

```
-- extracted from rfc2128.txt
-- at Mon Nov 15 17:11:46 1999
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```
DIAL-CONTROL-MIB DEFINITIONS ::= BEGIN
```

```
IMPORTS
```

```
MODULE-IDENTITY,
NOTIFICATION-TYPE,
OBJECT-TYPE,
Unsigned32,
transmission
    FROM SNMPv2-SMI
TEXTUAL-CONVENTION,
DisplayString,
TimeStamp,
RowStatus
    FROM SNMPv2-TC
MODULE-COMPLIANCE,
OBJECT-GROUP,
NOTIFICATION-GROUP
    FROM SNMPv2-CONF
IANAifType
    FROM IANAifType-MIB
ifOperStatus,
ifIndex,
InterfaceIndex,
InterfaceIndexOrZero
    FROM IF-MIB;
```

```
dialControlMib MODULE-IDENTITY
```

```
LAST-UPDATED "9609231544Z" -- Sep 23, 1996 3:44:00 PM
ORGANIZATION "IETF ISDN Working Group"
CONTACT-INFO
```

```
"Guenter Roeck
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Phone: +1 408 527 3143
E-mail: groeck@cisco.com"
```

```
DESCRIPTION
```

```
"The MIB module to describe peer information for
demand access and possibly other kinds of interfaces."
```

```
-- 1.3.6.1.2.1.10.21 -- ::= { transmission 21 }
```

```
AbsoluteCounter32 ::= TEXTUAL-CONVENTION
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Represents a Counter32-like value that starts at zero,
does not decrease, and does not wrap. This may be used
only in situations where wrapping is not possible or
extremely unlikely. Should such a counter overflow,
it locks at the maxium value of 4,294,967,295.
```

```
The primary use of this type of counter is situations
where a counter value is to be recorded as history
and is thus no longer subject to reading for changing
values."
```

```
SYNTAX Unsigned32
```

```
-- Dial Control Mib objects definitions
```

```
dialControlMibObjects OBJECT IDENTIFIER
```

```
-- 1.3.6.1.2.1.10.21.1 -- ::= { dialControlMib 1 }
-- General configuration group
```

```
dialCtlConfiguration OBJECT IDENTIFIER
```

```
-- 1.3.6.1.2.1.10.21.1.1 -- ::= { dialControlMibObjects 1 }
-- general configuration data/parameters
```

```

dialCtlAcceptMode OBJECT-TYPE
    SYNTAX      INTEGER {
                acceptNone(1),
                acceptAll(2),
                acceptKnown(3) }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The security level for acceptance of incoming calls.
        acceptNone(1) - incoming calls will not be accepted
        acceptAll(2)  - incoming calls will be accepted,
                       even if there is no matching entry
                       in the dialCtlPeerCfgTable
        acceptKnown(3) - incoming calls will be accepted only
                       if there is a matching entry in the
                       dialCtlPeerCfgTable
        "
    -- 1.3.6.1.2.1.10.21.1.1.1 -- ::= { dialCtlConfiguration 1 }

```

```

dialCtlTrapEnable OBJECT-TYPE
    SYNTAX      INTEGER {
                enabled(1),
                disabled(2) }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This object indicates whether dialCtlPeerCallInformation
        and dialCtlPeerCallSetup traps should be generated for
        all peers. If the value of this object is enabled(1),
        traps will be generated for all peers. If the value
        of this object is disabled(2), traps will be generated
        only for peers having dialCtlPeerCfgTrapEnable set
        to enabled(1)."
    DEFVAL      { disabled }
    -- 1.3.6.1.2.1.10.21.1.1.2 -- ::= { dialCtlConfiguration 2 }
-- Peer group

```

```

dialCtlPeer OBJECT IDENTIFIER
    -- 1.3.6.1.2.1.10.21.1.2 -- ::= { dialControlMibObjects 2 }
-- peer configuration table

```

```

dialCtlPeerCfgTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DialCtlPeerCfgEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The list of peers from which the managed device
        will accept calls or to which it will place them."
    -- 1.3.6.1.2.1.10.21.1.2.1 -- ::= { dialCtlPeer 1 }

```

```

dialCtlPeerCfgEntry OBJECT-TYPE
    SYNTAX      DialCtlPeerCfgEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Configuration data for a single Peer. This entry is
        effectively permanent, and contains information
        to identify the peer, how to connect to the peer,
        how to identify the peer and its permissions.
        The value of dialCtlPeerCfgOriginateAddress must be
        specified before a new row in this table can become
        active(1). Any writeable parameters in an existing entry
        can be modified while the entry is active. The modification
        will take effect when the peer in question will be
        called the next time.
        An entry in this table can only be created if the
        associated ifEntry already exists."
    INDEX      {

```

```

        dialCtlPeerCfgId,
        ifIndex
    }
-- 1.3.6.1.2.1.10.21.1.2.1.1 -- ::= { dialCtlPeerCfgTable 1 }

DialCtlPeerCfgEntry ::= SEQUENCE {
    dialCtlPeerCfgId          INTEGER,
    dialCtlPeerCfgIfType     IANAifType,
    dialCtlPeerCfgLowerIf    InterfaceIndexOrZero,
    dialCtlPeerCfgOriginateAddress DisplayString,
    dialCtlPeerCfgAnswerAddress DisplayString,
    dialCtlPeerCfgSubAddress  DisplayString,
    dialCtlPeerCfgClosedUserGroup DisplayString,
    dialCtlPeerCfgSpeed       INTEGER,
    dialCtlPeerCfgInfoType    INTEGER,
    dialCtlPeerCfgPermission  INTEGER,
    dialCtlPeerCfgInactivityTimer INTEGER,
    dialCtlPeerCfgMinDuration INTEGER,
    dialCtlPeerCfgMaxDuration INTEGER,
    dialCtlPeerCfgCarrierDelay INTEGER,
    dialCtlPeerCfgCallRetries INTEGER,
    dialCtlPeerCfgRetryDelay  INTEGER,
    dialCtlPeerCfgFailureDelay INTEGER,
    dialCtlPeerCfgTrapEnable  INTEGER,
    dialCtlPeerCfgStatus      RowStatus
}

dialCtlPeerCfgId OBJECT-TYPE
    SYNTAX      INTEGER (1..2147483647)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This object identifies a single peer. There may
        be several entries in this table for one peer,
        defining different ways of reaching this peer.
        Thus, there may be several entries in this table
        with the same value of dialCtlPeerCfgId.
        Multiple entries for one peer may be used to support
        multilink as well as backup lines.
        A single peer will be identified by a unique value
        of this object. Several entries for one peer MUST
        have the same value of dialCtlPeerCfgId, but different
        ifEntries and thus different values of ifIndex."
-- 1.3.6.1.2.1.10.21.1.2.1.1.1 -- ::= { dialCtlPeerCfgEntry 1 }

```

```

dialCtlPeerCfgIfType OBJECT-TYPE
    SYNTAX      IANAifType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The interface type to be used for calling this peer.
        In case of ISDN, the value of isdn(63) is to be used."
    DEFVAL     { other }
-- 1.3.6.1.2.1.10.21.1.2.1.1.2 -- ::= { dialCtlPeerCfgEntry 2 }

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dialCtlPeerCfgLowerIf OBJECT-TYPE
    SYNTAX      InterfaceIndexOrZero
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "ifIndex value of an interface the peer will have to be
        called on. For example, on an ISDN interface, this can be
        the ifIndex value of a D channel or the ifIndex value of a
        B channel, whatever is appropriate for a given peer.
        As an example, for Basic Rate leased lines it will be
        necessary to specify a B channel ifIndex, while for
        semi-permanent connections the D channel ifIndex has
        to be specified."

```

If the interface can be dynamically assigned, this object has a value of zero."

DEFVAL { 0 }

-- 1.3.6.1.2.1.10.21.1.2.1.1.3 -- ::= { dialCtlPeerCfgEntry 3 }

dialCtlPeerCfgOriginateAddress OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Call Address at which the peer will be called. Think of this as the set of characters following 'ATDT ' or the 'phone number' included in a D channel call request.

The structure of this information will be switch type specific. If there is no address information required for reaching the peer, i.e., for leased lines, this object will be a zero length string."

-- 1.3.6.1.2.1.10.21.1.2.1.1.4 -- ::= { dialCtlPeerCfgEntry 4 }

dialCtlPeerCfgAnswerAddress OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Calling Party Number information element, as for example passed in an ISDN SETUP message by a PBX or switch, for incoming calls.

This address can be used to identify the peer. If this address is either unknown or identical to dialCtlPeerCfgOriginateAddress, this object will be a zero length string."

DEFVAL { "" }

-- 1.3.6.1.2.1.10.21.1.2.1.1.5 -- ::= { dialCtlPeerCfgEntry 5 }

dialCtlPeerCfgSubAddress OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Subaddress at which the peer will be called. If the subaddress is undefined for the given media or unused, this is a zero length string."

DEFVAL { "" }

-- 1.3.6.1.2.1.10.21.1.2.1.1.6 -- ::= { dialCtlPeerCfgEntry 6 }

dialCtlPeerCfgClosedUserGroup OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Closed User Group at which the peer will be called. If the Closed User Group is undefined for the given media or unused, this is a zero length string."

REFERENCE "Q.931, chapter 4.6.1."

DEFVAL { "" }

-- 1.3.6.1.2.1.10.21.1.2.1.1.7 -- ::= { dialCtlPeerCfgEntry 7 }

dialCtlPeerCfgSpeed OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The desired information transfer speed in bits/second when calling this peer. The detailed media specific information, e.g. information type and information transfer rate for ISDN circuits, has to be extracted from this object. If the transfer speed to be used is unknown or the default

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        speed for this type of interfaces, the value of this object
        may be zero."
    DEFVAL { 0 }
-- 1.3.6.1.2.1.10.21.1.2.1.1.8 -- ::= { dialCtlPeerCfgEntry 8 }

dialCtlPeerCfgInfoType OBJECT-TYPE
    SYNTAX INTEGER {
        other(1),
        speech(2),
        unrestrictedDigital(3),           -- 64k/s data
        unrestrictedDigital56(4),        -- with 56k rate adaption
        restrictedDigital(5),
        audio31(6),                       -- 3.1 kHz audio
        audio7(7),                        -- 7 kHz audio
        video(8),
        packetSwitched(9),
        fax(10) }
    MAX-ACCESS read-create
    STATUS current
    DESCRIPTION
        "The Information Transfer Capability to be used when
        calling this peer.

        speech(2) refers to a non-data connection, whereas
        audio31(6) and audio7(7) refer to data mode
        connections."
    DEFVAL { other }
-- 1.3.6.1.2.1.10.21.1.2.1.1.9 -- ::= { dialCtlPeerCfgEntry 9 }

dialCtlPeerCfgPermission OBJECT-TYPE
    SYNTAX INTEGER {
        originate(1),
        answer(2),
        both(3),                          -- both originate & answer
        callback(4),
        none(5) }
    MAX-ACCESS read-create
    STATUS current
    DESCRIPTION
        "Applicable permissions. callback(4) either rejects the
        call and then calls back, or uses the 'Reverse charging'
        information element if it is available.
        Note that callback(4) is supposed to control charging, not
        security, and applies to callback prior to accepting a
        call. Callback for security reasons can be handled using
        PPP callback."
    DEFVAL { both }
-- 1.3.6.1.2.1.10.21.1.2.1.1.10 -- ::= { dialCtlPeerCfgEntry 10 }

dialCtlPeerCfgInactivityTimer OBJECT-TYPE
    SYNTAX INTEGER (0..2147483647)
    UNITS "seconds"
    MAX-ACCESS read-create
    STATUS current
    DESCRIPTION
        "The connection will be automatically disconnected
        if no longer carrying useful data for a time
        period, in seconds, specified in this object.
        Useful data in this context refers to forwarding
        packets, including routing information; it
        excludes the encapsulator maintenance frames.
        A value of zero means the connection will not be
        automatically taken down due to inactivity,
        which implies that it is a dedicated circuit."
    DEFVAL { 0 }
-- 1.3.6.1.2.1.10.21.1.2.1.1.11 -- ::= { dialCtlPeerCfgEntry 11 }

dialCtlPeerCfgMinDuration OBJECT-TYPE
    SYNTAX INTEGER (0..2147483647)

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MAX-ACCESS    read-create
STATUS        current
DESCRIPTION
    "Minimum duration of a call in seconds, starting from the
    time the call is connected until the call is disconnected.
    This is to accomplish the fact that in most countries
    charging applies to units of time, which should be matched
    as closely as possible."
DEFVAL        { 0 }
-- 1.3.6.1.2.1.10.21.1.2.1.1.12 -- ::= { dialCtlPeerCfgEntry 12 }

dialCtlPeerCfgMaxDuration OBJECT-TYPE
SYNTAX        INTEGER (0..2147483647)
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION
    "Maximum call duration in seconds. Zero means 'unlimited'."
DEFVAL        { 0 }
-- 1.3.6.1.2.1.10.21.1.2.1.1.13 -- ::= { dialCtlPeerCfgEntry 13 }

dialCtlPeerCfgCarrierDelay OBJECT-TYPE
SYNTAX        INTEGER (0..2147483647)
UNITS         "seconds"
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION
    "The call timeout time in seconds. The default value
    of zero means that the call timeout as specified for
    the media in question will apply."
DEFVAL        { 0 }
-- 1.3.6.1.2.1.10.21.1.2.1.1.14 -- ::= { dialCtlPeerCfgEntry 14 }

dialCtlPeerCfgCallRetries OBJECT-TYPE
SYNTAX        INTEGER (0..2147483647)
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION
    "The number of calls to a non-responding address
    that may be made. A retry count of zero means
    there is no bound. The intent is to bound
    the number of successive calls to an address
    which is inaccessible, or which refuses those calls.

    Some countries regulate the number of call retries
    to a given peer that can be made."
DEFVAL        { 0 }
-- 1.3.6.1.2.1.10.21.1.2.1.1.15 -- ::= { dialCtlPeerCfgEntry 15 }

dialCtlPeerCfgRetryDelay OBJECT-TYPE
SYNTAX        INTEGER (0..2147483647)
UNITS         "seconds"
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION
    "The time in seconds between call retries if a peer
    cannot be reached.
    A value of zero means that call retries may be done
    without any delay."
DEFVAL        { 0 }
-- 1.3.6.1.2.1.10.21.1.2.1.1.16 -- ::= { dialCtlPeerCfgEntry 16 }

dialCtlPeerCfgFailureDelay OBJECT-TYPE
SYNTAX        INTEGER (0..2147483647)
UNITS         "seconds"
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION
    "The time in seconds after which call attempts are
    to be placed again after a peer has been noticed

```

to be unreachable, i.e. after dialCtlPeerCfgCallRetries unsuccessful call attempts.

A value of zero means that a peer will not be called again after dialCtlPeerCfgCallRetries unsuccessful call attempts."

DEFVAL { 0 }

-- 1.3.6.1.2.1.10.21.1.2.1.1.17 -- ::= { dialCtlPeerCfgEntry 17 }

dialCtlPeerCfgTrapEnable OBJECT-TYPE

SYNTAX INTEGER {
enabled(1),
disabled(2) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates whether dialCtlPeerCallInformation and dialCtlPeerCallSetup traps should be generated for this peer."

DEFVAL { disabled }

-- 1.3.6.1.2.1.10.21.1.2.1.1.18 -- ::= { dialCtlPeerCfgEntry 18 }

dialCtlPeerCfgStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Status of one row in this table."

-- 1.3.6.1.2.1.10.21.1.2.1.1.19 -- ::= { dialCtlPeerCfgEntry 19 }

-- Peer statistics table

dialCtlPeerStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF DialCtlPeerStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Statistics information for each peer entry. There will be one entry in this table for each entry in the dialCtlPeerCfgTable."

-- 1.3.6.1.2.1.10.21.1.2.2 -- ::= { dialCtlPeer 2 }

dialCtlPeerStatsEntry OBJECT-TYPE

SYNTAX DialCtlPeerStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Statistics information for a single Peer. This entry is effectively permanent, and contains information describing the last call attempt as well as supplying statistical information."

AUGMENTS {
dialCtlPeerCfgEntry
}

-- 1.3.6.1.2.1.10.21.1.2.2.1 -- ::= { dialCtlPeerStatsTable 1 }

DialCtlPeerStatsEntry ::= SEQUENCE {

dialCtlPeerStatsConnectTime AbsoluteCounter32,
dialCtlPeerStatsChargedUnits AbsoluteCounter32,
dialCtlPeerStatsSuccessCalls AbsoluteCounter32,
dialCtlPeerStatsFailCalls AbsoluteCounter32,
dialCtlPeerStatsAcceptCalls AbsoluteCounter32,
dialCtlPeerStatsRefuseCalls AbsoluteCounter32,
dialCtlPeerStatsLastDisconnectCause OCTET STRING,
dialCtlPeerStatsLastDisconnectText DisplayString,
dialCtlPeerStatsLastSetupTime TimeStamp

}

dialCtlPeerStatsConnectTime OBJECT-TYPE

SYNTAX AbsoluteCounter32

```

UNITS          "seconds"
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
    "Accumulated connect time to the peer since system startup.
    This is the total connect time, i.e. the connect time
    for outgoing calls plus the time for incoming calls."
-- 1.3.6.1.2.1.10.21.1.2.2.1.1 -- ::= { dialCtlPeerStatsEntry 1 }

dialCtlPeerStatsChargedUnits OBJECT-TYPE
    SYNTAX      AbsoluteCounter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The total number of charging units applying to this
        peer since system startup.
        Only the charging units applying to the local interface,
        i.e. for originated calls or for calls with 'Reverse
        charging' being active, will be counted here."
-- 1.3.6.1.2.1.10.21.1.2.2.1.2 -- ::= { dialCtlPeerStatsEntry 2 }

dialCtlPeerStatsSuccessCalls OBJECT-TYPE
    SYNTAX      AbsoluteCounter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of completed calls to this peer."
-- 1.3.6.1.2.1.10.21.1.2.2.1.3 -- ::= { dialCtlPeerStatsEntry 3 }

dialCtlPeerStatsFailCalls OBJECT-TYPE
    SYNTAX      AbsoluteCounter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of failed call attempts to this peer since system
        startup."
-- 1.3.6.1.2.1.10.21.1.2.2.1.4 -- ::= { dialCtlPeerStatsEntry 4 }

dialCtlPeerStatsAcceptCalls OBJECT-TYPE
    SYNTAX      AbsoluteCounter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of calls from this peer accepted since system
        startup."
-- 1.3.6.1.2.1.10.21.1.2.2.1.5 -- ::= { dialCtlPeerStatsEntry 5 }

dialCtlPeerStatsRefuseCalls OBJECT-TYPE
    SYNTAX      AbsoluteCounter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of calls from this peer refused since system
        startup."
-- 1.3.6.1.2.1.10.21.1.2.2.1.6 -- ::= { dialCtlPeerStatsEntry 6 }

dialCtlPeerStatsLastDisconnectCause OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE (0..4))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The encoded network cause value associated with the last
        call.
        This object will be updated whenever a call is started
        or cleared.
        The value of this object will depend on the interface type
        as well as on the protocol and protocol version being
        used on this interface. Some references for possible cause
        values are given below."

```

REFERENCE

- Bellcore SR-NWT-001953, Generic Guidelines for ISDN Terminal Equipment On Basic Access Interfaces, chapter 5.2.5.8.
- Bellcore SR-NWT-002343, ISDN Primary Rate Interface Generic Guidelines for Customer Premises Equipment, chapter 8.2.5.8.
- ITU-T Q.931, Appendix I.
- ITU-T X.25, CAUSE and DIAGNOSTIC field values.
- German Telekom FTZ 1TR6, chapter 3.2.3.4.4.4."

```
-- 1.3.6.1.2.1.10.21.1.2.2.1.7 -- ::= { dialCtlPeerStatsEntry 7 }
```

dialCtlPeerStatsLastDisconnectText OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"ASCII text describing the reason for the last call termination.

This object exists because it would be impossible for a management station to store all possible cause values for all types of interfaces. It should be used only if a management station is unable to decode the value of dialCtlPeerStatsLastDisconnectCause.

This object will be updated whenever a call is started or cleared."

```
-- 1.3.6.1.2.1.10.21.1.2.2.1.8 -- ::= { dialCtlPeerStatsEntry 8 }
```

dialCtlPeerStatsLastSetupTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when the last call to this peer was started.

For ISDN media, this will be the time when the setup message was received from or sent to the network.

This object will be updated whenever a call is started or cleared."

```
-- 1.3.6.1.2.1.10.21.1.2.2.1.9 -- ::= { dialCtlPeerStatsEntry 9 }
```

```
--
-- the active call group
--
```

callActive OBJECT IDENTIFIER

```
-- 1.3.6.1.2.1.10.21.1.3 -- ::= { dialControlMibObjects 3 }
```

```
-- callActiveTable
```

```
-- Table to store active call information.
```

```
-- These calls could be circuit switched or they could
-- be virtual circuits.
```

```
-- An entry will be created when a call is started and deleted
-- when a call is cleared.
```

callActiveTable OBJECT-TYPE

SYNTAX SEQUENCE OF CallActiveEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing information about active calls to a specific destination."

```
-- 1.3.6.1.2.1.10.21.1.3.1 -- ::= { callActive 1 }
```

callActiveEntry OBJECT-TYPE

SYNTAX CallActiveEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The information regarding a single active Connection. An entry in this table will be created when a call is

```

        started. An entry in this table will be deleted when
        an active call clears."
INDEX {
    callActiveSetupTime,
    callActiveIndex
}
-- 1.3.6.1.2.1.10.21.1.3.1.1 -- ::= { callActiveTable 1 }

CallActiveEntry ::= SEQUENCE {
    callActiveSetupTime      TimeStamp,
    callActiveIndex          INTEGER,
    callActivePeerAddress    DisplayString,
    callActivePeerSubAddress DisplayString,
    callActivePeerId         INTEGER,
    callActivePeerIfIndex    INTEGER,
    callActiveLogicalIfIndex InterfaceIndexOrZero,
    callActiveConnectTime    TimeStamp,
    callActiveCallState      INTEGER,
    callActiveCallOrigin     INTEGER,
    callActiveChargedUnits   AbsoluteCounter32,
    callActiveInfoType       INTEGER,
    callActiveTransmitPackets AbsoluteCounter32,
    callActiveTransmitBytes  AbsoluteCounter32,
    callActiveReceivePackets AbsoluteCounter32,
    callActiveReceiveBytes   AbsoluteCounter32
}

callActiveSetupTime OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The value of sysUpTime when the call associated to this
        entry was started. This will be useful for an NMS to
        retrieve all calls after a specific time. Also, this object
        can be useful in finding large delays between the time the
        call was started and the time the call was connected.
        For ISDN media, this will be the time when the setup
        message was received from or sent to the network."
-- 1.3.6.1.2.1.10.21.1.3.1.1.1 -- ::= { callActiveEntry 1 }

callActiveIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..2147483647)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Small index variable to distinguish calls that start in
        the same hundredth of a second."
-- 1.3.6.1.2.1.10.21.1.3.1.1.2 -- ::= { callActiveEntry 2 }

callActivePeerAddress OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number this call is connected to. If the number is
        not available, then it will have a length of zero."
-- 1.3.6.1.2.1.10.21.1.3.1.1.3 -- ::= { callActiveEntry 3 }

callActivePeerSubAddress OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The subaddress this call is connected to. If the subaddress
        is undefined or not available, this will be a zero length
        string."
-- 1.3.6.1.2.1.10.21.1.3.1.1.4 -- ::= { callActiveEntry 4 }

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callActivePeerId OBJECT-TYPE
    SYNTAX          INTEGER (0..2147483647)
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "This is the Id value of the peer table entry
        to which this call was made. If a peer table entry
        for this call does not exist or is unknown, the value
        of this object will be zero."
-- 1.3.6.1.2.1.10.21.1.3.1.1.5 -- ::= { callActiveEntry 5 }

callActivePeerIfIndex OBJECT-TYPE
    SYNTAX          INTEGER (0..2147483647)
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "This is the ifIndex value of the peer table entry
        to which this call was made. If a peer table entry
        for this call does not exist or is unknown, the value
        of this object will be zero."
-- 1.3.6.1.2.1.10.21.1.3.1.1.6 -- ::= { callActiveEntry 6 }

callActiveLogicalIfIndex OBJECT-TYPE
    SYNTAX          InterfaceIndexOrZero
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "This is the ifIndex value of the logical interface through
        which this call was made. For ISDN media, this would be
        the ifIndex of the B channel which was used for this call.
        If the ifIndex value is unknown, the value of this object
        will be zero."
-- 1.3.6.1.2.1.10.21.1.3.1.1.7 -- ::= { callActiveEntry 7 }

callActiveConnectTime OBJECT-TYPE
    SYNTAX          TimeStamp
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "The value of sysUpTime when the call was connected.
        If the call is not connected, this object will have a
        value of zero."
-- 1.3.6.1.2.1.10.21.1.3.1.1.8 -- ::= { callActiveEntry 8 }

callActiveCallState OBJECT-TYPE
    SYNTAX          INTEGER {
                        unknown(1),
                        connecting(2),
                        connected(3),
                        active(4) }
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "The current call state.
        unknown(1)      - The call state is unknown.
        connecting(2)   - A connection attempt (outgoing call)
                        is being made.
        connected(3)    - An incoming call is in the process
                        of validation.
        active(4)       - The call is active.
        "
-- 1.3.6.1.2.1.10.21.1.3.1.1.9 -- ::= { callActiveEntry 9 }

callActiveCallOrigin OBJECT-TYPE
    SYNTAX          INTEGER {
                        originate(1),
                        answer(2),
                        callback(3) }

```

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The call origin."
-- 1.3.6.1.2.1.10.21.1.3.1.1.10 -- ::= { callActiveEntry 10 }

callActiveChargedUnits OBJECT-TYPE
SYNTAX AbsoluteCounter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of charged units for this connection.
    For incoming calls or if charging information is
    not supplied by the switch, the value of this object
    will be zero."
-- 1.3.6.1.2.1.10.21.1.3.1.1.11 -- ::= { callActiveEntry 11 }

callActiveInfoType OBJECT-TYPE
SYNTAX INTEGER {
    other(1), -- e.g. for non-isdn media
    speech(2),
    unrestrictedDigital(3), -- 64k/s data
    unrestrictedDigital56(4), -- with 56k rate adaption
    restrictedDigital(5),
    audio31(6), -- 3.1 kHz audio
    audio7(7), -- 7 kHz audio
    video(8),
    packetSwitched(9),
    fax(10) }
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The information type for this call."
-- 1.3.6.1.2.1.10.21.1.3.1.1.12 -- ::= { callActiveEntry 12 }

callActiveTransmitPackets OBJECT-TYPE
SYNTAX AbsoluteCounter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of packets which were transmitted for this
    call."
-- 1.3.6.1.2.1.10.21.1.3.1.1.13 -- ::= { callActiveEntry 13 }

callActiveTransmitBytes OBJECT-TYPE
SYNTAX AbsoluteCounter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of bytes which were transmitted for this
    call."
-- 1.3.6.1.2.1.10.21.1.3.1.1.14 -- ::= { callActiveEntry 14 }

callActiveReceivePackets OBJECT-TYPE
SYNTAX AbsoluteCounter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of packets which were received for this
    call."
-- 1.3.6.1.2.1.10.21.1.3.1.1.15 -- ::= { callActiveEntry 15 }

callActiveReceiveBytes OBJECT-TYPE
SYNTAX AbsoluteCounter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of bytes which were received for this call."
-- 1.3.6.1.2.1.10.21.1.3.1.1.16 -- ::= { callActiveEntry 16 }

```

```

--
-- the call history group
--

callHistory OBJECT IDENTIFIER
-- 1.3.6.1.2.1.10.21.1.4 -- ::= { dialControlMibObjects 4 }

callHistoryTableMaxLength OBJECT-TYPE
SYNTAX      INTEGER (0..2147483647)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "The upper limit on the number of entries that the
    callHistoryTable may contain. A value of 0
    will prevent any history from being retained. When
    this table is full, the oldest entry will be deleted
    and the new one will be created."
-- 1.3.6.1.2.1.10.21.1.4.1 -- ::= { callHistory 1 }

callHistoryRetainTimer OBJECT-TYPE
SYNTAX      INTEGER (0..2147483647)
UNITS       "minutes"
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "The minimum amount of time that an callHistoryEntry
    will be maintained before being deleted. A value of
    0 will prevent any history from being retained in the
    callHistoryTable, but will neither prevent callCompletion
    traps being generated nor affect other tables."
-- 1.3.6.1.2.1.10.21.1.4.2 -- ::= { callHistory 2 }
-- callHistoryTable
-- Table to store the past call information. The Destination number
-- and the call connect and disconnect time, the disconnection cause
-- are stored. These calls could be circuit switched or they could
-- be virtual circuits. History of each and every call is stored,
-- of successful calls as well as of unsuccessful and rejected calls.
-- An entry will be created when a call is cleared.

callHistoryTable OBJECT-TYPE
SYNTAX      SEQUENCE OF CallHistoryEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "A table containing information about specific
    calls to a specific destination."
-- 1.3.6.1.2.1.10.21.1.4.3 -- ::= { callHistory 3 }

callHistoryEntry OBJECT-TYPE
SYNTAX      CallHistoryEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "The information regarding a single Connection."
INDEX {
    callActiveSetupTime,
    callActiveIndex
}
-- 1.3.6.1.2.1.10.21.1.4.3.1 -- ::= { callHistoryTable 1 }

CallHistoryEntry ::= SEQUENCE {
    callHistoryPeerAddress      DisplayString,
    callHistoryPeerSubAddress   DisplayString,
    callHistoryPeerId           INTEGER,
    callHistoryPeerIfIndex      INTEGER,
    callHistoryLogicalIfIndex   InterfaceIndex,
    callHistoryDisconnectCause  OCTET STRING,
    callHistoryDisconnectText   DisplayString,
    callHistoryConnectTime      TimeStamp,

```

```

callHistoryDisconnectTime  TimeStamp,
callHistoryCallOrigin      INTEGER,
callHistoryChargedUnits    AbsoluteCounter32,
callHistoryInfoType        INTEGER,
callHistoryTransmitPackets AbsoluteCounter32,
callHistoryTransmitBytes   AbsoluteCounter32,
callHistoryReceivePackets  AbsoluteCounter32,
callHistoryReceiveBytes    AbsoluteCounter32
}

```

callHistoryPeerAddress OBJECT-TYPE

```

SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION

```

"The number this call was connected to. If the number is not available, then it will have a length of zero."

```
-- 1.3.6.1.2.1.10.21.1.4.3.1.1 -- ::= { callHistoryEntry 1 }
```

callHistoryPeerSubAddress OBJECT-TYPE

```

SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION

```

"The subaddress this call was connected to. If the subaddress is undefined or not available, this will be a zero length string."

```
-- 1.3.6.1.2.1.10.21.1.4.3.1.2 -- ::= { callHistoryEntry 2 }
```

callHistoryPeerId OBJECT-TYPE

```

SYNTAX      INTEGER (0..2147483647)
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION

```

"This is the Id value of the peer table entry to which this call was made. If a peer table entry for this call does not exist, the value of this object will be zero."

```
-- 1.3.6.1.2.1.10.21.1.4.3.1.3 -- ::= { callHistoryEntry 3 }
```

callHistoryPeerIfIndex OBJECT-TYPE

```

SYNTAX      INTEGER (0..2147483647)
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION

```

"This is the ifIndex value of the peer table entry to which this call was made. If a peer table entry for this call does not exist, the value of this object will be zero."

```
-- 1.3.6.1.2.1.10.21.1.4.3.1.4 -- ::= { callHistoryEntry 4 }
```

callHistoryLogicalIfIndex OBJECT-TYPE

```

SYNTAX      InterfaceIndex
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION

```

"This is the ifIndex value of the logical interface through which this call was made. For ISDN media, this would be the ifIndex of the B channel which was used for this call."

```
-- 1.3.6.1.2.1.10.21.1.4.3.1.5 -- ::= { callHistoryEntry 5 }
```

callHistoryDisconnectCause OBJECT-TYPE

```

SYNTAX      OCTET STRING (SIZE (0..4))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION

```

"The encoded network cause value associated with this call."

The value of this object will depend on the interface type as well as on the protocol and protocol version being used on this interface. Some references for possible cause values are given below."

REFERENCE "- Bellcore SR-NWT-001953, Generic Guidelines for ISDN Terminal Equipment On Basic Access Interfaces, chapter 5.2.5.8.
- Bellcore SR-NWT-002343, ISDN Primary Rate Interface Generic Guidelines for Customer Premises Equipment, chapter 8.2.5.8.
- ITU-T Q.931, Appendix I.
- ITU-T X.25, CAUSE and DIAGNOSTIC field values.
- German Telekom FTZ 1TR6, chapter 3.2.3.4.4.4."
-- 1.3.6.1.2.1.10.21.1.4.3.1.6 -- ::= { callHistoryEntry 6 }

callHistoryDisconnectText OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"ASCII text describing the reason for call termination.

This object exists because it would be impossible for a management station to store all possible cause values for all types of interfaces. It should be used only if a management station is unable to decode the value of dialCtlPeerStatsLastDisconnectCause."

-- 1.3.6.1.2.1.10.21.1.4.3.1.7 -- ::= { callHistoryEntry 7 }

callHistoryConnectTime OBJECT-TYPE

SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"The value of sysUpTime when the call was connected."

-- 1.3.6.1.2.1.10.21.1.4.3.1.8 -- ::= { callHistoryEntry 8 }

callHistoryDisconnectTime OBJECT-TYPE

SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"The value of sysUpTime when the call was disconnected."

-- 1.3.6.1.2.1.10.21.1.4.3.1.9 -- ::= { callHistoryEntry 9 }

callHistoryCallOrigin OBJECT-TYPE

SYNTAX **INTEGER** {
 originate(1),
 answer(2),
 callback(3) }

MAX-ACCESS read-only
STATUS current

DESCRIPTION

"The call origin."

-- 1.3.6.1.2.1.10.21.1.4.3.1.10 -- ::= { callHistoryEntry 10 }

callHistoryChargedUnits OBJECT-TYPE

SYNTAX AbsoluteCounter32
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"The number of charged units for this connection. For incoming calls or if charging information is not supplied by the switch, the value of this object will be zero."

-- 1.3.6.1.2.1.10.21.1.4.3.1.11 -- ::= { callHistoryEntry 11 }

callHistoryInfoType OBJECT-TYPE

SYNTAX **INTEGER** {

```

        other(1),           -- e.g. for non-isdn media
        speech(2),
        unrestrictedDigital(3), -- 64k/s data
        unrestrictedDigital56(4), -- with 56k rate adaption
        restrictedDigital(5),
        audio31(6),        -- 3.1 kHz audio
        audio7(7),         -- 7 kHz audio
        video(8),
        packetSwitched(9),
        fax(10) }

MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The information type for this call."
-- 1.3.6.1.2.1.10.21.1.4.3.1.12 -- ::= { callHistoryEntry 12 }

callHistoryTransmitPackets OBJECT-TYPE
SYNTAX AbsoluteCounter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of packets which were transmitted while this
    call was active."
-- 1.3.6.1.2.1.10.21.1.4.3.1.13 -- ::= { callHistoryEntry 13 }

callHistoryTransmitBytes OBJECT-TYPE
SYNTAX AbsoluteCounter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of bytes which were transmitted while this
    call was active."
-- 1.3.6.1.2.1.10.21.1.4.3.1.14 -- ::= { callHistoryEntry 14 }

callHistoryReceivePackets OBJECT-TYPE
SYNTAX AbsoluteCounter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of packets which were received while this
    call was active."
-- 1.3.6.1.2.1.10.21.1.4.3.1.15 -- ::= { callHistoryEntry 15 }

callHistoryReceiveBytes OBJECT-TYPE
SYNTAX AbsoluteCounter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of bytes which were received while this
    call was active."
-- 1.3.6.1.2.1.10.21.1.4.3.1.16 -- ::= { callHistoryEntry 16 }
-- Traps related to Connection management

dialControlMibTrapPrefix OBJECT IDENTIFIER
-- 1.3.6.1.2.1.10.21.2 -- ::= { dialControlMib 2 }

dialControlMibTraps OBJECT IDENTIFIER
-- 1.3.6.1.2.1.10.21.2.0 -- ::= { dialControlMibTrapPrefix 0 }

dialCtlPeerCallInformation NOTIFICATION-TYPE
OBJECTS {
    callHistoryPeerId,
    callHistoryPeerIfIndex,
    callHistoryLogicalIfIndex,
    ifOperStatus,
    callHistoryPeerAddress,
    callHistoryPeerSubAddress,
    callHistoryDisconnectCause,
    callHistoryConnectTime,

```

```

        callHistoryDisconnectTime,
        callHistoryInfoType,
        callHistoryCallOrigin
    }
    STATUS          current
    DESCRIPTION
        "This trap/inform is sent to the manager whenever
        a successful call clears, or a failed call attempt
        is determined to have ultimately failed. In the
        event that call retry is active, then this is after
        all retry attempts have failed. However, only one such
        trap is sent in between successful call attempts;
        subsequent call attempts result in no trap.
        ifOperStatus will return the operational status of the
        virtual interface associated with the peer to whom
        this call was made to."
-- 1.3.6.1.2.1.10.21.2.0.1 -- ::= { dialControlMibTraps 1 }

dialCtlPeerCallSetup NOTIFICATION-TYPE
    OBJECTS {
        callActivePeerId,
        callActivePeerIfIndex,
        callActiveLogicalIfIndex,
        ifOperStatus,
        callActivePeerAddress,
        callActivePeerSubAddress,
        callActiveInfoType,
        callActiveCallOrigin
    }
    STATUS          current
    DESCRIPTION
        "This trap/inform is sent to the manager whenever
        a call setup message is received or sent.
        ifOperStatus will return the operational status of the
        virtual interface associated with the peer to whom
        this call was made to."
-- 1.3.6.1.2.1.10.21.2.0.2 -- ::= { dialControlMibTraps 2 }
-- conformance information

dialControlMibConformance OBJECT IDENTIFIER
-- 1.3.6.1.2.1.10.21.3 -- ::= { dialControlMib 3 }

dialControlMibCompliances OBJECT IDENTIFIER
-- 1.3.6.1.2.1.10.21.3.1 -- ::= { dialControlMibConformance 1 }

dialControlMibGroups OBJECT IDENTIFIER
-- 1.3.6.1.2.1.10.21.3.2 -- ::= { dialControlMibConformance 2 }
-- compliance statements

dialControlMibCompliance MODULE-COMPLIANCE
    STATUS          current
    DESCRIPTION
        "The compliance statement for entities which
        implement the DIAL CONTROL MIB"
    MODULE
    MANDATORY-GROUPS {
        dialControlGroup,
        callActiveGroup,
        callHistoryGroup,
        callNotificationsGroup
    }
-- 1.3.6.1.2.1.10.21.3.1.1 -- ::= { dialControlMibCompliances 1 }
-- units of conformance

dialControlGroup OBJECT-GROUP
    OBJECTS {
        dialCtlAcceptMode,
        dialCtlTrapEnable,
        dialCtlPeerCfgIfType,

```

```

    dialCtlPeerCfgLowerIf,
    dialCtlPeerCfgOriginateAddress,
    dialCtlPeerCfgAnswerAddress,
    dialCtlPeerCfgSubAddress,
    dialCtlPeerCfgClosedUserGroup,
    dialCtlPeerCfgSpeed,
    dialCtlPeerCfgInfoType,
    dialCtlPeerCfgPermission,
    dialCtlPeerCfgInactivityTimer,
    dialCtlPeerCfgMinDuration,
    dialCtlPeerCfgMaxDuration,
    dialCtlPeerCfgCarrierDelay,
    dialCtlPeerCfgCallRetries,
    dialCtlPeerCfgRetryDelay,
    dialCtlPeerCfgFailureDelay,
    dialCtlPeerCfgTrapEnable,
    dialCtlPeerCfgStatus,
    dialCtlPeerStatsConnectTime,
    dialCtlPeerStatsChargedUnits,
    dialCtlPeerStatsSuccessCalls,
    dialCtlPeerStatsFailCalls,
    dialCtlPeerStatsAcceptCalls,
    dialCtlPeerStatsRefuseCalls,
    dialCtlPeerStatsLastDisconnectCause,
    dialCtlPeerStatsLastDisconnectText,
    dialCtlPeerStatsLastSetupTime
}
STATUS current
DESCRIPTION
    "A collection of objects providing the DIAL CONTROL
    capability."
-- 1.3.6.1.2.1.10.21.3.2.1 -- ::= { dialControlMibGroups 1 }

callActiveGroup OBJECT-GROUP
OBJECTS {
    callActivePeerAddress,
    callActivePeerSubAddress,
    callActivePeerId,
    callActivePeerIfIndex,
    callActiveLogicalIfIndex,
    callActiveConnectTime,
    callActiveCallState,
    callActiveCallOrigin,
    callActiveChargedUnits,
    callActiveInfoType,
    callActiveTransmitPackets,
    callActiveTransmitBytes,
    callActiveReceivePackets,
    callActiveReceiveBytes
}
STATUS current
DESCRIPTION
    "A collection of objects providing the active call
    capability."
-- 1.3.6.1.2.1.10.21.3.2.2 -- ::= { dialControlMibGroups 2 }

callHistoryGroup OBJECT-GROUP
OBJECTS {
    callHistoryTableMaxLength,
    callHistoryRetainTimer,
    callHistoryPeerAddress,
    callHistoryPeerSubAddress,
    callHistoryPeerId,
    callHistoryPeerIfIndex,
    callHistoryLogicalIfIndex,
    callHistoryDisconnectCause,
    callHistoryDisconnectText,
    callHistoryConnectTime,
    callHistoryDisconnectTime,

```

```

        callHistoryCallOrigin,
        callHistoryChargedUnits,
        callHistoryInfoType,
        callHistoryTransmitPackets,
        callHistoryTransmitBytes,
        callHistoryReceivePackets,
        callHistoryReceiveBytes
    }
    STATUS          current
    DESCRIPTION
        "A collection of objects providing the Call History
        capability."
-- 1.3.6.1.2.1.10.21.3.2.3 -- ::= { dialControlMibGroups 3 }

callNotificationsGroup NOTIFICATION-GROUP
    NOTIFICATIONS {
        dialCtlPeerCallInformation,
        dialCtlPeerCallSetup
    }
    STATUS          current
    DESCRIPTION
        "The notifications which a Dial Control MIB entity is
        required to implement."
-- 1.3.6.1.2.1.10.21.3.2.4 -- ::= { dialControlMibGroups 4 }

END

```