<table>
<thead>
<tr>
<th>Project</th>
<th>IEEE 802.20 Working Group on Mobile Broadband Wireless Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Proposed Text for 802.20 Enhanced MIB Chapter – Wideband Mode</td>
</tr>
<tr>
<td>Date Submitted</td>
<td>2008-08-27</td>
</tr>
</tbody>
</table>
| Source(s) | Jim Tomcik  
Qualcomm Incorporated  
5775 Morehouse Drive  
San Diego, CA, 92121  
Voice: 858-658-3231  
Fax: 858-658-2113  
Email: jtomcik@qualcomm.com |
| Re: | IEEE 802.20 Enhanced MIB Chapter – Wideband Mode |
| Abstract | This contribution proposes a draft enhanced MIB chapter for IEEE 802.20 Wideband Mode. Enhancements include the use of REFERENCES clauses for read-create and read-only objects, SECURITY clauses for read-create objects, as requested during the 802.20 sponsor ballot. This contribution combines the materials submitted previously in C802.20-08/10 and C802.20-08/06 to produce a complete draft MIB chapter. |
| Purpose | For consideration and approval of 802.20. |
| Notice | This document has been prepared to assist the IEEE 802.20 Working Group. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. |
| Release | The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE’s name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE’s sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.20. |
17 MAC and PHY MIB

1.1 Overview

This chapter defines a Management Information Base (MIB) module for managing the MAC and PHY. For a detailed overview of the documents that describe the current Internet-Standard Management Framework, please refer to Section 7 of IETF RFC 3410.

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. MIB objects are generally accessed through the Simple Network Management Protocol (SNMP). Objects in the MIB are defined using the mechanisms specified in the Structure of Management Information (SMI). The MIB module specified here is compliant to the SMIv2, which is described in IETF STD 58, RFC 2578, RFC 2579, and RFC 2580.

1.2 MIB Structure

The MIB structure is based on the architecture reference model in Error! Reference source not found. and the layering architecture for the air interface in Error! Reference source not found.. The MIB object is composed of two groups:

- dot20An: This group contains managed objects defined for the access network.
- dot20Cmn: This group contains managed objects defined for the access network and the access terminal.

1.3 Security Considerations

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this section are to be interpreted as described in BCP 14, RFC 2119 [RFC2119].

This MIB relates to a system which will provide mobile broadband wireless access. As such, improper manipulation of the objects represented by this MIB may result in denial of service to a large number of end-users.

The MIB objects in the Dot20AnChannelBandsEntry SEQUENCE contain 8 objects used to set the frequency band of the transmitting base station. An administrator should take great care to include only authorized, licensed channel bands in the table. Failure to take these measures might cause a base station to violate local regulatory laws (e.g. FCC licensing in the USA) by transmitting power into unauthorized channels in the country where the base station is deployed.

The Dot20AnTransmitPower OBJECT sets the power for the base station in dBm. Unauthorized access to this object may allow an attacker to boost power and violate local regulatory laws (e.g.
FCC licensing in the USA) by transmitting excessive power into a licensed band. This may also lead to excessive sideband emissions in adjacent bands.

The Dot20AnNeighborListEntry SEQUENCE defines information about adjacent sectors that is broadcast by the overhead channels of a base station. Terminals functioning in any sector may read the overhead channels from other sectors, including those whose MIB may have become compromised or corrupted due to unauthorized access. Such terminals may therefore incorporate incorrect handoff information into their databases of potential sectors for handoff. Thus, unauthorized access of the MIB in one sector, can affect the performance and handoff characteristics of terminals operating correctly in adjacent sectors.

There are no MIB objects that could allow a user to increase their access rights to system service levels. None of the readable objects in this MIB module (i.e., objects with a MAX-ACCESS other than not-accessible) may be considered capable of revealing sensitive or vulnerable personal information. This MIB is not capable of revealing user information that could violate privacy laws.

There are no MIB objects that could be used to turn off or change the security parameter configuration of an 802.20 access node. The presence or absence of security (encryption, authentication) is controlled by the session state record for each individual user, and cannot be modified by an attacker accessing the MIB.

SNMP versions prior to SNMPv3 did not include adequate security. Even if the network itself is secure (for example by using IPsec), there is no control as to who on the secure network is allowed to access and GET/SET (read/change/create/delete) the objects in this MIB module.

It is RECOMMENDED that implementers consider the security features as provided by the SNMPv3 framework (see [RFC3410], section 8), including full support for the SNMPv3 cryptographic mechanisms (for authentication and privacy).

Further, deployment of SNMP versions prior to SNMPv3 is NOT RECOMMENDED. Instead, it is RECOMMENDED to deploy SNMPv3 and to enable cryptographic security. It is then a customer/operator responsibility to ensure that the SNMP entity giving access to an instance of this MIB module is properly configured to give access to the objects only to those principals (users) that have legitimate rights to indeed GET or SET (change/create/delete) them.

1.4 IANA Considerations

No IANA actions are required by this document.

1.5 Definition

IEEE802dot20-MIB DEFINITIONS ::= BEGIN IMPORTS

ifIndex
FROM IF-MIB

MODULE-COMPLIANCE, OBJECT-GROUP
FROM SNMPv2-CONF

Counter32, Counter64, Integer32, MODULE-IDENTITY, OBJECT-IDENTITY,
OBJECT-TYPE, transmission
FROM SNMPv2-SMI
RowPointer, RowStatus, TEXTUAL-CONVENTION, TruthValue
FROM SNMPv2-TC

ieee802dot20 MODULE-IDENTITY
LAST-UPDATED "200805301948Z" -- May 30, 2008
ORGANIZATION
"IEEE 802.20"
CONTACT-INFO
"Contact: IEEE 802.20 Working Group
Postal:
Tel:
Fax:
E-mail:"

DESCRIPTION
"The MIB module for IEEE 802.20 entities.
(The transmission oid used for this MIB needs to be updated
when a valid one is obtained from IANA along with the new
802.20 ifType)"
::= { transmission 9999 }

Dot20AnChannelBandsEntry ::= SEQUENCE
{
  dot20AnChannelBandIndex          Integer32,
dot20AnSystemType                 Integer32,
dot20AnBandClass                  Integer32,
dot20AnChannelNumber              Integer32,
dot20AnHalfDuplexSupported        TruthValue,
dot20AnReverseChannelBandClass    Integer32,
dot20AnReverseChannelNumber       Integer32,
dot20AnCyclicPrefixLength         Integer32,
dot20AnFFTSIZE                    Integer32,
dot20AnCBNumGuardSubcarriers      Integer32,
dot20AnChannelBandShortId         Integer32,
dot20AnChannelBandAccessHashMask  Integer32,
dot20AnChannelBandStatus          RowStatus
}

Dot20AnIdleStateStatsEntry ::= SEQUENCE
{
  dot20AnAccessAttemptCounts       Counter32,
dot20AnAccessAttemptFailCounts   Counter32,
dot20AnPageAttemptCounts         Counter32,
dot20AnPageFailureCounts         Counter32
}

Dot20AnNeighborListEntry ::= SEQUENCE
{
  dot20AnNeighborIndex             Integer32,
dot20AnNeighborSectorPointer     RowPointer,
dot20AnNeighborRowStatus         RowStatus
}

Dot20AnNeighborSectorsEntry ::= SEQUENCE
{
  dot20AnNeighborSectorIndex       Integer32,
dot20AnNeighborPilotID           Integer32,
dot20AnNeighborEffTransmitPower  Integer32,
dot20AnNeighborChannelBandRef    Integer32,
dot20AnNeighborChannelShortId    Integer32,
dot20AnNeighborSameANAsPrimSect TruthValue,
dot20AnNeighborSectorPilotGrpId  Integer32,
dot20AnNeighborSynchGroupID      Integer32,
Dot20AnOtherTechNghbrsEntry ::= SEQUENCE
  {
    dot20AnOtherTechnologyIndex    Integer32,
    dot20AnTechnologyType          Integer32,
    dot20AnTechNghbrListLength     Integer32,
    dot20AnTechnologyNeighborList  OCTET STRING,
    dot20AnOtherTechNghbrRowStatus RowStatus
  }

Dot20AnSecondaryRegZoneCodeEntry ::= SEQUENCE
  {
    dot20AnSecondaryRegZoneCodeIndex Integer32,
    dot20AnSecRegZoneCode            Integer32,
    dot20AnSecondaryRegZoneRowStatus RowStatus
  }

Dot20AnSectorCdmaSubSegEntry ::= SEQUENCE
  {
    dot20AnInterlaceId               Integer32,
    dot20AnCdmaSubSegmentNum         Integer32,
    dot20AnSectorCdmaSubSegRowStatus RowStatus
  }

Dot20AnSectorConfigEntry ::= SEQUENCE
  {
    dot20AnTotalNumSubcarriers      Integer32,
    dot20AnNumGuardSubcarriers      Integer32,
    dot20AnFlSubzoneSize            Integer32,
    dot20AnResourceChannelMuxMode   Integer32,
    dot20AnNumDRCHSubzones          Integer32,
    dot20AnFLReservedInterlaces     INTEGER,
    dot20AnNumFLReservedSubzones    Integer32,
    dot20AnCpichHoppingMode         Integer32,
    dot20AnNumEffectiveAntennas     Integer32,
    dot20AnResourceChannelMuxMode   Integer32,
    dot20AnMinScchResourceIndex     Integer32,
    dot20AnSinglePAForXCarriers     Integer32,
    dot20AnFlSdmaNumSubtrees        Integer32,
    dot20AnFDPICHCodeOffsetSubtrees Integer32,
    dot20AnFDPICHCodeOffsetSubtree0 Integer32,
    dot20AnFDPICHCodeOffsetSubtree1 Integer32,
    dot20AnFDPICHCodeOffsetSubtree2 Integer32,
    dot20AnFDPICHCodeOffsetSubtree3 Integer32,
    dot20AnNumCmnPilotTxAnt         Integer32,
    dot20AnModSymbolsPerQPSKLAB     Integer32,
    dot20AnUseDrchForFicks          Integer32,
    dot20AnEnableExpandedQPCH       TruthValue,
    dot20AnSectorConfigRowStatus    RowStatus
  }

Dot20AnSectorExtChanInfoEntry ::= SEQUENCE
  {
    dot20AnPilotID                   Integer32,
    dot20AnHalfDuplexModeSupported   TruthValue,
    dot20AnFACKBandwidthFactor       Integer32,
    dot20AnSFNCellID                 Integer32,
    dot20AnCellNullID                Integer32,
    dot20AnMaxNumSharedLABs          Integer32,
    dot20AnMaxNumLABs                Integer32,
    dot20AnMax16QamScchBlocks        Integer32,
    dot20AnPdCabResSharingEnabled    TruthValue,
dot20AnAssignmentAckHARQTx Integer32,
dot20AnCQIPilotTransmitPower Integer32,
dot20AnCommonPilotTransmitPower Integer32,
dot20AnCDMAInterlacesBitmap Integer32,
dot20AnNumOdcchReports Integer32,
dot20AnNumRLCdmaSubsegments Integer32,
dot20AnRackBandwidthFactor Integer32,
dot20AnRLNumSdmaDimensions Integer32,
dot20AnRLDpchCodeOffsetSubtree0 Integer32,
dot20AnRLDpchCodeOffsetSubtree1 Integer32,
dot20AnRLDpchCodeOffsetSubtree2 Integer32,
dot20AnRLDpchCodeOffsetSubtree3 Integer32,
dot20AnRLSubzoneSize Integer32,
dot20AnSilenceIntervalPeriod Integer32,
dot20AnSilenceIntervalDuration Integer32,
dot20AnNumSilenceIntervalSubzone Integer32,
dot20AnAckInterferenceOffset Integer32,
dot20AnMacIdRange INTEGER, dot20AnF1PcReportInterval Integer32,
dot20AnF1PqiReportInterval Integer32,
dot20AnF1LctReportInterval Integer32,
dot20AnFastIoTEnabled TruthValue,
dot20AnFastOSIEnabled TruthValue,
dot20AnRabEnabled TruthValue,
dot20AnOsiResponseMode INTEGER,
dot20AnSlowInterferenceOffset Integer32,
dot20AnCtrlAccessOffset Integer32,
dot20AnRLAuxPilotPower Integer32,
dot20AnReqQoSPowerBoost Integer32,
dot20AnErasureTargetCtoI0 Integer32,
dot20AnErasureTargetCtoI1 Integer32,
dot20AnErasureTargetCtoI2 Integer32,
dot20AnAccessCycleDuration Integer32,
dot20AnMaxProbesPerSequence Integer32,
dot20AnProbeRampUpStepSize Integer32,
dot20AnPilotThreshold1 Integer32,
dot20AnPilotThreshold2 Integer32,
dot20AnOpenLoopAdjust Integer32,
dot20AnAccessRetryPersistence0 Integer32,
dot20AnAccessRetryPersistence1 Integer32,
dot20AnAccessRetryPersistence2 Integer32,
dot20AnAccessRetryPersistence3 Integer32,
dot20AnAccessRetryPersistence4 Integer32,
dot20AnAccessRetryPersistence5 Integer32,
dot20AnAccessRetryPersistence6 Integer32,
dot20AnAccessRetryPersistence7 Integer32,
dot20AnSectorExtChanRowStatus RowStatus
}

Dot20AnSectorGrpResSetsEntry ::= SEQUENCE
{
  dot20AnResourceSetId Integer32,
dot20AnResourceSetBitmap Integer32,
dot20AnBRCHSubzoneCyclingEnabled TruthValue,
dot20AnResourceSetSubZoneSpacing Integer32,
dot20AnNumResourceSubzones Integer32,
dot20AnResourceSubzoneOffset Integer32,
dot20AnResourceSetRowStatus RowStatus
}

Dot20AnSectorIpsiEntry ::= SEQUENCE
{
  dot20AnIpsiIndex Integer32,
dot20AnSupportedIpsi Integer32,
dot20AnIpsiRowStatus RowStatus
}
Dot20AnSectorParamEntry ::= SEQUENCE
  {
    dot20AnMobileCountryCode   Integer32,
    dot20AnMobileNetworkCode   Integer32,
    dot20AnSectorID            OCTET STRING,
    dot20AnChannelBandRef      Integer32,
    dot20AnLatitude            Integer32,
    dot20AnLongitude           Integer32,
    dot20AnLeapSeconds         Integer32,
    dot20AnLocalTimeOffset     Integer32,
    dot20AnPrimaryRegZoneCode  Integer32,
    dot20AnGroupId             Integer32,
    dot20AnPilotGroupId        Integer32,
    dot20AnSynchronousGroupId  Integer32,
    dot20AnCellGroupId         Integer32,
    dot20AnSectorParamRowStatus RowStatus
  }

Dot20AnSectorToIfIndexEntry ::= SEQUENCE
  {
    dot20AnIfChannelBandRef Integer32
  }

Dot20CmnAuthStatsEntry ::= SEQUENCE
  {
    dot20CmnAuthFailureCounts Counter64,
    dot20CmnAuthSuccessCounts Counter64
  }

Dot20CmnLMACPacketStatsEntry ::= SEQUENCE
  {
    dot20CmnPacketFormatIndex Integer32,
    dot20CmnARQAttemptsIndex Integer32,
    dot20CmnFwdTxPacketCounts Counter64,
    dot20CmnRevRxPacketCounts Counter64
  }

Dot20CmnLMACStatsEntry ::= SEQUENCE
  {
    dot20CmnFLABCounts        Counter64,
    dot20CmnRLABCounts        Counter64,
    dot20CmnAccessGrantCounts Counter64
  }

Dot20CmnQmpStatsEntry ::= SEQUENCE
  {
    dot20CmnActiveReservationsCounts Counter64,
    dot20CmnIdleReservationsCounts Counter64,
    dot20CmnReservationOpenCounts Counter64,
    dot20CmnReservationCloseCounts Counter64,
    dot20CmnReservationFailCounts Counter64
  }

Dot20CmnRlpStatsEntry ::= SEQUENCE
  {
    dot20CmnStreamId          Integer32,
    dot20CmnRlpTxBytes        Counter64,
    dot20CmnRlpReTxBytes      Counter64,
    dot20CmnRlpTxDropBytes    Counter64,
    dot20CmnRlpTxStatus       Counter64,
    dot20CmnRlpRxBytes        Counter64,
    dot20CmnRlpRxStatus       Counter64,
    dot20CmnRlpTxPackets      Counter64,
    dot20CmnRlpReTxPackets    Counter64,
    dot20CmnRlpTxdropPackets  Counter64,
    dot20CmnRlpRxPackets      Counter64,
    dot20CmnRlpTXNAKTimeouts  Counter64,
    dot20CmnRlpTXACKTimeouts  Counter64
  }
dot20An OBJECT-IDENTITY
  STATUS        current
  DESCRIPTION  "AN specific configuration and statistics."
  ::= { ieee802dot20 1 }

dot20AnMac OBJECT-IDENTITY
  STATUS        current
  DESCRIPTION  "MAC layer objects"
  ::= { dot20An 1 }

dot20AnConnectionControl OBJECT IDENTIFIER ::= { dot20AnMac 3 }

dot20AnIdleState OBJECT IDENTIFIER ::= { dot20AnConnectionControl 1 }

dot20AnIdleStateStatsTable OBJECT-TYPE
  SYNTAX        SEQUENCE OF Dot20AnIdleStateStatsEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION  "This table provides one row of Idle State protocol statistics
     per 802.20 interface (i.e. sector for a specific ChannelBand)
     and carrier."
  ::= { dot20AnIdleState 1 }

dot20AnIdleStateStatsEntry OBJECT-TYPE
  SYNTAX        Dot20AnIdleStateStatsEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION  "An Entry (conceptual row) in the IdleStateStats table. This
     table is indexed by ifIndex and CarrierID. ifIndex: Each IEEE
     802.20 interface (uniquely identified by SectorID) is
     represented by an ifEntry. In the case of a multicarrier
     Sector, the CarrierID indentifies one specific carrier."
  REFERENCE  "IEEE Std. 802.20-2008, Subclause 8.4 (Access Channel MAC
     Protocol)"
  INDEX
    { ifIndex }
  ::= { dot20AnIdleStateStatsTable 1 }

dot20AnAccessAttemptCounts OBJECT-TYPE
  SYNTAX        Counter32
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION  "Number of Access Attempts among all Terminals"
  REFERENCE  "IEEE Std. 802.20-2008, Subclause 8.4.5.5.2,  
              (Access Channel MAC Protocol / AN Requirements)"
  ::= { dot20AnIdleStateStatsEntry 1 }

dot20AnAccessAttemptFailCounts OBJECT-TYPE
  SYNTAX        Counter32
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION  "Number of Failed Access Attempts among all Terminals. 
     Incremented when access RLAB is not used by a terminal."
  REFERENCE  "IEEE Std. 802.20-2008, Subclause 11.5.4.3.2 (BindATI), and 
              Subclause 11.2.4.6.2.1 (issuing ConnectedState.Deactivate)"
  ::= { dot20AnIdleStateStatsEntry 2 }
dot20AnPageAttemptCounts OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION "Number of Page Attempts"
  REFERENCE "IEEE Std. 802.20-2008, Subclause 8.3.5.8 (TX and RX of F-QPCH Physical Layer), and Table 208 (RouteOpenRequestReason encoding)"
  ::= { dot20AnIdleStateStatsEntry 3 }

dot20AnPageFailureCounts OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION "Number of Failed Page Attempts"
  REFERENCE "IEEE Std. 802.20-2008, Subclause 8.3.5.8 (TX and RX of F-QPCH Physical Layer), and Table 208 (RouteOpenRequestReason encoding)"
  ::= { dot20AnIdleStateStatsEntry 4 }

dot20AnOverheadMessages OBJECT IDENTIFIER ::= { dot20AnConnectionControl 4 }
dot20AnSectorConfigTable OBJECT-TYPE
  SYNTAX SEQUENCE OF Dot20AnSectorConfigEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION "This table provides one row per 802.20 interface, i.e. sector for a specific ChannelBand. This table's attributes specify the configuration of the corresponding sector, and can be used to populate fields in SystemInfo block and QuickChannelInfo message, which are transmitted by the Overhead Messages Protocol."
  ::= { dot20AnOverheadMessages 1 }
dot20AnSectorConfigEntry OBJECT-TYPE
  SYNTAX Dot20AnSectorConfigEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION "An Entry (conceptual row) in the SectorConfig table. This table is indexed by IfIndex. IfIndex: Each IEEE 802.20 interface (uniquely identified by SectorID) is represented by an ifEntry."
  REFERENCE "IEEE Std. 802.20-2008, Subclause 11.6 (Overhead Messages Protocol)"
  INDEX { ifIndex }
  ::= { dot20AnSectorConfigTable 1 }
dot20AnTotalNumSubcarriers OBJECT-TYPE
  SYNTAX Integer32 (0..7)
  MAX-ACCESS read-write
  STATUS current
  DESCRIPTION "This parameter takes the value 2^(7+n), where n is the value of the 3 bit field. This field is not be set to a value of 5 or above."
  REFERENCE "IEEE Std. 802.20-2008, Subclause 11.6.5.2 (SystemInfo Block)"
  ::= { dot20AnSectorConfigEntry 29 }
dot20AnNumGuardSubcarriers OBJECT-TYPE
  SYNTAX Integer32 (0..7)
  MAX-ACCESS read-write
  STATUS current
  DESCRIPTION
"This attribute determines the number of guard subcarriers as defined in 802.20 Physical layer specification."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.2 (SystemInfo Block)"
::= { dot20AnSectorConfigEntry 30 }

dot20AnFLSubzoneSize OBJECT-TYPE
SYNTAX        Integer32 (0..1)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This field determines the number of subzones on the forward link. If n=0, this parameter is set to 64 and if n=1, this parameter is set to 128."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.2 (SystemInfo Block)"
::= { dot20AnSectorConfigEntry 31 }

dot20AnResourceChannelMuxMode OBJECT-TYPE
SYNTAX        Integer32 (0..1)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This field determines the number of subzones on the forward link. If n=0, this parameter is set to 64 and if n=1, this parameter is set to 128."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.3 (QuickChannelInfo Block)"
::= { dot20AnSectorConfigEntry 32 }

dot20AnNumDRCHSubzones OBJECT-TYPE
SYNTAX        Integer32
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This field takes values between 0 and N_FFT/64 - 1"

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.3 (QuickChannelInfo Block)"
::= { dot20AnSectorConfigEntry 33 }

dot20AnFLReservedInterlaces OBJECT-TYPE
SYNTAX        INTEGER {
    zero(1),
    zeroToOne(2),
    zeroToTwo(3),
    zeroToThree(4),
    zeroToFoue(5),
    zeroToFive(6),
    zeroToSix(7),
    zeroToSeven(8),
    zeroAndThree(9),
    zeroAndSix(10),
    zeroTwoAndFour(11),
    zeroTwoFourAndSix(12),
    reserved(13),
    reserved2(14),
    reserved3(15),
    none(16)
}
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute determines which interlaces contain reserved bandwidth on the forward link."

REFERENCE
"IEEE Std. 802.20-2008, Table 193 (Interpretation of FL Reserved Interlaces), Subclause 11.6.5.2"
::= { dot20AnSectorConfigEntry 34 }
dot20AnNumFLReservedSubzones OBJECT-TYPE
SYNTAX        Integer32 (0..15)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field determines the number of subzones that are reserved on each interlace that contains reserved bandwidth"
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.2 (SystemInfo Block)"
::= { dot20AnSectorConfigEntry 35 }

dot20AnCpichHoppingMode OBJECT-TYPE
SYNTAX        Integer32 (0..1)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field is set to 0 for deterministic, and 1 for random hopping"
REFERENCE      "IEEE Std 802.20-2008 Subclause 11.6.5.3 (QuickChannelInfo Block)"
::= { dot20AnSectorConfigEntry 36 }

dot20AnNumEffectiveAntennas OBJECT-TYPE
SYNTAX        Integer32 (1..8)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This attribute determines the effective number of antennas."
REFERENCE      "IEEE Std 802.20-2008 Subclause 11.6.5.3 (QuickChannelInfo Block)"
::= { dot20AnSectorConfigEntry 37 }

dot20AnNumCommonSegmentHopPorts OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This attribute determines the number of common segment hop ports encoded as described in the AIS."
REFERENCE      "IEEE Std 802.20-2008 Subclause 11.6.5.3 (QuickChannelInfo Block)"
::= { dot20AnSectorConfigEntry 38 }

dot20AnNumLABSegments OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field indicates the number of LABSegments."
REFERENCE      "IEEE Std 802.20-2008 Subclause 11.6.5.3 (QuickChannelInfo Block)"
::= { dot20AnSectorConfigEntry 39 }

dot20AnMinScchResourceIndex OBJECT-TYPE
SYNTAX        Integer32 (0..31)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This parameter is in units of N_FFT/32 resources, and spans from 0 to N_FFT -1"
REFERENCE      "IEEE Std 802.20-2008 Subclause 11.6.5.3 (QuickChannelInfo Block)"
::= { dot20AnSectorConfigEntry 40 }

dot20AnSinglePAForXCarriers OBJECT-TYPE
SYNTAX        Integer32 (0..1)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field determines the structure of F-BPICH"
REFERENCE     "IEEE Std 802.20-2008 Subclause 11.6.5.3 (QuickChannelInfo Block)"
::= { dot20AnSectorConfigEntry 41 }
dot20AnFlSdmaNumSubtrees OBJECT-TYPE
SYNTAX        Integer32 (1..4)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field determines the number of sub-trees on the forward link."
REFERENCE     "IEEE Std 802.20-2008 Subclause 11.6.5.3 (QuickChannelInfo Block)"
::= { dot20AnSectorConfigEntry 42 }
dot20AnFDPICHCodeOffsetSubtree0 OBJECT-TYPE
SYNTAX        Integer32 (0..3)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field is set to the corresponding value for subtree 0. This subtree is always present, and is therefore not described in the overhead channels."
REFERENCE     "IEEE Std 802.20-2008 Subclause 9.4.1.2.3.2 (Forward Dedicated Pilot Channel)"
::= { dot20AnSectorConfigEntry 43 }
dot20AnFDPICHCodeOffsetSubtree1 OBJECT-TYPE
SYNTAX        Integer32 (0..3)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field is set to the corresponding value for subtree 1"
REFERENCE     "IEEE Std 802.20-2008 Subclause 9.4.1.2.3.2 (Forward Dedicated Pilot Channel), and Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorConfigEntry 44 }
dot20AnFDPICHCodeOffsetSubtree2 OBJECT-TYPE
SYNTAX        Integer32 (0..3)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field is set to the corresponding value for subtree 2"
REFERENCE     "IEEE Std 802.20-2008 Subclause 9.4.1.2.3.2 (Forward Dedicated Pilot Channel), and Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorConfigEntry 45 }
dot20AnFDPICHCodeOffsetSubtree3 OBJECT-TYPE
SYNTAX        Integer32 (0..3)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field is set to the corresponding value for subtree 3"
REFERENCE     "IEEE Std 802.20-2008 Subclause 9.4.1.2.3.2 (Forward Dedicated Pilot Channel), and Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorConfigEntry 46 }
dot20AnNumCmnPilotTxAnt OBJECT-TYPE
SYNTAX        Integer32 (1..4)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute determines the number of common pilot
transmit antennas. See NumEffectiveAntennas in spec."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 5.4.1.3.1.1 (Forward
Common Pilot Channel Subcarriers), and Subclause 11.6.5.3
(QuickChannelInfo Block)"
::= { dot20AnSectorConfigEntry 47 }

dot20AnModSymbolsPerQPSKLAB OBJECT-TYPE
SYNTAX        Integer32 (0..4)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This field determines the number of modulation symbols
for each block carried by the F-SCCH"
REFERENCE
"IEEE Std. 802.20-2008, Table 189 (Interpretation of
ModulationSymbolsPerQPSKLAB)"
::= { dot20AnSectorConfigEntry 48 }

dot20AnUseDrchForFlcs OBJECT-TYPE
SYNTAX        Integer32 (0..1)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This field determines the hopping pattern on the FLCS"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.3 (QuickChannelInfo
Block)"
::= { dot20AnSectorConfigEntry 49 }

dot20AnEnableExpandedQPCH OBJECT-TYPE
SYNTAX        TruthValue
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This field determines the number of packets delivered to
the Physical Layer by the MAC Layer"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.3 (QuickChannelInfo
Block)"
::= { dot20AnSectorConfigEntry 50 }

dot20AnSectorConfigRowStatus OBJECT-TYPE
SYNTAX        RowStatus
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION
"The status column used for creating, modifying, and deleting
instances of the columnar objects in the SectorConfig Table. If
the implementer of this MIB has chosen not to implement
'dynamic assignment' of sectors, this attribute is not useful
and should return noSuchName upon SNMP request."
DEFVAL         { active }
::= { dot20AnSectorConfigEntry 78 }

dot20AnSectorExtChanInfoTable OBJECT-TYPE
SYNTAX        SEQUENCE OF Dot20AnSectorExtChanInfoEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"This table provides one row per 802.20 interface, i.e. sector
for a specific ChannelBand. This table's attributes specify the
configuration of the corresponding sector, and can be used to
populate fields in extendedChannelInfo message."

::= { dot20AnOverheadMessages 2 }

dot20AnSectorExtChanInfoEntry OBJECT-TYPE
SYNTAX        Dot20AnSectorExtChanInfoEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"An Entry (conceptual row) in the SectorExtChanInfo table. This
table is indexed by IfIndex. IfIndex: Each IEEE 802.20
interface (uniquely identified by SectorID) is represented by
an ifEntry. The Extended Channel Info is transmitted by the
Overhead Messages Protocol."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4 (ExtendedChannelInfo)"
INDEX
::= { dot20AnSectorExtChanInfoTable 1 }

dot20AnPilotID OBJECT-TYPE
SYNTAX        Integer32 (0..1023)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute is set to the PilotID of the sector."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 5.3.2.1 (PilotPN and PilotPhase)"
::= { dot20AnSectorExtChanInfoEntry 1 }

dot20AnHalfDuplexModeSupported OBJECT-TYPE
SYNTAX        TruthValue
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute is set to True if the access network
supports half duplex terminals, and is set to False
otherwise. If half-duplex terminals are supported, the access
network should assign MAC IDs and channel assignments in a
manner that enables half-duplex terminal operation. A
half-duplex access terminal is not required to monitor forward
link transmissions on a PHY Frame where it is scheduled to make
a reverse link transmission."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 7.7.5.4 (MACResourceAssignment)"
::= { dot20AnSectorExtChanInfoEntry 2 }

dot20AnFACKBandwidthFactor OBJECT-TYPE
SYNTAX        Integer32 (1..4)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"Forward Acknowledgement channel (FACK) bandwidth factor"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 3 }

dot20AnSFNCellID OBJECT-TYPE
SYNTAX        Integer32 (0..511)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This field determines the ID of the single frequency network
cell (for BCMCS)"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup),
and Subclause 5.2.3.2.2 (SFNCellID and SFNPhase)"
::= { dot20AnSectorExtChanInfoEntry 5 }
dot20AnCellNullID OBJECT-TYPE
SYNTAX       Integer32 (0..511)
MAX-ACCESS   read-write
STATUS       current
DESCRIPTION  "Cell Null Id"
REFERENCE    "IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 6 }

dot20AnMaxNumSharedLABs OBJECT-TYPE
SYNTAX        Integer32 (1..4)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION   "This field determines the maximum number of shared LABs that are transmitted by this sector"
REFERENCE     "IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 7 }

dot20AnMaxNumLABs OBJECT-TYPE
SYNTAX        Integer32 (0..63)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION   "This field is set to the Maximum number of LABs that can be transmitted by this sector"
REFERENCE     "IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 9 }

dot20AnMax16QamScchBlocks OBJECT-TYPE
SYNTAX        Integer32 (0..15)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION   "This field is set to the maximum number of 16-QAM blocks that may be transmitted by the access network"
REFERENCE     "IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 10 }

dot20AnPdCabResSharingEnabled OBJECT-TYPE
SYNTAX        TruthValue
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION   "This field determines if resource sharing using PDCABs is enabled"
REFERENCE     "IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 11 }

dot20AnNumAckableLABs OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION   "This field is set to the number of LABs on SCCH that the access terminal is to acknowledge"
REFERENCE     "IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 12 }

dot20An16QamScchT2PRatio OBJECT-TYPE
SYNTAX        INTEGER {
minusSevenDb(1),
minusFourDb(2),
zeroDb(3),
minusTenDb(4)
}
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"16 Qam Scch T2P Ratio"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 13 }
dot20AnEffectiveTransmitPower OBJECT-TYPE
SYNTAX        Integer32 (0..63)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute is set to the effective transmit power of the
sector in units of dBm"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 14 }
dot20AnAssignmentAckHARQTx OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"The value 0 indicates that no ACK is sent in response to an
assignment. The rules for interpreting other values of this
field are provided in the MAC Layer. The value 7 is reserved"
REFERENCE
"IEEE Std. 802.20-2008, Table 196, and Subclause 11.6.5.4.2
(ReverseChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 15 }
dot20AnCQIPilotTransmitPower OBJECT-TYPE
SYNTAX        Integer32 (0..15)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"The field determines the power spectral density of the F-CQIPICH
relative to the reference transmit power density defined by the
Physical
Layer. This parameter may take the value (-4 + n*0.5) dB."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 16 }
dot20AnCommonPilotTransmitPower OBJECT-TYPE
SYNTAX        Integer32 (0..15)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"The attribute's value noted n determines the power
spectral density of the F-CPICH during the FL PHY frame
relative to the F-ACQCH. The pilot power density is equal
to (-4 + n*0.5) dB."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 17 }
dot20AnCDMAInterlacesBitmap OBJECT-TYPE
SYNTAX        Integer32 (0..255)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"The j'\text{th} bit of this field is set to 1 if interlace i contains a Reverse Link CDMASegment. Here \( j \) is assumed to range from 0 through 7, and an interlace i is the set of PHY Frames that satisfy PHY Frame Index mod 8 = i."

REFERENCE

"IEEE Std. 802.20-2008, Table 196, and Subclause 11.6.5.4.2 (ReverseChannelGroup)"

\[
::= \{ \text{dot20AnSectorExtChanInfoEntry} 18 \}
\]

dot20AnNumOdcchReports OBJECT-TYPE
SYNTAX Integer32 (0..31)
MAX-ACCESS read-write
STATUS current
DESCRIPTION "Num ODCCH reports, specified in units of 16"
REFERENCE "IEEE Std. 802.20-2008, Table 196, and Subclause 11.6.5.4.2 (ReverseChannelGroup)"

\[
::= \{ \text{dot20AnSectorExtChanInfoEntry} 27 \}
\]

dot20AnNumRLCdmaSubsegments OBJECT-TYPE
SYNTAX Integer32 (1..16)
MAX-ACCESS read-write
STATUS current
DESCRIPTION "This field determines the number of RLCdmaSubsegments on this sector."
REFERENCE "IEEE Std. 802.20-2008, Table 196, and Subclause 11.6.5.4.2 (ReverseChannelGroup)"

\[
::= \{ \text{dot20AnSectorExtChanInfoEntry} 28 \}
\]

dot20AnRackBandwidthFactor OBJECT-TYPE
SYNTAX Integer32 (0..3)
MAX-ACCESS read-write
STATUS current
DESCRIPTION "This parameter is set to \(2^n\), where n is the value of the two bit field."
REFERENCE "IEEE Std. 802.20-2008, Table 196, and Subclause 11.6.5.4.2 (ReverseChannelGroup)"

\[
::= \{ \text{dot20AnSectorExtChanInfoEntry} 30 \}
\]

dot20AnRlNumSdmaDimensions OBJECT-TYPE
SYNTAX Integer32 (1..4)
MAX-ACCESS read-write
STATUS current
DESCRIPTION "This field determines the number of spatial dimensions on the reverse link."
REFERENCE "IEEE Std. 802.20-2008, Table 196 (ReverseChannel Group), and Subclause 11.6.5.4.2 (ReverseChannelGroup)"

\[
::= \{ \text{dot20AnSectorExtChanInfoEntry} 31 \}
\]

dot20AnRlDpichCodeOffsetSubtree0 OBJECT-TYPE
SYNTAX Integer32 (0..3)
MAX-ACCESS read-write
STATUS current
DESCRIPTION "This field is set to the code offset for tree 0"
REFERENCE "IEEE Std. 802.20-2008, Table 195 (ForwardChannel Group), and Subclause 11.6.5.4.1 (ForwardChannelGroup)"

\[
::= \{ \text{dot20AnSectorExtChanInfoEntry} 32 \}
\]

dot20AnRlDpichCodeOffsetSubtree1 OBJECT-TYPE
SYNTAX        Integer32 (0..3)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION   "This field is set to the code offset for tree 1"
REFERENCE     "IEEE Std. 802.20-2008, Table 195 (ForwardChannel Group), and
               Subclause 11.6.5.4.1 (ForwardChannelGroup)"
               ::= { dot20AnSectorExtChanInfoEntry 33 }

dot20AnRlDpichCodeOffsetSubtree2 OBJECT-TYPE
SYNTAX        Integer32 (0..3)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION   "This field is set to the code offset for tree 2"
REFERENCE     "IEEE Std. 802.20-2008, Table 195 (ForwardChannel Group), and
               Subclause 11.6.5.4.1 (ForwardChannelGroup)"
               ::= { dot20AnSectorExtChanInfoEntry 34 }

dot20AnRlDpichCodeOffsetSubtree3 OBJECT-TYPE
SYNTAX        Integer32 (0..3)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION   "This field is set to the code offset for tree 3"
REFERENCE     "IEEE Std. 802.20-2008, Table 195 (ForwardChannel Group), and
               Subclause 11.6.5.4.1 (ForwardChannelGroup)"
               ::= { dot20AnSectorExtChanInfoEntry 35 }

dot20AnRlSubzoneSize OBJECT-TYPE
SYNTAX        Integer32 (0..1)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION   "This field determines the size of subzones on the reverse
               link. If n=0, this parameter takes the value 64 and if
               n=1, this parameter takes the value 128"
REFERENCE     "IEEE Std. 802.20-2008, Table 196 (ReverseChannel Group), and
               Subclause 11.6.5.4.2 (ReverseChannelGroup)"
               ::= { dot20AnSectorExtChanInfoEntry 36 }

dot20AnSilenceIntervalPeriod OBJECT-TYPE
SYNTAX        Integer32 (0..15)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION   "This field determines the period in units of super frames
               when the silence interval repeats. The SilenceInterval takes
               a value of 2^n super frames, where n is the value of this four
               bit field"
REFERENCE     "IEEE Std. 802.20-2008, Table 196 (ReverseChannel Group), and
               Subclause 11.6.5.4.2 (ReverseChannelGroup)"
               ::= { dot20AnSectorExtChanInfoEntry 38 }

dot20AnSilenceIntervalDuration OBJECT-TYPE
SYNTAX        Integer32 (1..8)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION   "This field determines the duration silence interval in
               units of 8 OFDM symbols"
REFERENCE     "IEEE Std. 802.20-2008, Table 196 (ReverseChannel Group), and
Subclause 11.6.5.4.2 (ReverseChannelGroup)

::= { dot20AnSectorExtChanInfoEntry 39 }

dot20AnNumSilenceIntervalSubzone OBJECT-TYPE
SYNTAX        Integer32 (0..15)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field specifies the set of subzones that are blanked
during the silence interval."
REFERENCE      "IEEE Std. 802.20-2008, Table 196 (ReverseChannel Group), and
Subclause 11.6.5.4.2 (ReverseChannelGroup)"
::= { dot20AnSectorExtChanInfoEntry 40 }

dot20AnAckInterferenceOffset OBJECT-TYPE
SYNTAX        Integer32 (0..15)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field may take values in units of dB"
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
::= { dot20AnSectorExtChanInfoEntry 42 }

dot20AnMacIdRange OBJECT-TYPE
SYNTAX        INTEGER {
    upTo63(1),
    upTo127(2),
    upTo255(3),
    upTo511(4),
    upTo1023(5),
    upTo2047(6),
    reserved(7),
    upTo31(8)
}
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field is set to indicate the range of assigned
MACID values in the sector. For example, a MACIDRange of 63
indicates that the sector has not assigned MACID values 64 and
above"
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
::= { dot20AnSectorExtChanInfoEntry 43 }

dot20AnFlPcReportInterval OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field determines the periodicity at which power
control commands are sent to the access terminal. This
parameter may take the value 2^n, where n is the value of the
three bit field."
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
::= { dot20AnSectorExtChanInfoEntry 44 }

dot20AnFlPqiReportInterval OBJECT-TYPE
SYNTAX        Integer32 (0..3)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field determines the periodicity at which PQI
reports commands are sent by this sector. This parameter
takes the value 16*2^n, where n is the value of the three bit
dot20AnFlIotReportInterval OBJECT-TYPE
SYNTAX           Integer32 (0..3)
MAX-ACCESS       read-write
STATUS           current
DESCRIPTION      "This field determines the periodicity at which IoT values are sent to the access terminal. This parameter may take the value 2^n, where n is the value of the three bit field"
REFERENCE        "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
::= { dot20AnSectorExtChanInfoEntry 45 }

dot20AnFastIoTEnabled OBJECT-TYPE
SYNTAX           TruthValue
MAX-ACCESS       read-write
STATUS           current
DESCRIPTION      "This field determines if the access terminal is required to read Fast IoT from this sector"
REFERENCE        "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
::= { dot20AnSectorExtChanInfoEntry 46 }

dot20AnFastOSIEnabled OBJECT-TYPE
SYNTAX           TruthValue
MAX-ACCESS       read-write
STATUS           current
DESCRIPTION      "This field determines if the access terminal is required to read OSI from this sector"
REFERENCE        "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
::= { dot20AnSectorExtChanInfoEntry 47 }

dot20AnRabEnabled OBJECT-TYPE
SYNTAX           TruthValue
MAX-ACCESS       read-write
STATUS           current
DESCRIPTION      "This field is set to 1 if this sector transmits RAB, and is set to 1 otherwise"
REFERENCE        "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
::= { dot20AnSectorExtChanInfoEntry 48 }

dot20AnOsiResponseMode OBJECT-TYPE
SYNTAX           INTEGER {
                      stochastic(1),
                      deterministic(2)
                  }
MAX-ACCESS       read-write
STATUS           current
DESCRIPTION      "This field determines the type of response to OSI modes"
REFERENCE        "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
::= { dot20AnSectorExtChanInfoEntry 49 }

dot20AnSlowInterferenceOffset OBJECT-TYPE
SYNTAX           Integer32 (0..15)
MAX-ACCESS       read-write
STATUS           current
DESCRIPTION      "This field determines the offset for slow interference measurement"
"This field is set in units of dB"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
::= { dot20AnSectorExtChanInfoEntry 51 }

dot20AnCtrlAccessOffset OBJECT-TYPE
SYNTAX        Integer32 (0..3)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This field determines the initial gain of the R-CQICH over the
R-ACH. The value of this parameter is -11+n dB, where n
is the value of this field"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
::= { dot20AnSectorExtChanInfoEntry 52 }

dot20AnRlAuxPilotPower OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This field is determine the offset of R-AuxPICH with
respect to R-PICH. This parameter may take the value 4+n."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 8.8.9.2.3 (PowerParameters
Attribute)"
::= { dot20AnSectorExtChanInfoEntry 53 }

dot20AnReqQoSPowerBoost OBJECT-TYPE
SYNTAX        Integer32 (0..3)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This field is in units of dB"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 8.7.7.2.1 (PowerControl
Attribute)"
::= { dot20AnSectorExtChanInfoEntry 54 }

dot20AnErasureTargetCtoI0 OBJECT-TYPE
SYNTAX        Integer32 (0..15)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute's value noted n determines the transmit
power of erasure sequences for different assignment sizes. The
transmit power is equal to n-6 dB."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 8.8.9.2.3 (PowerParameters
Attribute)"
::= { dot20AnSectorExtChanInfoEntry 55 }

dot20AnErasureTargetCtoI1 OBJECT-TYPE
SYNTAX        Integer32 (0..15)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute's value noted n determines the transmit
power of erasure sequences for different assignment sizes. The
transmit power is equal to n-6 dB."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 8.8.9.2.3 (PowerParameters
Attribute)"
::= { dot20AnSectorExtChanInfoEntry 56 }

dot20AnErasureTargetCtoI2 OBJECT-TYPE
SYNTAX        Integer32 (0..15)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "This attribute's value noted n determines the transmit power of erasure sequences for different assignment sizes. The transmit power is equal to n-6 dB."
REFERENCE    "IEEE Std. 802.20-2008, Subclause 8.8.9.2.3 (PowerParameters Attribute)"
::= { dot20AnSectorExtChanInfoEntry 57 }
dot20AnErasureTargetCtoI3 OBJECT-TYPE
SYNTAX      Integer32 (0..15)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "This attribute's value noted n determines the transmit power of erasure sequences for different assignment sizes. The transmit power is equal to n-6 dB."
REFERENCE    "IEEE Std. 802.20-2008, Subclause 8.8.9.2.3 (PowerParameters Attribute)"
::= { dot20AnSectorExtChanInfoEntry 58 }
dot20AnAccessCycleDuration OBJECT-TYPE
SYNTAX      Integer32 (0..1)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "This attribute determines the duration of the access cycle in units of Access Opportunities (as defined by the Physical Layer.)"
REFERENCE    "IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters Group)"
::= { dot20AnSectorExtChanInfoEntry 59 }
dot20AnMaxProbesPerSequence OBJECT-TYPE
SYNTAX      Integer32 (0..7)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "This attribute determines the maximum number of probe sequences that can be part of one access sequence. The number of probes is n+2"
REFERENCE    "IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters Group)"
::= { dot20AnSectorExtChanInfoEntry 60 }
dot20AnProbeRampUpStepSize OBJECT-TYPE
SYNTAX      Integer32 (0..3)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "This attribute's value noted n determines the power ramp up used for probes within a probe sequence and indicates a ramp up value of 2*(1+n) dB."
REFERENCE    "IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters Group)"
::= { dot20AnSectorExtChanInfoEntry 61 }
dot20AnPilotThreshold1 OBJECT-TYPE
SYNTAX      Integer32 (0..7)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "This attribute's value noted n determines the transmit power of erasure sequences for different assignment sizes. The transmit power is equal to n-6 dB."
REFERENCE    "IEEE Std. 802.20-2008, Subclause 8.8.9.2.3 (PowerParameters Attribute)"
::= { dot20AnSectorExtChanInfoEntry 57 }
"This attribute's value noted n determines
PilotThreshold1 used by the Access Channel MAC Protocol. The
value is -10 + 2n dB."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
Group)"
::= { dot20AnSectorExtChanInfoEntry 62 }

dot20AnPilotThreshold2 OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute's value noted n determines
PilotThreshold2 used by the Access Channel MAC Protocol. The
value is -2n dB."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
Group)"
::= { dot20AnSectorExtChanInfoEntry 63 }

dot20AnOpenLoopAdjust OBJECT-TYPE
SYNTAX        Integer32 (0..255)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute's value noted n determines the nominal
power to be used by access terminal in the open loop power
estimate. The value of nominal power is 70+n dB."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
Group)"
::= { dot20AnSectorExtChanInfoEntry 64 }

dot20AnAccessRetryPersistance0 OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute determines the persistence probability for
determining access sequence backoff. If this attribute's value
is set to n, the access terminal will use 2^(-n/2) as the
retry persistence. For n=7, the access terminal will set
AccessRetryPersistence to 0."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
Group)"
::= { dot20AnSectorExtChanInfoEntry 65 }

dot20AnAccessRetryPersistance1 OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute determines the persistence probability for
determining access sequence backoff. If this attribute's value
is set to n, the access terminal will use 2^(-n/2) as the
retry persistence. For n=7, the access terminal will set
AccessRetryPersistence to 0."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
Group)"
::= { dot20AnSectorExtChanInfoEntry 66 }

dot20AnAccessRetryPersistance2 OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute determines the persistence probability for
determining access sequence backoff. If this attribute's value
is set to \( n \), the access terminal will use \( 2^{(-n/2)} \) as the
retry persistence. For \( n=7 \), the access terminal will set
AccessRetryPersistence to 0."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
Group)"
::= \{ dot20AnSectorExtChanInfoEntry 67 \}

dot20AnAccessRetryPersistence3 OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute determines the persistence probability for
determining access sequence backoff. If this attribute's value
is set to \( n \), the access terminal will use \( 2^{(-n/2)} \) as the
retry persistence. For \( n=7 \), the access terminal sets
AccessRetryPersistence to 0."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
Group)"
::= \{ dot20AnSectorExtChanInfoEntry 68 \}

dot20AnAccessRetryPersistence4 OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute determines the persistence probability for
determining access sequence backoff. If this attribute's value
is set to \( n \), the access terminal will use \( 2^{(-n/2)} \) as the
retry persistence. For \( n=7 \), the access terminal sets
AccessRetryPersistence to 0."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
Group)"
::= \{ dot20AnSectorExtChanInfoEntry 69 \}

dot20AnAccessRetryPersistence5 OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute determines the persistence probability for
determining access sequence backoff. If this attribute's value
is set to \( n \), the access terminal will use \( 2^{(-n/2)} \) as the
retry persistence. For \( n=7 \), the access terminal sets
AccessRetryPersistence to 0."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
Group)"
::= \{ dot20AnSectorExtChanInfoEntry 70 \}

dot20AnAccessRetryPersistence6 OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute determines the persistence probability for
determining access sequence backoff. If this attribute's value
is set to \( n \), the access terminal will use \( 2^{(-n/2)} \) as the
retry persistence. For \( n=7 \), the access terminal sets
AccessRetryPersistence to 0."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
dot20AnAccessRetryPersistence7 OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This attribute determines the persistence probability for
determining access sequence backoff. If this attribute's value
is set to n, the access terminal will use 2^(-n/2) as the
retry persistence. For n=7, the access terminal sets
AccessRetryPersistence to 0."
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
Group)"
::= { dot20AnSectorExtChanInfoEntry 72 }

dot20AnSectorExtChanRowStatus OBJECT-TYPE
SYNTAX        RowStatus
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION    "The status column used for creating, modifying, and deleting
instances of the columnar objects in the SectorExtChanInfo
Table. If the implementer of this MIB has chosen not to
implement 'dynamic assignment' of sectors, this attribute is
not useful and should return noSuchName upon SNMP request."
DEFVAL         { active }
::= { dot20AnSectorExtChanInfoEntry 73 }

dot20AnSectorParamTable OBJECT-TYPE
SYNTAX        SEQUENCE OF Dot20AnSectorParamEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION    "This table provides one row per 802.20 carrier of a sector for
a specific ChannelBand. This table's attributes specify the
configuration of the corresponding sector and can be used to
populate fields in the SectorParameters message."
::= { dot20AnOverheadMessages 3 }

dot20AnSectorParamEntry OBJECT-TYPE
SYNTAX        Dot20AnSectorParamEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION    "An Entry (conceptual row) in the SectorParam table. This table
is indexed by ifIndex. ifIndex: Each IEEE 802.20 interface
(uniquely identified by SectorID) is represented by an
ifEntry."
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
INDEX          { ifIndex }
::= { dot20AnSectorParamTable 1 }

dot20AnMobileCountryCode OBJECT-TYPE
SYNTAX        Integer32 (0..4096)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This attribute is set to the three digit Mobile Country
Code associated with this sector (as specified in ITU-T
Recommendation E.212, Identification Plan for Land Mobile
Stations)."
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnSectorParamEntry 1 }

dot20AnMobileNetworkCode OBJECT-TYPE
SYNTAX        Integer32 (0..4096)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "This field is set three-digit BCD (binary coded
decimal) encoded representation of the Mobile Network Code
that has been assigned to the operator."
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnSectorParamEntry 2 }

dot20AnSectorID OBJECT-TYPE
SYNTAX        OCTET STRING (SIZE(16))
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "Sector Address Identifier. The access network sets the
value of the SectorID according to the rules specified in IEEE
802.20 AIS. The access terminal does not assume anything about
the format of the SectorID other than that it uniquely
identifies the sector."
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnSectorParamEntry 3 }

dot20AnChannelBandRef OBJECT-TYPE
SYNTAX        Integer32
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "The reference to the ChannelBand defined in ChannelBands table
using this value as index (dot20AnChannelBandIndex)"
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters, first instance), and Subclause 15.2.1 (ChannelBand Record)"
::= { dot20AnSectorParamEntry 4 }

dot20AnLatitude OBJECT-TYPE
SYNTAX        Integer32 (-1296000..1296000)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "The latitude of the sector. This attribute is set to
this sector's latitude in units of 0.25 second, expressed as a
two's complement signed number with positive numbers signifying
North latitudes. This attribute is set to a value in the
range 1296000 to 1296000 inclusive (corresponding to a range of
-90 to +90)."
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnSectorParamEntry 5 }

dot20AnLongitude OBJECT-TYPE
SYNTAX        Integer32 (-2592000..2592000)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION    "The longitude of the sector. This attribute is set to
this sector's longitude in units of 0.25 second, expressed as a
two's complement signed number with positive numbers signifying
East longitude. This attribute is set to a value in the
range 2592000 to 2592000 inclusive (corresponding to a range of
-180 degrees to +180 degrees)."
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnSectorParamEntry 6 }

dot20AnLeapSeconds OBJECT-TYPE
SYNTAX  Integer32 (0..255)
MAX-ACCESS  read-write
STATUS  current
DESCRIPTION
"The number of leap seconds that have occurred since the start
of system time."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnSectorParamEntry 7 }

dot20AnLocalTimeOffset OBJECT-TYPE
SYNTAX  Integer32 (0..2047)
MAX-ACCESS  read-write
STATUS  current
DESCRIPTION
"This attribute is set to the offset of the local time
from System Time. This value will be in units of minutes,
expressed as a two's complement signed number."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnSectorParamEntry 8 }

dot20AnPrimaryRegZoneCode OBJECT-TYPE
SYNTAX  Integer32
MAX-ACCESS  read-write
STATUS  current
DESCRIPTION
"The PrimaryRegistrationZoneCode for this sector"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnSectorParamEntry 9 }

dot20AnAnGroupId OBJECT-TYPE
SYNTAX  Integer32 (0..7)
MAX-ACCESS  read-write
STATUS  current
DESCRIPTION
"Sector's AN Group Id"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnSectorParamEntry 10 }

dot20AnPilotGroupId OBJECT-TYPE
SYNTAX  Integer32 (0..7)
MAX-ACCESS  read-write
STATUS  current
DESCRIPTION
"Sector's Pilot Group Id"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnSectorParamEntry 11 }

dot20AnSynchronousGroupId OBJECT-TYPE
SYNTAX  Integer32 (0..7)
MAX-ACCESS  read-write
STATUS  current
DESCRIPTION
"Sector's Synchronous Group Id"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnSectorParamEntry 12 }

dot20AnCellGroupId OBJECT-TYPE
SYNTAX  Integer32 (0..7)
MAX-ACCESS  read-write
dot20AnSectorParamRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION "The status column used for creating, modifying, and deleting instances of the columnar objects in the SectorParam Table. If the implementer of this MIB has chosen not to implement 'dynamic assignment' of sectors, this attribute is not useful and should return noSuchName upon SNMP request."
DEFVAL { active }
::= { dot20AnSectorParamEntry 14 }

dot20AnSectorGrpResSetsTable OBJECT-TYPE
SYNTAX SEQUENCE OF Dot20AnSectorGrpResSetsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "This table provides one row per 802.20 sector and Forward Channel group resource set (see ExtendedChannelInfo message in AIS)."
::= { dot20AnOverheadMessages 4 }

INDEX
::= { ifIndex, dot20AnResourceSetId }

dot20AnResourceSetId OBJECT-TYPE
SYNTAX Integer32 (0..7)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Index of the forward channel group resource set for a particular sector."
::= { dot20AnSectorGrpResSetsEntry 1 }

dot20AnResourceSetBitmap OBJECT-TYPE
SYNTAX Integer32 (0..255)
MAX-ACCESS read-write
STATUS current
DESCRIPTION "The j'th bit of this field is set to 1 if a frame with frame index mod InterlaceDepth = j contains a subzone that corresponds to this resource set. If the InterlaceDepth = 6, the last two bits of this field is set to 0"
REFERENCE "IEEE Std. 802.20-2008, Subclause 11.7.5.3 (SupplementalConfigAssignment)"
::= { dot20AnSectorGrpResSetsEntry 2 }

\textbf{dot20AnBRCHSubzoneCyclingEnabled OBJECT-TYPE}
\begin{verbatim}
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION "This field is set to 1 if BRCHSubzoneCycling is enabled on this sector. For BRCH resource set with BRCHSubzoneCycling disabled or DRCH resource set, the first subzone offset on all interlaces where this resource set is present is set to the ResourceSubzoneOffset. For BRCH resource set with BRCHSubzoneCycling enabled, the offset of the first subzone over each interlace is shifted cyclically. Since the offset of first subzone over the lowest indexed interlace is defined by ResourceSubzoneOffset, the offset of the first subzone in the next interlace, where the resource set is present, is increased by 1 \mod \text{NumBRCHSubzones}" 
REFERENCE "IEEE Std. 802.20-2008, Subclause 11.7.5.3 (SupplementalConfigAssignment)"
::= { dot20AnSectorGrpResSetsEntry 3 }
\end{verbatim}

\textbf{dot20AnResourceSetSubZoneSpacing OBJECT-TYPE}
\begin{verbatim}
SYNTAX Integer32 (0..3)
MAX-ACCESS read-write
STATUS current
DESCRIPTION "This field indicates the spacing between subzones in a resource set. Subzones belonging to a resource group on an interlace is equally spaced, where the first subzone is defined by ResourceSubzoneOffset and BRCHSubzoneCyclingEnabled" 
REFERENCE "IEEE Std. 802.20-2008, Subclause 11.7.5.3 (SupplementalConfigAssignment)"
::= { dot20AnSectorGrpResSetsEntry 4 }
\end{verbatim}

\textbf{dot20AnNumResourceSubzones OBJECT-TYPE}
\begin{verbatim}
SYNTAX Integer32 (0..31)
MAX-ACCESS read-write
STATUS current
DESCRIPTION "This field determines the number of subzones in each interlace where the resource set is present. An interlace is defined as the set of frames that have the same Frame Index \mod InterlaceDepth, where InterlaceDepth is defined by ResourceSetInterlace. This parameter takes the value n+1."
REFERENCE "IEEE Std. 802.20-2008, Subclause 11.7.5.3 (SupplementalConfigAssignment)"
::= { dot20AnSectorGrpResSetsEntry 5 }
\end{verbatim}

\textbf{dot20AnResourceSubzoneOffset OBJECT-TYPE}
\begin{verbatim}
SYNTAX Integer32 (0..31)
MAX-ACCESS read-write
STATUS current
DESCRIPTION "This field is set to the first subzone on the lowest indexed interlace that is part of a resource set. Interlace index i is defined for the set of frames that have Frame Index \mod \text{InterlaceDepth} = i, where \text{InterlaceDepth} is defined by ResourceSetInterlace."
REFERENCE "IEEE Std. 802.20-2008, Subclause 11.7.5.3 (SupplementalConfigAssignment)"
::= { dot20AnSectorGrpResSetsEntry 6 }
\end{verbatim}
dot20AnResourceSetRowStatus OBJECT-TYPE
SYNTAX        RowStatus
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION
"The status column used for creating, modifying, and deleting
instances of the columnar objects in the
SectorFwdChanGrpResourceSet Table. If the implementor of this
MIB has chosen not to implement 'dynamic assignment' of
sectors, this attribute is not useful and should return
noSuchName upon SNMP request."
DEFVAL         { active }
::= { dot20AnSectorGrpResSetsEntry 7 }

dot20AnSecondaryRegZoneCodeTable OBJECT-TYPE
SYNTAX        SEQUENCE OF Dot20AnSecondaryRegZoneCodeEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"This table provides one row per 802.20 interface and per
secondary registration zone code."
::= { dot20AnOverheadMessages 5 }

dot20AnSecondaryRegZoneCodeEntry OBJECT-TYPE
SYNTAX        Dot20AnSecondaryRegZoneCodeEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"An Entry (conceptual row) in the SecondaryRegZoneCode table,
which is used to trigger registration for paging. This table
is indexed by IfIndex and dot20AnSecondaryRegZoneCodeIndex.
IfIndex: Each IEEE 802.20 interface (uniquely identified by
SectorID) is represented by an ifEntry."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
INDEX
    { ifIndex, dot20AnSecondaryRegZoneCodeIndex }
::= { dot20AnSecondaryRegZoneCodeTable 1 }

dot20AnSecondaryRegZoneCodeIndex OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"Index of the secondary registration zone code for a particular
sector."
::= { dot20AnSecondaryRegZoneCodeEntry 1 }

dot20AnSecRegZoneCode OBJECT-TYPE
SYNTAX        Integer32 (0..255)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"One of the SecondaryRegistrationZoneCode for this sector"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnSecondaryRegZoneCodeEntry 2 }

dot20AnSecondaryRegZoneRowStatus OBJECT-TYPE
SYNTAX        RowStatus
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION
"The status column used for creating, modifying, and deleting
instances of the columnar objects in the SecondaryRegZoneCode
Table. If the implementor of this MIB has chosen not to
implement 'dynamic assignment' of sectors, this attribute is
not useful and should return noSuchName upon SNMP request."
DEFVAL { active }
 ::= { dot20AnSecondaryRegZoneCodeEntry 3 }

dot20AnSectorIpsiTable OBJECT-TYPE
 SYNTAX SEQUENCE OF Dot20AnSectorIpsiEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table provides one row per 802.20 interface and per
 IPSI."
 ::= { dot20AnOverheadMessages 6 }

dot20AnSectorIpsiEntry OBJECT-TYPE
 SYNTAX Dot20AnSectorIpsiEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "An Entry (conceptual row) in the SectorIpsi table, which is a
 list of personalities supported by the given sector. This table
 is indexed by IfIndex and dot20AnIpsiIndex. IfIndex: Each IEEE
 802.20 interface (uniquely identified by SectorID) is
 represented by an ifEntry."
 REFERENCE
 "IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
 INDEX
 { ifIndex }
 ::= { dot20AnSectorIpsiTable 1 }

dot20AnIpsiIndex OBJECT-TYPE
 SYNTAX Integer32 (0..7)
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "Index of an Ipsi supported by a particular sector."
 ::= { dot20AnSectorIpsiEntry 1 }

dot20AnSupportedIpsi OBJECT-TYPE
 SYNTAX Integer32 (0..15)
 MAX-ACCESS read-write
 STATUS current
 DESCRIPTION
 "IPSI supported by a particular sector"
 REFERENCE
 "IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
 ::= { dot20AnSectorIpsiEntry 2 }

dot20AnIpsiRowStatus OBJECT-TYPE
 SYNTAX RowStatus
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "The status column used for creating, modifying, and deleting
 instances of the columnar objects in the SectorIpsi Table. If
 the implementor of this MIB has chosen not to implement
 'dynamic assignment' of sectors, this attribute is not useful
 and should return noSuchName upon SNMP request."
 DEFVAL { active }
 ::= { dot20AnSectorIpsiEntry 3 }

dot20AnSectorCdmaSubSegTable OBJECT-TYPE
 SYNTAX SEQUENCE OF Dot20AnSectorCdmaSubSegEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table provides one row per 802.20 sector, interlace and
 Reverse Channel group CDMA Sub segment (see ExtendedChannelInfo
 message in AIS)."
 ::= { dot20AnOverheadMessages 8 }
dot20AnSectorCdmaSubSegEntry OBJECT-TYPE
SYNTAX        Dot20AnSectorCdmaSubSegEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION   "An Entry (conceptual row) in the AnSectorCdmaSubSeg table.
This table is indexed by ifIndex, interlaceId and
CDMASubSegmentId."
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.4.2 (ReverseChannelGroup)"
INDEX          { ifIndex, dot20AnInterlaceId }
::= { dot20AnSectorCdmaSubSegTable 1 }

dot20AnInterlaceId OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION   "Interlace Id"
::= { dot20AnSectorCdmaSubSegEntry 1 }

dot20AnCdmaSubSegmentNum OBJECT-TYPE
SYNTAX        Integer32 (0..7)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION   "Number of reverse channel CDMA Sub segment within an interlace
for a particular sector."
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.4.2 (ReverseChannelGroup)"
::= { dot20AnSectorCdmaSubSegEntry 2 }

dot20AnSectorCdmaSubSegRowStatus OBJECT-TYPE
SYNTAX        RowStatus
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION   "The status column used for creating, modifying, and deleting
instances of the columnar objects in the SectorCdmaSubSeg
Table. If the implementor of this MIB has chosen not to
implement 'dynamic assignment' of sectors, this attribute is
not useful and should return noSuchName upon SNMP request."
DEFVAL         { active }
::= { dot20AnSectorCdmaSubSegEntry 3 }

dot20AnChannelBandsTable OBJECT-TYPE
SYNTAX        SEQUENCE OF Dot20AnChannelBandsEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION   "This table provides one row per 802.20 ChannelBand. This
table's attributes specify the ChannelBand record of a
particular ChannelBand which may be used for a sector defined
in the SectorConfig table, or by a member of the neighbor list
defined in NeighborSectorsTable."
::= { dot20AnOverheadMessages 9 }

dot20AnChannelBandsEntry OBJECT-TYPE
SYNTAX        Dot20AnChannelBandsEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION   "An Entry (conceptual row) in the ChannelBands table. The
Channel Bands table is referenced by the NeighborSectorsTable
or Sector Table. This table is indexed by ChannelBandIndex."
REFERENCE      "IEEE Std. 802.20-2008, Subclause 11.6.5.4.2 (ReverseChannelGroup)"
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters),
and Subclause 15.2.1 (ChannelBand Record)"

INDEX
{ dot20AnChannelBandIndex }
::= { dot20AnChannelBandsTable 1 }

dot20AnChannelBandIndex OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Index of the ChannelBand within the ChannelBands table."
::= { dot20AnChannelBandsEntry 1 }

dot20AnSystemType OBJECT-TYPE
SYNTAX Integer32 (0..2)
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This attribute discriminates between the different ChannelBand
Records."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 15.2.1 (ChannelBand Record)"
::= { dot20AnChannelBandsEntry 2 }

dot20AnBandClass OBJECT-TYPE
SYNTAX Integer32 (0..255)
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This attribute is set to the band class number
 corresponding to the frequency assignment of the ChannelBand
 specified by this record."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 15.2.1 (ChannelBand Record)"
::= { dot20AnChannelBandsEntry 3 }

dot20AnChannelNumber OBJECT-TYPE
SYNTAX Integer32 (0..65535)
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This attribute is set to the Channel number
 corresponding to the frequency assignment of the ChannelBand
 specified by this record."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters),
and Subclause 15.2.1 (ChannelBand Record)"
::= { dot20AnChannelBandsEntry 4 }

dot20AnHalfDuplexSupported OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This attribute is set to a true if half duplex operation
is supported in this system."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 15.2.1 (ChannelBand Record)"
::= { dot20AnChannelBandsEntry 5 }

dot20AnReverseChannelBandClass OBJECT-TYPE
SYNTAX Integer32 (0..255)
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This attribute is set to the band class number
 corresponding to the frequency assignment of the reverse
ChannelBand specified by this record.

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters),
and Subclause 15.2.1 (ChannelBand Record)"
::= { dot20AnChannelBandsEntry 6 }

dot20AnReverseChannelNumber OBJECT-TYPE
SYNTAX    Integer32 (0..65535)
MAX-ACCESS read-write
STATUS     current
DESCRIPTION
"This attribute is set to the Channel number
corresponding to the frequency assignment of the Reverse
ChannelBand specified by this record."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters),
and Subclause 15.2.1 (ChannelBand Record)"
::= { dot20AnChannelBandsEntry 7 }

dot20AnCyclicPrefixLength OBJECT-TYPE
SYNTAX    Integer32 (0..3)
MAX-ACCESS read-write
STATUS     current
DESCRIPTION
"This attribute is set to the cyclic prefix length,
i.e. it is set to the quantity (N_CP-1) from the Physical
Layer."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 15.2.1 (ChannelBand Record),
and Table 165 (Specification for the u Parameter)"
::= { dot20AnChannelBandsEntry 8 }

dot20AnFFTSize OBJECT-TYPE
SYNTAX    Integer32 (0..7)
MAX-ACCESS read-write
STATUS     current
DESCRIPTION
"This attribute is set to log_2(NFFT/128)."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 15.2.1 (ChannelBand Record)"
::= { dot20AnChannelBandsEntry 9 }

dot20AnNumGuardSubcarriers OBJECT-TYPE
SYNTAX    Integer32 (0..63)
MAX-ACCESS read-write
STATUS     current
DESCRIPTION
"This attribute is set to the number of guard subcarriers
for the system on the forward channel."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 15.2.1 (ChannelBand Record)"
::= { dot20AnChannelBandsEntry 10 }

dot20AnChannelBandShortId OBJECT-TYPE
SYNTAX    Integer32 (0..3)
MAX-ACCESS read-write
STATUS     current
DESCRIPTION
"This attribute identifies the two bit index that identifies
this channel in beacon transmissions"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnChannelBandsEntry 11 }

dot20AnChannelBandAccessHashMask OBJECT-TYPE
SYNTAX    Integer32 (0..65536)
MAX-ACCESS read-write
STATUS     current
DESCRIPTION
"this attribute is set to the AccessHashingChannelMask for this channel"

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnChannelBandsEntry 12 }

dot20AnChannelBandStatus OBJECT-TYPE
SYNTAX        RowStatus
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION
"The status column used for creating, modifying, and deleting instances of the columnar objects in the ChannelBands Table. If the implementor of this MIB has chosen not to implement 'dynamic assignment' of ChannelBands, this attribute is not useful and should return noSuchName upon SNMP request."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
DEFVAL         { active }
::= { dot20AnChannelBandsEntry 13 }

dot20AnNeighborSectorsTable OBJECT-TYPE
SYNTAX        SEQUENCE OF Dot20AnNeighborSectorsEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"This table provides one row per 802.20 neighbor sector. This table's attributes specify the sector parameters of a particular neighbor sector which may be used as a neighbor to one sector defined in the SectorConfig table."
::= { dot20AnOverheadMessages 10 }

dot20AnNeighborSectorsEntry OBJECT-TYPE
SYNTAX        Dot20AnNeighborSectorsEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"An Entry (conceptual row) in the AnNeighborSectors table. This table is indexed by ChannelBandIndex, NeighborSectorIndex."
INDEX
{ dot20AnChannelBANDIndex, dot20AnNeighborSectorIndex }
::= { dot20AnNeighborSectorsTable 1 }

dot20AnNeighborSectorIndex OBJECT-TYPE
SYNTAX        Integer32 (1..2147483647)
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"Index of the Neighbor Sector for this Neighbor Carrier within the ChannelBand."
::= { dot20AnNeighborSectorsEntry 1 }

dot20AnNeighborPilotID OBJECT-TYPE
SYNTAX        Integer32 (0..1023)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"This attribute is set to the PilotID of a neighboring sector that the access terminal should add to its Neighbor Set."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 5.3.2.1 (PilotPN and PilotPhase)"
::= { dot20AnNeighborSectorsEntry 2 }

dot20AnNeighborEffTransmitPower OBJECT-TYPE
SYNTAX        Integer32 (0..63)
MAX-ACCESS    read-write
STATUS current

DESCRIPTION
"This attribute is set to the transmit power of the sector in units of dBm."

REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnNeighborSectorsEntry 3 }

dot20AnNeighborChannelBandRef OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The reference to the ChannelBand defined in ChannelBands table (dot20AnChannelBandIndex)"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnNeighborSectorsEntry 4 }

dot20AnNeighborChannelShortID OBJECT-TYPE
SYNTAX Integer32 (0..3)
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"Neighbor Sector's short Channel ID"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnNeighborSectorsEntry 5 }

dot20AnNeighborSameANAsPrimSect OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"Set true if same access network as primary sector."
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnNeighborSectorsEntry 6 }

dot20AnNeighborSectorPilotGrpId OBJECT-TYPE
SYNTAX Integer32 (0..7)
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"Neighbor Sector's Pilot Group Id"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnNeighborSectorsEntry 7 }

dot20AnNeighborSynchGroupId OBJECT-TYPE
SYNTAX Integer32 (0..7)
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"Neighbor Sector's Synchronous Group Id"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnNeighborSectorsEntry 8 }

dot20AnNeighborSectorCellGroupId OBJECT-TYPE
SYNTAX Integer32 (0..7)
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"Neighbor Sector's Cell Group Id"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnNeighborSectorsEntry 9 }
dot20AnNeighborSectorStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION "The status column used for creating, modifying, and deleting
instances of the columnar objects in the NeighborSectors
Table. If the implementor of this MIB has chosen not to
implement 'dynamic assignment' of neighbor sectors this
attribute is not useful and should return noSuchName upon SNMP
request."
REFERENCE "IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
DEFVAL { active }
::= { dot20AnNeighborSectorsEntry 10 }

dot20AnOtherTechNghbrsTable OBJECT-TYPE
SYNTAX SEQUENCE OF Dot20AnOtherTechNghbrsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "This table provides one row per other technology neighbor
channel. This table's attributes specify the technology type
and neighbor list of a particular neighbor channel which may be
used by one sector defined in the SectorConfig table for
inter-technology handoff."
::= { dot20AnOverheadMessages 11 }

dot20AnOtherTechNghbrsEntry OBJECT-TYPE
SYNTAX Dot20AnOtherTechNghbrsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "An Entry (conceptual row) in the AnOtherTechNghbrs table. This
table is indexed by Sector (ifIndex) and OtherTechnologyIndex"
INDEX { ifIndex, dot20AnOtherTechnologyIndex }
::= { dot20AnOtherTechNghbrsTable 1 }

dot20AnOtherTechnologyIndex OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "The neighbor other technology entry index"
::= { dot20AnOtherTechNghbrsEntry 1 }

dot20AnTechnologyType OBJECT-TYPE
SYNTAX Integer32 (0..255)
MAX-ACCESS read-write
STATUS current
DESCRIPTION "This attribute is set to the type of other technology.
Interpretation for its value should as defined in the AIS
spec."
REFERENCE "IEEE Std 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnOtherTechNghbrsEntry 2 }

dot20AnTechNghbrListLength OBJECT-TYPE
SYNTAX Integer32 (0..255)
MAX-ACCESS read-write
STATUS current
DESCRIPTION "This attribute is set the length, in bytes, of the
neighbor list information for the other technology."
REFERENCE
dot20AnTechnologyNeighborList OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(256))
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This attribute is set to the neighbor list information
for the other technology."
REFERENCE
"IEEE Std 802.20-2008, Subclause 11.6.5.5 (SectorParameters)"
::= { dot20AnOtherTechNghbrsEntry 3 }

dot20AnOtherTechNghbrRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The status column used for creating, modifying, and deleting
instances of the columnar objects in the OtherTechNghbrs Table.
If the implementor of this MIB has chosen not to implement
'dynamic assignment' of other technology neighbors, this
attribute is not useful and should return noSuchName upon SNMP
request."
DEFVAL { active }
::= { dot20AnOtherTechNghbrsEntry 4 }

dot20AnNeighborListTable OBJECT-TYPE
SYNTAX SEQUENCE OF Dot20AnNeighborListEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table defines the neighbor lists for the sectors defined
in the SectorConfig table. Each row in this table indexed per
sector (ifIndex) specifies a pointer to a neighbor sector of
this sector."
::= { dot20AnOverheadMessages 12 }

dot20AnNeighborListEntry OBJECT-TYPE
SYNTAX Dot20AnNeighborListEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An Entry (conceptual row) in the AnNeighborList table. This
table is indexed by Sector (ifIndex) and NeighborIndex indexing
each neighbor sector for a particular Sector."
INDEX { ifIndex, dot20AnNeighborIndex }
::= { dot20AnNeighborListTable 1 }

dot20AnNeighborIndex OBJECT-TYPE
SYNTAX Integer32 (1..32)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This index identifies one neighbor sector for a Sector."
::= { dot20AnNeighborListEntry 1 }

dot20AnNeighborSectorPointer OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This attribute points to an instance of sector in SectorConfig
table or in NeighborSectors table. This sector is defined as a
neighbor of the sector identified by the ifIndex of this
attribute's entry."
dot20AnNeighborRowStatus OBJECT-TYPE
SYNTAX        RowStatus
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION
"The status column used for creating, modifying, and deleting
instances of the columnar objects in the NeighborList Table.
If the implementor of this MIB has chosen not to implement
'dynamic assignment' of neighbor list entries this attribute is
not useful and should return noSuchName upon SNMP request."
DEFVAL         { active }
::= { dot20AnNeighborListEntry 3 }

dot20AnSectorToIfIndexTable OBJECT-TYPE
SYNTAX        SEQUENCE OF Dot20AnSectorToIfIndexEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"This table can be used to find the ifIndex of an 802.20
interface based on its SectorID and ChannelBand information
(reverse mapping of the Sector Config table)."
::= { dot20An 2 }

dot20AnSectorToIfIndexEntry OBJECT-TYPE
SYNTAX        Dot20AnSectorToIfIndexEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"An Entry (conceptual row) in the AnSectorToIfIndex table."
INDEX
{ dot20AnSectorID, ifIndex }
::= { dot20AnSectorToIfIndexTable 1 }

dot20AnIfChannelBandRef OBJECT-TYPE
SYNTAX        Integer32
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
"The reference to the ChannelBand defined in ChannelBands table
(dot20AnChannelBandIndex)"
REFERENCE
"IEEE Std. 802.20-2008, Subclause 11.6.5.5 (SectorParameters,
first instance), and Subclause 15.2.1 (ChannelBand Record)"
::= { dot20AnSectorToIfIndexEntry 1 }

dot20Cmn OBJECT-IDENTITY
STATUS        current
DESCRIPTION
"Common configuration and statistics."
::= { ieee802dot20 2 }

dot20CmnMac OBJECT-IDENTITY
STATUS        current
DESCRIPTION
"MAC layer objects"
::= { dot20Cmn 1 }

dot20CmnSessionControl OBJECT IDENTIFIER ::= { dot20CmnSessionControl 1 }
dot20CmnSessionMgtProtocol OBJECT IDENTIFIER ::= { dot20CmnSessionControl 1 }
dot20CmnSessionOpenCounts OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
"Number of sessions opened"
REFERENCE
"IEEE Std 802.20-2008, Figure 159 (Basic Session Control Protocol State Diagram (Access Network))"
::= { dot20CmnSessionMgtProtocol 1 }
dot20CmnSessionCloseCounts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of sessions closed"
REFERENCE
"IEEE Std 802.20-2008, Figure 159 (Basic Session Control Protocol State Diagram (Access Network))"
::= { dot20CmnSessionMgtProtocol 2 }
dot20CmnSessionFailureCounts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of session open/close failures"
REFERENCE
"IEEE Std 802.20-2008, Figure 159 (Basic Session Control Protocol State Diagram (Access Network))"
::= { dot20CmnSessionMgtProtocol 3 }
dot20CmnConnectionControl OBJECT IDENTIFIER ::= { dot20CmnMac 3 }
dot20CmnConnectedState OBJECT IDENTIFIER ::= { dot20CmnConnectionControl 1 }
dot20CmnActiveConnectionCounts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of current active connections (in Open state.)"
REFERENCE
"IEEE Std 802.20-2008, Figures 152 and 153"
::= { dot20CmnConnectedState 1 }
dot20CmnConnectionAttemptCounts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of connection attempts (i.e. that reached BindATI state.)"
REFERENCE
"IEEE Std 802.20-2008, Figure 152 (Basic Connected State Protocol State Diagram (AT)) and Figure 153 (Basic Connected State Protocol State Diagram (AN))"
::= { dot20CmnConnectedState 2 }
dot20CmnConnectionFailureCounts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of connection failures during connection attempt (i.e. That reached BindATI state without reaching Open state, through timeout or deactivation"
REFERENCE
"IEEE Std 802.20-2008, Figures 152 (Connect State Protocol State Diagram (AT)) and 153 (Connect State Protocol State Diagram (AN))"
::= { dot20CmnConnectedState 3 }
dot20CmnConnectionDropCounts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Number of dropped connections (via a command of
ConnectedState.Close) after a connection has been established."
REFERENCE
"IEEE Std 802.20-2008, Figures 152 (Connect State Protocol
State Diagram (AT)) and 153 (Connected State Protocol State
Diagram (AN))"
::= { dot20CmnConnectedState 4 }
dot20CmnConnectionReleaseCounts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Number of connection release (Tx ConnectionClose or
Rx ConnectionClose) after a connection has been established."
REFERENCE
"IEEE Std 802.20-2008, Figures 152 (Connect State Protocol
State Diagram (AT)) and 153 (Connected State Protocol State
Diagram (AN))"
::= { dot20CmnConnectedState 5 }
dot20CmnRadioLink OBJECT IDENTIFIER ::= { dot20CmnMac 4 }
dot20CmnRlp OBJECT IDENTIFIER ::= { dot20CmnRadioLink 2 }
dot20CmnRlpStatsTable OBJECT-TYPE
SYNTAX SEQUENCE OF Dot20CmnRlpStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table provides one row of Radio Link Protocol statistics
per 802.20 interface"
::= { dot20CmnRlp 1 }
dot20CmnRlpStatsEntry OBJECT-TYPE
SYNTAX Dot20CmnRlpStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An Entry (conceptual row) in the RlpStats table. This table is
indexed by IfIndex and dot20StreamId."
INDEX
{ ifIndex, dot20CmnStreamId }
::= { dot20CmnRlpStatsTable 1 }
dot20CmnStreamId OBJECT-TYPE
SYNTAX Integer32 (0 .. 31)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Stream Id"
::= { dot20CmnRlpStatsEntry 1 }
dot20CmnRlpBytes OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Number of RLP bytes of payload transmitted"
REFERENCE
"IEEE Std 802.20-2008, Subclause 7.3.3.4.2 (RLP Transmit
Procedures)"
::= { dot20CmnRlpStatsEntry 2 }
dot20CmnRlpReTxBytes OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of RLP bytes of payload retransmitted"
REFERENCE "IEEE Std 802.20-2008, Subclause 7.3.3.4.2 (RLP Transmit Procedures)"
::= { dot20CmnRlpStatsEntry 3 }

dot20CmnRlpTxDropBytes OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of RLP bytes of dropped before transmission"
REFERENCE "IEEE Std 802.20-2008, Subclause 7.3.3.4.2 (RLP Transmit Procedures)"
::= { dot20CmnRlpStatsEntry 4 }

dot20CmnRlpTxStatus OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of RLP ReceiverStatus messages transmitted"
REFERENCE "IEEE 802.20-2008, Subclause 7.3.4.3.3.5 (ATReceiverStatus), and Subclause 7.3.4.3.3.7 (ANReceiverStatus)"
::= { dot20CmnRlpStatsEntry 5 }

dot20CmnRlpRxBytes OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of RLP bytes of payload received"
::= { dot20CmnRlpStatsEntry 6 }

dot20CmnRlpRxStatus OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of RLP ReceiverStatus messages received"
REFERENCE "IEEE 802.20-2008, Subclause 7.3.4.3.3.5 (ATReceiverStatus), and Subclause 7.3.4.3.3.7 (ANReceiverStatus)"
::= { dot20CmnRlpStatsEntry 7 }

dot20CmnRlpTxPackets OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of RLP Packets transmitted"
REFERENCE "IEEE Std 802.20-2008, Subclause 7.3.3.4.2 (RLP Transmit Procedures)"
::= { dot20CmnRlpStatsEntry 8 }

dot20CmnRlpReTxPackets OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"Number of RLP Packets retransmitted"
REFERENCE
"IEEE Std 802.20-2008, Subclause 7.3.3.4.2 (RLP Transmit
Procedures)"
::= { dot20CmnRlpStatsEntry 9 }
dot20CmnRlpTxrDropPackets OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
"Number of RLP Packets dropped before transmission"
REFERENCE
"IEEE Std 802.20-2008, Subclause 7.3.3.4.2 (RLP Transmit
Procedures)"
::= { dot20CmnRlpStatsEntry 10 }
dot20CmnRlpRxPackets OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
"Number of RLP Packets received"
REFERENCE
"IEEE Std 802.20-2008, Subclause 7.3.3.4.3 (RLP Receive
Procedures)"
::= { dot20CmnRlpStatsEntry 11 }
dot20CmnRlpTxAckTimeouts OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
"Number of ACK Timeouts"
REFERENCE
"IEEE Std 802.20-2008, Subclause 7.3.3.4.2 (RLP Transmit
Procedures)"
::= { dot20CmnRlpStatsEntry 13 }
dot20CmnQmp OBJECT-IDENTITY
STATUS        current
DESCRIPTION
"Qos Management Protocol"
::= { dot20CmnRadioLink 3 }
dot20CmnQmpStatsTable OBJECT-TYPE
SYNTAX        SEQUENCE OF Dot20CmnQmpStatsEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"This table provides one row of QMP statistics per 802.20
interface"
::= { dot20CmnQmp 2 }
dot20CmnQmpStatsEntry OBJECT-TYPE
SYNTAX        Dot20CmnQmpStatsEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION    "An Entry (conceptual row) in the QmpStats table. This table is
indexed by IfIndex. ifIndex: Each IEEE 802.20 interface is
represented by an ifEntry."
INDEX
  { ifIndex }
::= { dot20CmnQmpStatsTable 1 }
dot20CmnActiveReservationsCounts OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION    "Number of Active (Open State) Reservations"
REFERENCE     "IEEE Std 802.20-2008, Figure 21 (Reverse Link Reservation
State Diagram (AT)), and Figure 22 (Forward Link Reservation State
Diagram (AN)."
::= { dot20CmnQmpStatsEntry 1 }
dot20CmnIdleReservationsCounts OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION    "Number of Idle (Close State) Reservations"
REFERENCE     "IEEE Std 802.20-2008, Figure 21 (Reverse Link Reservation
State Diagram (AT)), and Figure 22 (Forward Link Reservation State
Diagram (AN)."
::= { dot20CmnQmpStatsEntry 2 }
dot20CmnReservationOpenCounts OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION    "Number of Reservations Open requests"
REFERENCE     "IEEE Std 802.20-2008, Figure 21 (Reverse Link Reservation
State Diagram (AT)), Figure 22 (Forward Link Reservation State
Diagram (AN), Subclause 7.2.3.3.1 (ReservationOnRequest), and
Subclause 7.2.3.3.6 (RevReservationOn)."
::= { dot20CmnQmpStatsEntry 3 }
dot20CmnReservationCloseCounts OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION    "Number of Reservations Close requests"
REFERENCE     "IEEE Std 802.20-2008, Figure 21 (Reverse Link Reservation
State Diagram (AT)), Figure 22 (Forward Link Reservation State
Diagram (AN), Subclause 7.2.3.3.2 (ReservationOffRequest),
and Subclause 7.2.3.3.7 (RevReservationOn)."
::= { dot20CmnQmpStatsEntry 4 }
dot20CmnReservationFailCounts OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION    "Number of Failed Reservations requests"
REFERENCE     "IEEE Std 802.20-2008, Subclause 7.2.3.3.5 (ReservationReject)"
::= {dot20CmnQmpStatsEntry 5 }
dot20CmnSecurity OBJECT IDENTIFIER ::= {dot20CmnMac 5 }
dot20CmnKeyExchangeProtocol OBJECT IDENTIFIER ::= {dot20CmnSecurity 1 }
dot20CmnKeyExchangeAttemptCounts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of key exchanges attempts"
REFERENCE :
"IEEE Std 802.20-2008, Subclause 10.4.5.2.1 (KeyRequest)"
::= {dot20CmnKeyExchangeProtocol 1 }
dot20CmnKeyExchangeFailureCounts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of key exchanges failures"
REFERENCE :
"IEEE Std 802.20-2008, Subclause 10.4.5.2.4 (KeyReject)"
::= {dot20CmnKeyExchangeProtocol 2 }
dot20CmnMessageIntegrityProtocol OBJECT IDENTIFIER ::= {dot20CmnSecurity 2 }
dot20CmnAuthStatsTable OBJECT-TYPE
SYNTAX SEQUENCE OF Dot20CmnAuthStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "This table provides one row of Authentication statistics per 802.20 interface (i.e. sector for a specific ChannelBand.)"
::= {dot20CmnMessageIntegrityProtocol 1 }
dot20CmnAuthStatsEntry OBJECT-TYPE
SYNTAX Dot20CmnAuthStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Authentication statistics per 802.20 interfaces"
INDEX {ifIndex }
::= {dot20CmnAuthStatsTable 1 }
dot20CmnAuthFailureCounts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of Authentication failures (i.e. failure code 0x03 for RouteOpenReject.)"
REFERENCE :
"IEEE Std 802.20-2008, Subclause 13.2.6.2.1 (RouteOpenRequest), and Subclause 13.2.6.12 (RouteOpenReject)"
::= {dot20CmnAuthStatsEntry 1 }
dot20CmnAuthSuccessCounts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Number of successful Authentications"
REFERENCE :
"IEEE Std 802.20-2008, Subclause 13.2.6.2.1
(RouteOpenRequest), and Subclause 13.2.6.3
(RouteOpenAccept)
::= { dot20CmnAuthStatsEntry 2 }
dot20CmnLowerMAC OBJECT IDENTIFIER ::= { dot20Cmn 6 }
dot20CmnLMACPacketStatsTable OBJECT-TYPE
SYNTAX        SEQUENCE OF Dot20CmnLMACPacketStatsEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"This table provides one row of Lower MAC protocol statistics
per 802.20 interface, packet format and nb of ARQ attempts
needed in order to successfully transmit/receive a packet."
::= { dot20CmnLowerMAC 1 }
dot20CmnLMACPacketStatsEntry OBJECT-TYPE
SYNTAX        Dot20CmnLMACPacketStatsEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"An Entry (conceptual row) in the LMACPacketStats table. This
table is indexed by IfIndex, PacketFormatIndex and
ARQAttemptsIndex."
INDEX
{ ifIndex, dot20CmnPacketFormatIndex, dot20CmnARQAttemptsIndex
::= { dot20CmnLMACPacketStatsTable 1 }
dot20CmnPacketFormatIndex OBJECT-TYPE
SYNTAX        Integer32 (0..15)
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"The packet format index as defined in 802.20 AIS spec."
::= { dot20CmnLMACPacketStatsEntry 1 }
dot20CmnARQAttemptsIndex OBJECT-TYPE
SYNTAX        Integer32 (0..15)
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"Number of ARQ attempts that were needed in order to transmit
or receive a packet. Index 0 means that the packets failed to
be transmitted/received."
::= { dot20CmnLMACPacketStatsEntry 2 }
dot20CmnFwdTxPacketCounts OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
"Number of transmitted packets"
REFERENCE
"IEEE Std 802.20-2008, Subclause 8.6.5.5.2.2 (F-DCH TX Associated
with Persistent Assignments), Subclause 8.6.5.5.2.3 (F-DCH TX
Associated with Non-Persistent Assignments and Residual Resource
Assignments), and Subclause 8.6.5.5.2.4 (F-DCH TX Associated with
Group Resource Assignments)"
::= { dot20CmnLMACPacketStatsEntry 3 }
dot20CmnRevRxPacketCounts OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
"Number of received packets"
REFERENCE

"IEEE Std 802.20-2008,
Subclause 8.6.5.5.1.2.2 (AT Processing for Non-Persistent Assignments),
Subclause 8.6.5.5.1.2.3 (AT Processing for Residual Resource Assignments),
Subclause 8.6.5.5.1.2.4 (AT Processing for Group Resource Assignments)"
::= { dot20CmnLMACPacketStatsEntry 4 }
dot20CmnLMACStatsTable OBJECT-TYPE
SYNTAX        SEQUENCE OF Dot20CmnLMACStatsEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"This table provides one row of Lower MAC protocol statistics per 802.20 interface and packet formats."
::= { dot20CmnLowerMAC 2 }
dot20CmnLMACStatsEntry OBJECT-TYPE
SYNTAX        Dot20CmnLMACStatsEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
"An Entry (conceptual row) in the LMACStats table. This table is indexed by IfIndex, PacketFormatIndex."
INDEX
  { ifIndex, dot20CmnPacketFormatIndex }
::= { dot20CmnLMACStatsTable 1 }
dot20CmnFLABCounts OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
"Number of Forward Link Assignment Blocks"
REFERENCE
"IEEE Std 802.20-2008, Table 44 (F-SCCH Blocks), and Subclause 8.5.5.4.1.2 (Framing of F-SCCH Blocks)"
::= { dot20CmnLMACStatsEntry 1 }
dot20CmnRLABCounts OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
"Number of Reverse Link Assignment Blocks"
REFERENCE
"IEEE Std 802.20-2008, Table 44 (F-SCCH Blocks), and Subclause 8.5.5.4.1.2 (Framing of F-SCCH Blocks), and Subclause 8.5.5.3.1.1.3.3 (RLAB)"
::= { dot20CmnLMACStatsEntry 2 }
dot20CmnAccessGrantCounts OBJECT-TYPE
SYNTAX        Counter64
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
"Number of Access Grants (the number of times the indication ForwardLinkControlSegmentMAC.AccessGrantSent is raised)"
REFERENCE
"IEEE Std 802.20-2008, Subclause 8.5.5.4.1.1.3.1.1 (Procedures for Sending an Access Grant)"
::= { dot20CmnLMACStatsEntry 3 }
dot20Conformance OBJECT IDENTIFIER ::= { ieee802dot20 4 }
dot20Groups OBJECT IDENTIFIER ::= { dot20Conformance 1 }
dot20CmnSessionMgtPGroup OBJECT-GROUP
OBJECTS
  { dot20CmnSessionCloseCounts, dot20CmnSessionFailureCounts,
    dot20CmnSessionOpenCounts }
STATUS        current
DESCRIPTION    "The session management protocol statistics"
 ::= { dot20Groups 1 }

dot20CmnKeyExchangePGroup OBJECT-GROUP
OBJECTS
  { dot20CmnKeyExchangeAttemptCounts, 
    dot20CmnKeyExchangeFailureCounts }
STATUS        current
DESCRIPTION    "The key exchange protocol statistics"
 ::= { dot20Groups 4 }

dot20CmnConnectedStatePGroup OBJECT-GROUP
OBJECTS
  { dot20CmnActiveConnectionCounts, 
    dot20CmnConnectionAttemptCounts, dot20CmnConnectionDropCounts, 
    dot20CmnConnectionFailureCounts, dot20CmnConnectionReleaseCounts }
STATUS        current
DESCRIPTION    "The connected state protocol statistics"
 ::= { dot20Groups 5 }

dot20CmnRadioLinkGroup OBJECT-GROUP
OBJECTS
  { dot20CmnActiveReservationsCounts, 
    dot20CmnIdleReservationsCounts, dot20CmnReservationCloseCounts, 
    dot20CmnReservationFailCounts, dot20CmnReservationOpenCounts, 
    dot20CmnRevRxPacketCounts, dot20CmnRlpReTxBytes, 
    dot20CmnRlpReTxPackets, dot20CmnRlpRxBytes, 
    dot20CmnRlpRxPackets, dot20CmnRlpRxStatus, 
    dot20CmnRlpTxACKTimeouts, dot20CmnRlpTxBytes, 
    dot20CmnRlpTxDropBytes, dot20CmnRlpTxNARTimeouts, 
    dot20CmnRlpTxPackets, dot20CmnRlpTxStatus, 
    dot20CmnRlpTxdropPackets }
STATUS        current
DESCRIPTION    "The radio link layer statistics"
 ::= { dot20Groups 7 }

dot20CmnAuthGroup OBJECT-GROUP
OBJECTS
  { dot20CmnAuthFailureCounts, dot20CmnAuthSuccessCounts }
STATUS        current
DESCRIPTION    "The authentication protocol statistics"
 ::= { dot20Groups 8 }

dot20CmnLowerMACGroup OBJECT-GROUP
OBJECTS
  { dot20CmnAccessGrantCounts, dot20CmnFLABCounts, 
    dot20CmnFwdTxPacketCounts, dot20CmnRLABCounts, 
    dot20CmnRevRxPacketCounts }
STATUS        current
DESCRIPTION    "The lower mac sublayer statistics"
 ::= { dot20Groups 9 }

dot20AnIdleStatePGroup OBJECT-GROUP
OBJECTS
  { dot20AnAccessAttemptCounts, dot20AnAccessAttemptFailCounts,
dot20AnPageAttemptCounts, dot20AnPageFailureCounts }

STATUS current

DESCRIPTION "The An idle state protocol statistics"
::= { dot20Groups 10 }

dot20AnOverheadGroup OBJECT-GROUP

OBJECTS

{ dot20An16QamScchT2PRatio, dot20AnAccessCycleDuration,
dot20AnAccessRetryPersistence0, dot20AnAccessRetryPersistence1,
dot20AnAccessRetryPersistence2, dot20AnAccessRetryPersistence3,
dot20AnAccessRetryPersistence4, dot20AnAccessRetryPersistence5,
dot20AnAccessRetryPersistence6, dot20AnAccessRetryPersistence7,
dot20AnAckInterferenceOffset, dot20AnGroupId,
dot20AnAssignmentAckHARQTx, dot20AnBRCHSubzoneCyclingEnabled,
dot20AnBandClass, dot20AnCBBandSubcarriers,
dot20AnCDMAInterlacesBitmap, dot20AnCQIPilotTransmitPower,
dot20AnCdmaSubSegmentNum, dot20AnCellGroupID, dot20AnCellNullID,
dot20AnChannelBandAccessMask, dot20AnChannelBandRef,
dot20AnChannelBandShortID, dot20AnChannelNumber,
dot20AnCommonPilotTransmitPower, dot20AnCpichHoppingMode,
dot20AnCtrlAccessOffset, dot20AnCyclicPrefixLength,
dot20AnEffectiveTransmitPower, dot20AnEnableExpandedQPSCH,
dot20AnErasureTargetCtoI0, dot20AnErasureTargetCtoI1,
dot20AnErasureTargetCtoI2, dot20AnErasureTargetCtoI3,
dot20AnFACKbandwidthFactor, dot20AnFFTSize,
dot20AnFDPICHCodeOffsetSubtree0, dot20AnFDPICHCodeOffsetSubtree1,
dot20AnFDPICHCodeOffsetSubtree2, dot20AnFDPICHCodeOffsetSubtree3,
dot20AnFLReservedInterlaces, dot20AnFLPilotReportInterval,
dot20AnFPCReportInterval, dot20AnFLPqiReportInterval,
dot20AnFlsDMAsubtrees, dot20AnF1SubzoneSize,
dot20AnHalfDuplexModeSupported, dot20AnHalfDuplexSupported,
dot20AnIfChannelBandRef, dot20AnLatitude, dot20AnLeapSeconds,
dot20AnLocalTimeOffset, dot20AnLongitude, dot20AnMacIDRange,
dot20AnMax16QamScchBlocks, dot20AnMaxNumLABs, dot20AnMaxNumSharedLABs,
dot20AnMaxProbesPerSequence, dot20AnMinScchResourceIndex,
dot20AnMobileCountryCode, dot20AnMobileNetworkCode,
dot20AnNeighborPilotID, dot20AnNeighborChannelShortID,
dot20AnNeighborSameANAsPrimSect, dot20AnNeighborSectorCellGroupID,
dot20AnNeighborSectorPilotGrapId, dot20AnNeighborChannelBandRef,
dot20AnNeighborSectorPointer, dot20AnNeighborSyncGroupID,
dot20AnNeighborEffTransmitPower, dot20AnNumAckableLABs,
dot20AnNumCmnPilotTxAnt, dot20AnNumCommonSegmentHopPorts,
dot20AnNumDRCCHSubzones, dot20AnNumEffectiveAntennas,
dot20AnNumFLReservedSubzones,
dot20AnNumGuardSubcarriers, dot20AnNumLABSegments,
dot20AnNumScchReports, dot20AnNumRLCdmaSubsegments,
dot20AnNumResourceSubzones, dot20AnNumSilenceIntervalSubzones,
dot20AnOpenLoopAdjust, dot20AnOsiResponseMode,
dot20AnPcResSharingEnabled, dot20AnPilotGroupID, dot20AnPilotID,
dot20AnPilotThreshold1, dot20AnPilotThreshold2,
dot20AnPrimaryRegZoneCode, dot20AnProbeRampUpStepSize,
dot20AnRabEnabled, dot20AnRackBandwidthFactor,
dot20AnReqQoSPowerBoost, dot20AnResourceChannelMuxMode,
dot20AnResourceSetBitmap, dot20AnResourceSetSubzoneSpacing,
dot20AnResourceSubzoneOffset, dot20AnReverseChannelBandClass,
dot20AnReverseChannelNumber, dot20AnRlAuxPilotPower,
dot20AnRlDpichCodeOffsetSubtree0, dot20AnRlDpichCodeOffsetSubtree1,
dot20AnRlDpichCodeOffsetSubtree2, dot20AnRlDpichCodeOffsetSubtree3,
dot20AnRltNumSdmaDimensions, dot20AnModSymbolsPerQPSKLAB,
dot20AnSPMCCellID, dot20AnSecRegZoneCode, dot20AnSectorID,
dot20AnSilenceIntervalDuration, dot20AnSilenceIntervalPeriod,
dot20AnSinglePAforXCarriers, dot20AnSlowInterferenceOffset,
dot20AnSupportedIpsi, dot20AnSynchronousGroupID, dot20AnSystemType,
dot20AnTechNeighborListLength, dot20AnTechnologyNeighborList,
dot20AnUseDrchForFlcs, dot20AnRlSubzoneSize }
STATUS       current
DESCRIPTION "The overhead messages protocol configuration"
::= { dot20Groups 11 }

dot20AnOverheadGroup2 OBJECT-GROUP
OBJECTS
{ dot20AnChannelBandStatus, dot20AnIpsiRowStatus,
dot20AnNeighborRowStatus, dot20AnNeighborSectorStatus,
dot20AnOtherTechNghbrRowStatus, dot20AnResourceSetRowStatus,
dot20AnSecondaryRegZoneRowStatus,
dot20AnSectorCdmaSubSegRowStatus, dot20AnSectorConfigRowStatus,
dot20AnSectorExtChanRowStatus, dot20AnSectorParamRowStatus }
STATUS       current
DESCRIPTION "If the MIB is created with pre-configured sector list tables and
neighbor list tables, this Overhead Group is unnecessary. Otherwise,
these items are used to add rows to these tables in the MIB, so
that additional sectors and/or neighbors can be added after MIB
creation, through SNMPv2."
::= { dot20Groups 12 }

dot20Compliances OBJECT IDENTIFIER ::= { dot20Conformance 2 }
dot20AnCompliance MODULE-COMPLIANCE
STATUS       current
DESCRIPTION "The compliance statement for SNMPv2 entities that implement
the IEEE 802.20 MIB for the An."
MODULE       IEEE802dot20-MIB
MANDATORY-GROUPS
{ dot20AnIdleStatePGroup, dot20AnOverheadGroup,
dot20CmnAuthGroup, dot20CmnConnectedStatePGroup,
dot20CmnKeyExchangePGroup, dot20CmnLowerMACGroup,
dot20CmnRadioLinkGroup, dot20CmnSessionMgtPGroup }
GROUP       dot20AnOverheadGroup2
DESCRIPTION "This group is required only if 'dynamic assignment' of
rows in the OverheadGroup tables is supported."
::= { dot20Compliances 1 }

END