

**IEEE Standard for
Local and metropolitan area networks—**

**Part 20: Air Interface for Mobile
Broadband Wireless Access Systems
Supporting Vehicular Mobility—
Physical and Media Access Control Layer
Specification**

Amendment 1: Management Information
Base Enhancements and Corrigenda Items

IEEE Computer Society

Sponsored by the
LAN/MAN Standards Committee

IEEE
3 Park Avenue
New York, NY 10016-5997
USA

9 December 2010

IEEE Std 802.20a™-2010

(Amendment to
IEEE Std 802.20™-2008)

Withdrawn Standard

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Part 20: Air Interface for Mobile Broadband Wireless Access Systems Supporting Vehicular Mobility— Physical and Media Access Control Layer Specification

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**LAN/MAN Standards Committee
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Approved 8 December 2010

IEEE-SA Standards Board

Withdrawn Standard

Abstract: This amendment enhances IEEE 802.20 Management Information Base (MIB) clauses to include additional information and MIB documentation (i.e., a discussion of security impacts, and cross references to the text for appropriate parameters within the MIB, itself) to conform with the applicable parts of the IETF's 2008 guidelines for MIBs. The amendment also corrects any errors, inconsistencies, and ambiguities associated with the MIB clause of IEEE Std 802.20-2008.

Keywords: 802.20, Management Information Base, MIB

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Introduction

This introduction is not part of IEEE Std 802.20a-2010, IEEE Standard for Local and metropolitan area networks—Air Interface for Mobile Broadband Wireless Access Systems Supporting Vehicular Mobility—Physical and Media Access Control Layer Specification—Amendment 1: Management Information Base Enhancements and Corrigenda Items.

This amendment enhances the IEEE 802.20 Management Information Base (MIB) clauses to include additional information and MIB documentation (i.e., a discussion of Security impacts, and cross references to the text for appropriate parameters within the MIB, itself) to conform with the applicable parts of the IETF's 2008 guidelines for MIBs. The amendment also corrects any errors, inconsistencies, and ambiguities associated with the MIB clause of IEEE Std 802.20-2008.

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IEEE Standard for Local and metropolitan area networks—

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Amendment 1: Management Information Base Enhancements and Corrigenda Items

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Editorial Note

The editing instructions contained in this amendment define how to merge the material contained therein into the existing base standard and its amendments to form the comprehensive standard. The editing instructions are shown in ***bold italics***. Three editing instructions are used: ***change***, ***delete***, and ***insert***. ***Change*** is used to make a change to existing material. The editing instruction specifies the location of the change and describes what is being changed. Changes to existing text may be clarified using ~~strikeout~~ markings to indicate removal of old material, and underscore markings to indicate addition of new material). ***Delete*** removes existing material. ***Insert*** adds new material without changing the existing material. Insertions may require renumbering. If so, renumbering instructions are given in the editing instruction. Editing instructions, change markings, and this NOTE will not be carried over into future editions because the changes will be incorporated into the base standard.

Changes are applied to the base text of IEEE Std 802.20-2008.

Replace Clause 17 of IEEE Std 802.20-2008 with the following text:

17. MAC and PHY MIB

17.1 Overview

This clause 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, IETF RFC 2578, IETF RFC 2579, and IETF RFC 2580.

17.2 MIB structure

The MIB structure is based on the architecture reference model in Figure 1 and the layering architecture for the air interface in Figure 2. The MIB object is composed of the following 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.

17.3 Security considerations

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

The MIB objects in the Dot20AnChannelBandsEntry SEQUENCE contain eight 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 could 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 could 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 can read the overhead channels from other sectors, including those whose MIB may have become compromised or corrupted due to unauthorized access. Such terminals could therefore incorporate incorrect handoff information into their databases of potential sectors for handoff. Thus, unauthorized access to 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) can 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 IEEE 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 whom 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 IETF RFC 3410, 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 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 that have legitimate rights to indeed GET or SET (change/create/delete) them.

17.4 IANA considerations

No IANA actions are required by this clause.

17.5 Definition¹

```
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 "201010041622PDT" -- October 4, 2010
```

```
    ORGANIZATION
```

```
        "IEEE 802.20"
```

```
    CONTACT-INFO
```

```
        "WG URL: ieee802.org/20"
```

```
        Contact: J. Tomcik Postal: 5775 Morehouse Dr
```

```
        San Diego, CA, 92121, USA Tel: 858-658-3231
```

```
        Fax: 858-658-3231
```

```
        E-mail: jtomcik@qualcomm.com "
```

¹ Copyright release for MIB definitions: Users of this standard may freely reproduce the MIB definitions in this annex so it can be used for its intended purpose.

DESCRIPTION

"The MIB module for IEEE 802.20 entities."

```
::= { iso (1) iso-identified-organization (3) ieee (111)
standardsassociation-numbered-series-standards (2) lan-man-stds (802)
ieee802dot20 (20) ieee802dot20mibs (1) ieee802dot20widebandMIB (1) }
```

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,
    dot20AnNeighborSectorCellGroupId Integer32,
    dot20AnNeighborSectorStatus      RowStatus
}
```

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,
    dot20AnNumCommonSegmentHopPorts Integer32,
    dot20AnNumLABSegments           Integer32,
    dot20AnMinScchResourceIndex      Integer32,
    dot20AnSinglePAForXCarriers      Integer32,
    dot20AnFlSdmaNumSubtrees        Integer32,
    dot20AnFDPICHCodeOffsetSubtree0 Integer32,
    dot20AnFDPICHCodeOffsetSubtree1 Integer32,
    dot20AnFDPICHCodeOffsetSubtree2 Integer32,
    dot20AnFDPICHCodeOffsetSubtree3 Integer32,
    dot20AnNumCmnPilotTxAnt          Integer32,
    dot20AnModSymbolsPerQPSKLAB      Integer32,
    dot20AnUseDrchForFlcs            Integer32,
    dot20AnEnableExpandedQPCH        TruthValue,
    dot20AnSectorConfigRowStatus     RowStatus
}

```

```

Dot20AnSectorExtChanInfoEntry ::= SEQUENCE
{
    dot20AnPilotID                Integer32,
    dot20AnHalfDuplexModeSupported TruthValue,
    dot20AnFACKBandwidthFactor     Integer32,
    dot20AnSFNCeIIID              Integer32,
    dot20AnCellNullID             Integer32,
    dot20AnMaxNumSharedLABs        Integer32,
    dot20AnMaxNumLABs              Integer32,
    dot20AnMax16QamScchBlocks      Integer32,
    dot20AnPdCabResSharingEnabled   TruthValue,
    dot20AnNumAckableLABs          Integer32,
    dot20An16QamScchT2PRatio       INTEGER,
    dot20AnEffectiveTransmitPower   Integer32,
    dot20AnAssignmentAckHARQTx     Integer32,
    dot20AnCQIPilotTransmitPower   Integer32,
    dot20AnCommonPilotTransmitPower Integer32,
    dot20AnCDMAInterlacesBitmap    Integer32,
    dot20AnNumOdcchReports         Integer32,
    dot20AnNumRLCdmaSubsegments    Integer32,
    dot20AnRackBandwidthFactor      Integer32,
    dot20AnRlNumSdmaDimensions     Integer32,
    dot20AnRlDpichCodeOffsetSubtree0 Integer32,
    dot20AnRlDpichCodeOffsetSubtree1 Integer32,
    dot20AnRlDpichCodeOffsetSubtree2 Integer32,
    dot20AnRlDpichCodeOffsetSubtree3 Integer32,
    dot20AnRlSubzoneSize           Integer32,
    dot20AnSilenceIntervalPeriod    Integer32,
}

```

```

dot20AnSilenceIntervalDuration      Integer32,
dot20AnNumSilenceIntervalSubzone    Integer32,
dot20AnAckInterferenceOffset         Integer32,
dot20AnMacIdRange                    INTEGER,
dot20AnFlPcReportInterval            Integer32,
dot20AnFlPqiReportInterval           Integer32,
dot20AnFlIotReportInterval           Integer32,
dot20AnFastIoTEnabled                TruthValue,
dot20AnFastOSIEnabled                TruthValue,
dot20AnRabEnabled                    TruthValue,
dot20AnOsiResponseMode               INTEGER,
dot20AnSlowInterferenceOffset         Integer32,
dot20AnCtrlAccessOffset              Integer32,
dot20AnRlAuxPilotPower               Integer32,
dot20AnReqQoSPowerBoost               Integer32,
dot20AnErasureTargetCtoI0            Integer32,
dot20AnErasureTargetCtoI1            Integer32,
dot20AnErasureTargetCtoI2            Integer32,
dot20AnErasureTargetCtoI3            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,
    dot20AnAnGroupId                     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,
    dot20CmnRlpTxrDropPackets 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(see 11.5.5.8). 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, 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, and Table 358
(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 to 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 clause."
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 ResourceChannelMuxMode=0, this parameter is set to
        64 and if
        ResourceChannelMuxMode=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),
        zeroToFour(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 285 (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 number of
    effective 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."
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 (SinglePAForMultipleChannelBands)"
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. (FLNumSDMADimensions)"
    REFERENCE
        "IEEE Std 802.20-2008 Subclause 11.6.5.3 (QuickChannelInfo Block)"
 ::= { dot20AnSectorConfigEntry 42 }

dot20AnFLDPICHCodeOffsetSubtreeIndex0 OBJECT-TYPE
    SYNTAX      Integer32 (0..3)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This field is set to the code offset 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) and Subclause 11.6.5.4.1 (ForwardChannelGroup)"
 ::= { dot20AnSectorConfigEntry 43 }

dot20AnFLDPICHCodeOffsetSubtreeIndex1 OBJECT-TYPE
    SYNTAX      Integer32 (0..3)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This field is set to the code offset 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 }

dot20AnFLDPICHCodeOffsetSubtree2 OBJECT-TYPE
    SYNTAX      Integer32 (0..3)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This field is set to the code offset 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 }

dot20AnFLDPICHCodeOffsetSubtreeIndex3 OBJECT-TYPE
    SYNTAX      Integer32 (0..3)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This field is set to the code offset 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 specifies the number of common pilot
        transmit antennas."
    REFERENCE
        "IEEE Std. 802.20-2008, Table 90 (NumEffectiveAntennas), Subclause
        9.4.1.2.3.1.1 (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 287 (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. It is set to
        1 if the hopping pattern is DRCH on the FLCS, and is set to 0 otherwise"
    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 applicable
        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
        { ifIndex }
    ::= { 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 9.2.2.2.3 (PilotID and SectorSeed)"
    ::= { 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 11.7.5.4 (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 }

dot20AnSFNCcellID 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 Broadcast Multicast Service)"
REFERENCE
    "IEEE Std. 802.20-2008, Subclause 11.6.5.4.1 (ForwardChannelGroup),
    and Subclause 9.2.2.2.2 (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 Lower MAC Sublayer. 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 (denoted 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 $(-4 + n \cdot 0.5)$ 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 'th bit of this field is set to 1 if interlace i contains a Reverse Link CDMA Segment. 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 137, and Subclause 11.6.5.4.2 (ReverseChannelGroup)"
::= { 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 137, and Subclause 11.6.5.4.2 (ReverseChannelGroup)"
::= { 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 137, and Subclause 11.6.5.4.2 (ReverseChannelGroup)"
::= { 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 137, and Subclause 11.6.5.4.2 (ReverseChannelGroup)"
::= { 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 137 and
        Subclause 11.6.5.4.2 (ReverseChannelGroup)"
        ::= { dot20AnSectorExtChanInfoEntry 31 }

dot20AnRLDPichCodeOffsetSubtreeIndex0 OBJECT-TYPE
    SYNTAX      Integer32 (0..3)
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "This field is set to the code offset for subtree 0"
    REFERENCE
        "IEEE Std. 802.20-2008, Table 185 (Physical Layer Numeric Constants
and Parameters), and
        Subclause 11.6.5.4.2 (Reverse Channel Group)"
        ::= { dot20AnSectorExtChanInfoEntry 32 }

dot20AnRLDPichCodeOffsetSubtreeIndex1 OBJECT-TYPE
    SYNTAX      Integer32 (0..3)
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "This field is set to the code offset for subtree 1"
    REFERENCE
        "IEEE Std. 802.20-2008, Table 185 (Physical Layer Numeric Constants
and Parameters), and
        Subclause 11.6.5.4.1 (Reverse Channel Group)"
        ::= { dot20AnSectorExtChanInfoEntry 33 }

dot20AnRLDPichCodeOffsetSubtreeIndex2 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 185 (Physical Layer Numeric Constants
and Parameters), and
        Subclause 11.6.5.4.1 (Reverse Channel Group)"
        ::= { dot20AnSectorExtChanInfoEntry 34 }

dot20AnRLDPichCodeOffsetSubtreeIndex3 OBJECT-TYPE
    SYNTAX      Integer32 (0..3)
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "This field is set to the code offset for subtree 3"
    REFERENCE
        "IEEE Std. 802.20-2008, Table 185 (Physical Layer Numeric Constants
and Parameters), and
        Subclause 11.6.5.4.1 (Reverse Channel Group)"
        ::= { 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 185 (Physical Layer Numeric Constants
and Parameters), and
        Subclause 11.6.5.4.2 (Reverse Channel Group)"
        ::= { 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 parameter"
 REFERENCE
 "IEEE Std. 802.20-2008, Table 185 (Physical Layer Numeric Constants
 and Parameters), 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 185 (Physical Layer Numeric Constants
 and Parameters), 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 185 (Physical Layer Numeric Constants
 and Parameters), 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 can 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
        field"
    REFERENCE
        "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
    ::= { dot20AnSectorExtChanInfoEntry 45 }

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 takes the value 1, 8,
        16, or 32, depending on the two bit field taking values 0, 1, 2, or 3.
        "
    REFERENCE
        "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
    ::= { dot20AnSectorExtChanInfoEntry 46 }

dot20AnIoTEEnabled OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
        "This field determines if the sector transmits IOT"
    REFERENCE
        "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
    ::= { dot20AnSectorExtChanInfoEntry 47 }

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 48 }

```

```

dot20AnRabEnabled OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
        "This field is set to TRUE if this sector transmits RAB, and
         is set to FALSE otherwise"
    REFERENCE
        "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
    ::= { dot20AnSectorExtChanInfoEntry 49 }

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. It is set to
         0 for stochastic response and is set to 1 for deterministic response."
    REFERENCE
        "IEEE Std. 802.20-2008, Subclause 11.6.5.4.3 (PowerControlGroup)"
    ::= { dot20AnSectorExtChanInfoEntry 50 }

dot20AnSlowInterferenceOffset OBJECT-TYPE
    SYNTAX      Integer32 (0..15)
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
        "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 parameter"
    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 parameter specifies a power boost value for r-reqch
         transmissions on R-CDCCH for flows that allow request boost, and takes the

```

values 0, 1, 3, or 5 dB when the two-bit field is set to '00', '01', '10', or '11', respectively.

```

"
    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 (denoted n) determines the target C/I value of
        erasure sequences for different assignment sizes. The
        transmit power is equal to n-12 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 (denoted n) determines the target C/I value of
        erasure sequences for different assignment sizes. The
        transmit power is equal to n-12 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 (denoted n) determines the target C/I value of
        erasure sequences for different assignment sizes. The
        transmit power is equal to n-12 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 (denoted n) determines the target C/I value of
        erasure sequences for different assignment sizes. The
        transmit power is equal to n-12 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 (denoted n) 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 (denoted 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 (denoted 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 (denoted 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 (denoted 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 }

dot20AnAccessRetryPersistence0 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 (n<7), the access terminal will use 2^(-n/2) as the
        retry persistence. For n=7, the access terminal will set
        AccessRetryPersistence0 to 0."
    REFERENCE
        "IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
        Group)"
    ::= { dot20AnSectorExtChanInfoEntry 65 }

dot20AnAccessRetryPersistence1 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 (n<7), the access terminal will use 2^(-n/2) as the
        retry persistence. For n=7, the access terminal will set
        AccessRetryPersistence1 to 0."
    REFERENCE
        "IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters
        Group)"
    ::= { dot20AnSectorExtChanInfoEntry 66 }

dot20AnAccessRetryPersistence2 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 (n<7), the access terminal will use 2^(-n/2) as the
        retry persistence. For n=7, the access terminal will set
        AccessRetryPersistence2 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 (n<7), the access terminal will use 2^(-n/2) as the
        retry persistence. For n=7, the access terminal sets
        AccessRetryPersistence3 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 (n<7), the access terminal will use $2^{(-n/2)}$ as the retry persistence. For n=7, the access terminal sets AccessRetryPersistence4 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 (n<7), the access terminal will use $2^{(-n/2)}$ as the retry persistence. For n=7, the access terminal sets AccessRetryPersistence5 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 (n<7), the access terminal will use $2^{(-n/2)}$ as the retry persistence. For n=7, the access terminal sets AccessRetryPersistence6 to 0."

REFERENCE

"IEEE Std. 802.20-2008, Subclause 11.6.5.4.4 (AccessParameters Group)"

::= { dot20AnSectorExtChanInfoEntry 71 }

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 (n<0), the access terminal will use $2^{(-n/2)}$ as the retry persistence. For n=7, the access terminal sets AccessRetryPersistence7 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 16.2.2.."
    REFERENCE

```