IEEE P802.19  
Wireless Coexistence

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| Proposed resolution to comment to ASN.1 data type definition for COEX\_MEDIA\_SAP | | | | |
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Abstract

This document is a submission to IEEE 802.19 TG1 proposing resolution to comment to ASN1 data type definition for COEX\_MEDIA\_SAP.

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# Proposed resolution

*It is proposed to modify the current text in 4.3.2 COEX\_MEDIA\_SAP as shown below:*

IEEE802191MSAPDataType DEFINITIONS AUTOMATIC TAGS::= BEGIN

SubscribedService ::= ENUMERATED{

information,

management

}

NetworkTechnology ::= ENUMERATED{

ieee802dot11af,

ieee802dot22,

ECMA392,

…

}

NetworkType ::= ENUMERATED{

fixed,

mode2,

mode1,

…

}

Geolocation :: = SEQUENCE {

latitude REAL,

longitude REAL,

altitude REAL

}

DiscoveryInformation ::= SEQUENCE{

geolocation Geolocation

maxTxPower REAL,

rxSensitivity REAL,

antennaGain REAL,

minReqSNR REAL,

TolerableInterferenceLevel real,

antennaHeight REAL,

…

}

FrequencyRange ::= SEQUENCE{

startFreq REAL,

stopFreq REAL

}

ListOfSupportedFrequencies ::= SEQUENCE OF FrequencyRange

OperatingFrequency ::= SEQUENCE {

frequencyRange FrequencyRange,

occupancy REAL,

totalOccupancy REAL OPTIONAL

}

ListOfOperatingFrequencies ::= SEQUENCE OF OperatingFrequency

InterferenceDirection ::= ENUMERATED {

mutual,

source,

victim

}

CoexType ::= ENUMERATED {

known,

unknown

}

FreqDescription ::= SEQUENCE{

networkID OCTET STRING OPTIONAL,

networkTechnology NetworkTechnology OPTIONAL,

coexType CoexType,

interferenceDirection InterferenceDirection,

occupancy REAL OPTIONAL,

totalOccupancy REAL OPTIONAL

}

REState ::= ENUMERATED {

free,

occupiedKnown,

occupiedUnknown,

notMeasured

}

REInfoElement ::= SEQUENCE {

frequencyRange FrequencyRange,

state REState,

freqDescription FreqDescription OPTIONAL

}

RadioEnvironmentInformation ::= SEQUENCE OF REInfoElement

NetworkGeometryClass ::= ENUMERATED {

class1,

class2,

class3,

class4

}

NeighborReportElement ::= SEQUENCE {

networkID OCTET STRING,

networkTechnology NetworkTechnology,

interferenceDirection InterferenceDirection,

interferenceLevelFromNeighbor REAL,

interferenceLevelToNeighbor REAL,

listOfOperatingFrequencies ListOfOperatingFrequencies OPTIONAL,

listOfOperatingChannelNumbers SEQUENCE OF INTEGER OPTIONAL,

radioEnvironmentInformation RadioEnvironmentInformation OPTIONAL,

networkGeometryClass NetworkGeometryClass OPTIONAL

}

NeighborReport ::= SEQUENCE OF NeighborReportElement

AggrIntCntrParams ::= SEQUENCE {

referencePointID INTEGER,

geolocation Geolocation,

acs REAL,

antennaHeight REAL,

antennaGain REAL,

protectionRatio REAL,

…

}

AvailableChannelElement ::= SEQUENCE {

frequencyRange FrequencyRange,

txPowerLimit REAL,

availableStartTime GeneralizedTime,

availableDuration REAL,

aggrIntCntrParams AggrIntCntrParams OPTIONAL

}

AvailableChannelList::= SEQUENCE OF AvailableChannelElement

RequiredResourceElement ::= SEQUENCE {

requiredBandwidth REAL,

expectedLoad REAL

}

RequiredResource ::= SEQUENCE OF RequiredResourceElement

ListOfAllowedTVWSChNumber ::= SEQUENCE OF INTEGER

ConstOfChUseID :: = ENUMERATED {

regulationMaxTxPower,

regulationMaxAntGain,

regulationMaxAntHeight,

regulationTVDBUpdateTime,

outOfBandEmissionLimit,

…

}

ConstOfChUseValue ::= CHOICE {

regulationMaxTxPower REAL,

regulationMaxAntMaxGain REAL,

regulationAntMaxHeight REAL,

regulationTVDBUpdateTime REAL,

outOfBandEmissionLimit REAL,

…

}

ConstOfChUse ::= SEQUENCE {

constOfChUseID ConstOfChUseID,

constOfChUseValue ConstOfChUseValue

}

ConstOfChUses ::= SEQUENCE OF ConstOfChUse

OperatingChannelInfo ::= SEQUENCE {

operatingChannelNumber INTEGER,

listOfNetworkID SEQUENCE OF OCTET STRING,

…

}

ChClassInfo ::= sequence {

availableChannelList SEQUENCE OF INTEGER,

restrictedChannelList SEQUENCE OF INTEGER,

protectedChannelList SEQUENCE OF INTEGER,

unclassifiedChannelList SEQUENCE OF INTEGER,

operatingChannelList SEQUENCE OF OperatingChannelInfo,

coexistenceChannelList SEQUENCE OF OperatingChannelInfo,

…

}

ChClassInfoList ::= SEQUENCE OF SEQUENCE {

networkID OCTET STRING,

chClassInfo ChClassInfo

}

ReqInfoDescrElement ::= ENUMERATED{

sinr,

desiredBandwidth,

desiredOccupancy,

desiredQoS,

desiredCoverage,

channelNumber,

subscribedService

...

}

ReqInfoDescr ::= SEQUENCE OF ReqInfoDescrElement

ReqInfoValueType ::= CHOICE {

sinrValue REAL,

desiredBandwidthValue REAL,

desiredOccupancyValue REAL,

desiredQoSValue REAL,

desiredCoverageValue REAL,

channelNumberValue REAL,

SubscribedServiceValue SubscribedService

otherValue ANY

}

ReqInfoValueElement ::= SEQUENCE {

reqInfoDescr ReqInfoDescr,

reqInfoValue ReqInfoValueType

}

ReqInfoValue ::= SEQUENCE OF ReqInfoValueElement

MeasSchedule ::= SEQUENCE {

measStartTime REAL,

numberOfMeasurements INTEGER,

timeBetweenMeasurements REAL

}

MeasFreq ::= SEQUENCE {

measStartAFreq REAL OPTIONAL,

measEndFreq REAL OPTIONAL,

listOfChNumber SEQUENCE OF INTEGER OPTIONAL

}

MeasDescr ::= ENUMERATED {

sinr,

fer,

sensingLevel,

primaryDetection,

tvdbDetection,

channelLoadMeasurement,

...

}

MeasurementDescription ::= SEQUENCE OF SEQUENCE {

measDescr MeasDescr,

measSchedule MeasSchedule,

measFreq MeasFreq

}

ReqInfoValue ::= CHOICE {

SINRValue REAL,

FERValue REAL,

SensingLevelValue REAL,

PrimaryDetectionValue BOOLEAN,

TVBDDetectionValue BOOLEAN,

ChannelLoadMeasurementValue REAL,

otherValue ANY

}

MeasurementResult ::= SEQUENCE OF SEQUENCE {

reqInfoDescr ReqInfoDescr,

reqInfoValue ReqInfoValue

}

TxScheduleElement ::= SEQUENCE {

scheduleStartTime GeneralizedTime,

scheduleDuration REAL,

numberOfScheduleRepetitions INTEGER,

transmissionStartTime REAL,

transmissionDuration REAL

}

TxSchedule ::= SEQUENCE OF TxScheduleElement

ReconfigurationRequestElement ::= SEQUENCE {

operatingFrequency FrequencyRange OPTIONAL,

listOfOperatingChNumber SEQUENCE OF INTEGER OPTIONAL

txPowerLimit REAL OPTIONAL,

channelIsShared BOOLEAN,

txSchedule TxSchedule OPTIONAL,

networkTechnology NetworkTechnology OPTIONAL

}

ReconfigurationRequest ::= SEQUENCE OF ReconfigurationRequestElement

FailedParameterID ::= ENUMERATED {

operatingFrequency,

listOfoperatingChNumber,

txPowerLimit,

channelIsShared,

txSchedule,

}

FailedParameterValue ::= CHOICE {

operatingFrequency FrequencyRange,

listOfoperatingChNumber SEQUENCE OF INTEGER,

txPowerLimit REAL,

channelIsShared boolean,

txSchedule TxSchedule OPTIONAL

}

FailedParameter ::= SEQUENCE {

failedParameterID FailedParameterID,

failedParameterValue FailedParameterValue

}

FailedParameters ::= SEQUENCE OF FailedParameter

EventDescr ::= ENUMERATED{

sinrThresholdReached,

qosDegradation,

misLocatedTVBDDetected,

…

}

MisLocatedTVBDDetectedInfo ::= SEQUENCE {

networkID OCTET STRING,

listOfoperatingFrequency SEQUENCE OF FrequencyRange OPTIONAL,

listOfChannelNumber SEQUENCE OF INTEGER OPTIONAL

}

AddInfo ::= CHOICE {

misLocatedTVBDDetectedInfo MisLocatedTVBDDetectedInfo,

…

}

EventParams ::= SEQUENCE {

eventDescr EventDescr,

addInfo AddInfo OPTIONAL

}

MediaType ::= ENUMERATED {

xDSL,

opticalFiber,

other

}

GuranteedQoSOfWiredConnection:: = ENUMERATED {

mediaType MediaType,

guranteedMinimumBitRate REAL,

guranteedMaximumLatency REAL OPTIONAL,

…

}

END