IEEE 802.19.1a
Wireless Coexistence

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| Text proposal on Annex on energy detection parameters |
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Abstract

This document provides text proposal Annex.

==== (Proposed text as follows)

**Annex A** (normative) **Data types**

-------------------------------------------------------------------------------Region information

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--Information of the bounded area defined by the multiple geolocations

minNumGeolocInfo INTEGER ::= 3

Region ::= SEQUENCE{

 numGeolocInfo INTEGER,

 geolocation Geolocation(SIZE(minNumGeolocInfo..numGeolocInfo))

}

 RectangularRegion ::= SEQUENCE{

 --Geolocation of the upper-left point of the rectangular

 geolocationUpper Geolocation,

 --Geolocation of the lower-right point of the rectangular

 geolocationLower Geolocation

}

EnergyDetectionSetupInfo ::= SEQUENCE {

-- Energy detection threshold [dBm]

energyDetectionTh REAL,

...

}

**Annex C** (normative) **Messages**

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--WSO reconfiguration

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--Reconfiguration request

ReconfigurationRequest ::= SEQUENCE OF SEQUENCE {

--WSO ID

wsoID OCTET STRING OPTIONAL,

--Operating frequency

operatingFrequency FrequencyRange OPTIONAL,

--List of operating channel number

listOfOperatingChNumber SEQUENCE OF INTEGER OPTIONAL,

--Transmission power limit [dBm]

txPowerLimit REAL OPTIONAL,

--Indication whether the channel is shared

channelIsShared BOOLEAN OPTIONAL,

--Transmission schedule

txSchedule TxSchedule OPTIONAL,

-- Channel classification information

chClassInfo ChClassInfo OPTIONAL,

-- Mobility information

mobilityInformation MobilityInformation OPTIONAL,

--Additionally operable network technology

addNetworkTechnology NetworkTechnology OPTIONAL,

-- Energy detection setup information

energyDetectionSetupInfo EnergyDetectionSetupInfo OPTIONAL

}

ReqInfoDescr ::= SEQUENCE OF ENUMERATED {

sinr,

desiredBandwidth,

desiredOccupancy,

desiredQoS,

desiredCoverage,

channelNumber,

subscribedService,

interferenceLevel,

fairness,

threshold,

mobilityInformation,

range,

energyDetectionSuccessfulRate,

activationRate,

...

}

ReqInfoValue ::= SEQUENCE OF SEQUENCE {

reqInfoDescr ReqInfoDescr OPTIONAL,

reqInfoValue CHOICE {

--SINR value [dB]

sinrValue REAL,

--Desired bandwidth value [MHz]

desiredBandwidthValue REAL,

--Desired occupancy value [fractional value between 0 and 1]

desiredOccupancyValue REAL,

--Desired QoS value [fractional value between 0 and 1]

desiredQoSValue REAL,

--Desired coverage value [m]

desiredCoverageValue REAL,

channelNumberValue REAL,

subscribedServiceValue SubscribedService

--Interference level value [dBm]

interferenceLevelValue REAL,

--Fairness value [fractional value between 0 and 1]

fairnessValue REAL,

--Threshold value [factional value between 0 to 1]

thresholdValue REAL,

mobilityInformation MobilityInformation, otherValue ANY,

--Management range information

range CHOICE {

 --Information of the bounded area defined by the multiple geolocations

 multipointRegion Region,

 --Rectangular area defined by the upper-left and lower right points of the rectangular

 rectangularRegion RectangularRegion},

--Energy detection successful rate in percentage [0 ~ 100]

energyDectionSuccessRate REAL,

--Percentage of activated cells of one operator [0 ~ 100]

activationRate REAL

} OPTIONAL

}