IEEE 802.19.1a  
Wireless Coexistence

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Text proposal on Annex on energy detection parameters | | | | |
| Date: 2016-01-19 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | Email |
| Chen Sun | Sony China |  |  | Chen.Sun@sony.com.cn |
| Sho Furuichi | Sony |  |  | Sho.Furuichi@jp.sony.com |
| Naotaka Sato | Sony |  |  | naotaka.sato@ieee.org |

Abstract

This document provides text proposal Annex.

==== (Proposed text as follows)

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

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

-----------------------------------------------------------------------------

--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**

-----------------------------------------------------------

--WSO reconfiguration

-----------------------------------------------------------

--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

}