IEEE 802.19.1a  
Wireless Coexistence

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| Text proposal on Annex B | | | | |
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Abstract

This document provides text proposal on Annex B.

Text in this submission is made by 19-16/0016r1, 19-16/0020r1, 19-16/0022r1, 19-16/0051r1, 19-16/0053r1, 19-16/0055r1, 19-16/0058r0, 19-16/0060r2, 19-16/0083r0, 19-16/0084r0, 19-16/0086r0 and 19-16/0088r0 with some changes.

# Annex B **(normative)** Primitives for IEEE 802.19.1a

## **B.1 Transport SAP**

IEEE802191aTRSAPPrimitive DEFINITIONS AUTOMATIC TAGS::= BEGIN

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

--Imported data types

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

--Imported data types

IMPORTS

--Coexistence protocol entity ID

CxID,

--Status

Status

FROM IEEE802191aDataType;

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

--Transport service configuration

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

--Transport service configuration request

TrConfigurationRequest ::= SEQUENCE {

--Source ID

sourceID CxID OPTIONAL,

--Destination ID

destinationID CxID OPTIONAL,

--Destination IP address

destinationIPAddress OCTET STRING OPTIONAL,

--Destination port number

destinationPortNumber INTEGER OPTIONAL

}

--Transport service configuration response

TrConfigurationResponse ::= SEQUENCE {

--Destination ID

destinationID CxID OPTIONAL,

--Configuration status

status Status OPTIONAL

}

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

--Connection establishment

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

--Request for connection

TrConnectionRequest ::= SEQUENCE {

--Source ID

sourceID CxID OPTIONAL,

--Destination ID

destinationID CxID OPTIONAL,

--Keep alive interval

keepAliveInterval INTEGER OPTIONAL

}

--Indication of the received connection request

TrConnectionIndication ::= SEQUENCE {

--Source ID

sourceID CxID OPTIONAL

}

--Response to the received connection request

TrConnectionResponse ::= SEQUENCE {

--Destination ID

destinationID CxID OPTIONAL,

--Connection status

status Status OPTIONAL

}

--Confirmation to the connection request

TrConnectionConfirm ::= SEQUENCE {

--Source ID

sourceID CxID OPTIONAL,

--Connection status

status Status OPTIONAL

}

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

--Connection termination

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

--Connection termination request

TrDisconnectionRequest ::= SEQUENCE {

--Destination ID

destinationID CxID OPTIONAL

}

--Connection termination indication

TrDisconnectionIndication ::= SEQUENCE {

--Source ID

sourceID CxID OPTIONAL

}

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

--Sending a coexistence protocol message

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

--Request to send coexistence protocol message

TrSendRequest ::= SEQUENCE {

--Destination ID

destinationID CxID OPTIONAL,

--Encoded coexistence protocol message

cxMessage OCTET STRING OPTIONAL

}

--Confirmation of sending coexistence protocol message

TrSendConfirm ::= SEQUENCE {

--Destination ID

destinationID CxID OPTIONAL,

--Status of sending coexistence protocol message

status Status OPTIONAL

}

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

--Receiving a coexistence protocol message

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

--Indication of received coexistence protocol message

TrReceiveIndication ::= SEQUENCE {

--Source ID

sourceID CxID OPTIONAL,

--Encoded coexistence protocol message

cxMessage OCTET STRING OPTIONAL

}

END

## **B.2 Coexistence Media SAP**

IEEE802191aMEDIASAPPrimitive DEFINITIONS AUTOMATIC TAGS::= BEGIN

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

--Imported data types

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

--Imported data types

IMPORTS

--Status

Status,

--CxMedia status

CxMediaStatus,

--Coexistence service

CoexistenceService,

--Network technology

NetworkTechnology,

--Network type

NetworkType,

--GCO Descriptor

GCODescriptor,

--Geolocation

Geolocation,

--Coverage area

CoverageArea,

--Installation parameters

InstallationParameters,

--List of available frequencies

ListOfAvailableFrequencies,

--List of operating frequencies

ListOfOperatingFrequencies,

--List of supported frequencies

ListOfSupportedFrequencies,

--Required resource

RequiredResource,

--Transmission schedule

TxSchedule,

--Coexistence protocol entity ID

CxID,

--Frequency range

FrequencyRange,

--Coexistence report

CoexistenceReport,

--List of coexistence reports

ListOfCoexistenceReports,

--Measurement capability

MeasurementCapability,

-- Operation code

OperationCode,

--Mobility Information

MobilityInformation,

--Entity profile

EntityProfile,

--List of recommended operation Frequencies

ListOfRecommendedOperationFrequencies,

--List of desired performances

ListOfDesiredPerformances,

SpecRequestModification,

Range

FROM IEEE802191aDataType;

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

--GCO subscription

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

--Request for subscription information

CxMediaSubscriptionRequest ::= SEQUENCE {}

--Subscription information

CxMediaSubscriptionResponse ::= SEQUENCE {

--GCO subscription ID

clientID IA5String OPTIONAL,

--GCO subscription password

clientPassword IA5String OPTIONAL,

--Coexistence service to which GCO is subscribed

coexistenceService CoexistenceService OPTIONAL

}

--Request to change subscription

CxMediaSubscriptionIndication ::= SEQUENCE {

--Coexistence service to which GCO is subscribed

coexistenceService CoexistenceService OPTIONAL

}

--Subscription status

CxMediaSubscriptionConfirm ::= SEQUENCE {

--Subscription status

cxMediaStatus CxMediaStatus OPTIONAL

}

--Request to change subscription

CxMediaChangeSubscriptionRequest ::= SEQUENCE {

--Coexistence service to be changed

coexistenceService CoexistenceService OPTIONAL

}

--Response for subscription change

CxMediaChangeSubscriptionResponse :: = SEQUENCE {

--Status

cxMediaStatus CxMediaStatus OPTIONAL

}

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

--GCO registration

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

--Request for registration information

CxMediaRegistrationRequest ::= SEQUENCE {}

--Registration information

CxMediaRegistrationResponse ::= SEQUENCE OF SEQUENCE {

--GCO ID

gcoID OCTET STRING OPTIONAL,

--Network ID

networkID OCTET STRING OPTIONAL,

--GCO descriptor

gcoDescriptor GCODescriptor OPTIONAL,

--Installation parameters

installationParameters InstallationParameters OPTIONAL,

--List of available frequencies

listOfAvailableFrequencies ListOfAvailableFrequencies OPTIONAL,

--List of operating frequencies

listOfOperatingFrequencies ListOfOperatingFrequencies OPTIONAL,

-- List of supported frequencies

listOfSuppFrequencies ListOfSupportedFrequencies OPTIONAL,

--Transmission schedule is supported or not

txScheduleSupported BOOLEAN OPTIONAL,

--Measurement capability

measurementCapability MeasurementCapability OPTIONAL,

--Required resource

requiredResource RequiredResource OPTIONAL,

--Mobility Information

mobilityInformation MobilityInformation OPTIONAL,

--List of desired performance

listOfDesiredPerformances ListOfDesiredPerformances OPTIONAL,

--Spectrum transition capability

spectrumTransitionCapability BOOLEAN OPTIONAL,

--Operation region

operationRegion Range OPTIONAL

}

--Updated registration information

CxMediaRegistrationIndication ::= SEQUENCE OF SEQUENCE {

--GCO ID

gcoID OCTET STRING OPTIONAL,

--Network ID

networkID OCTET STRING OPTIONAL,

--List of available frequencies

listOfAvailableFrequencies ListOfAvailableFrequencies OPTIONAL,

--List of operating frequencies

listOfOperatingFrequencies ListOfOperatingFrequencies OPTIONAL,

--Required resource

requiredResource RequiredResource OPTIONAL,

--Transmission schedule is supported or not

txScheduleSupported BOOLEAN OPTIONAL,

-- List of supported frequencies

listOfSuppFrequencies ListOfSupportedFrequencies OPTIONAL,

--Measurement capability

measurementCapability MeasurementCapability OPTIONAL,

--Mobility information

mobilityInformation MobilityInformation OPTIONAL,

--List of desired performance

listOfDesiredPerformances ListOfDesiredPerformances OPTIONAL,

--Spectrum transition capability

spectrumTransitionCapability BOOLEAN OPTIONAL,

--Operation region

operationRegion Range OPTIONAL

}

--Registration confirmation

CxMediaRegistrationConfirm ::= SEQUENCE {

--CxMedis status

cxMediaStatus CxMediaStatus OPTIONAL,

--Registration update duration [s]

registrationUpdateDuration REAL OPTIONAL

}

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

--GCO reconfiguration

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

--Reconfiguration request

CxMediaReconfigurationRequest ::= SEQUENCE OF SEQUENCE {

--GCO ID

gcoID OCTET STRING OPTIONAL,

--List of operating frequencies

listOfOperatingFrequencies ListOfOperatingFrequencies OPTIONAL,

--Network technology to be configured

newNetworkTechnology NetworkTechnology OPTIONAL,

specRequestModification SpecRequestModification OPTIONAL

}

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

--Coexistence report

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

--Request for coexistence report

CxMediaCoexistenceReportRequest ::= SEQUENCE {}

--Response for coexistence report

CxMediaCoexistenceReportResponse ::= SEQUENCE {

--Coexistence report information

coexistenceReport CoexistenceReport OPTIONAL,

listOfCoexistenceReports ListOfCoexistenceReports OPTIONAL

}

END