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| Project | **IEEE 802.16 Broadband Wireless Access Working Group <**<http://ieee802.org/16>**>** | |
| Title | **ASN.1 coding for TDC MAC control messages in IEEE 802.16.1a/D3** | |
| Date Submitted | **2012-07-09** | |
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| Re: | “IEEE 802.16-12-400-00-Gdoc,” in response to Letter Ballot Recirc #38b on P802.16.1a/D3 | |
| Abstract | This provides AWD text proposals for ASN.1 coding of TDC (talk-around direct communication) MAC control messages in IEEE 802.16.1a/D3 | |
| Purpose | To discuss and adopt the proposed text in the draft amendment document on GRIDMAN | |
| Notice | *This document does not represent the agreed views of the IEEE 802.16 Working Group or any of its subgroups*. It represents only the views of the participants listed in the “Source(s)” field above. It is offered as a basis for discussion. It is not binding on the contributor(s), who reserve(s) the right to add, amend or withdraw material contained herein. | |
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**ASN.1 coding for TDC MAC control messages in IEEE 802.16.1a/D3**

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# Introduction

This document provides the modification on ASN.1 coding of **TDC** (talk-around direct communication) **MAC control messages according to the IEEE 802.16.1a**/D3.

# References

[1] IEEE 802.16-12-0132-00, GRIDMAN System Requirement Document including SARM annex, January 2012.

[2] IEEE P802.16.1aTM/D3, WirelessMAN-Advanced Air Interface for Broadband Access Systems - Draft Amendment: Higher Reliability Networks, June 2012.

# Proposed Text for the 802.16.1a AWD

Note:

The text in **BLACK** color: the existing text in the 802.16.1a AWD

The text in **~~RED~~** color: the removal of existing 802.16.1a AWD

The text in **BLUE** color: the new text added to the 802.16.1a AWD

[-------------------------------------------------Start of Text Proposal---------------------------------------------------]

**[*Remedy1: Adopt the following proposed modification from page#227, line#4 in IEEE P802.16.1a/D3.*]**

-- HR direct communication

aaiDcLestReq AAI-DC-LEST-REQ,

aaiDcLestRsp AAI-DC-LEST-RSP,

aaiDcMesRep AAI-DC-MES-REP,

aaiDcRchgReq AAI-DC-RCHG-REQ,

aaiDcRchgRsp AAI-DC-RCHG-RSP,

aaiDcTknReq AAI-DC-TKN-REQ,

aaiDcTknRsp AAI-DC-TKN-RSP,

aaiDcTknHo AAI-DC-TKN-HO,

aaiDcLestCmd AAI-DC-LEST-CMD,

aaiDcLrelCmd AAI-DC-LREL-CMD,

aaiDcDsaCmd AAI-DC-DSA-CMD,

aaiDcDscCmd AAI-DC-DSC-CMD,

aaiDcDsdCmd AAI-DC-DSD-CMD,

aaiDcMesCmd AAI-DC-MES-CMD,

aaiDcRchgCmd AAI-DC-RCHG-CMD,

aaiDcTknAdv AAI-DC-TKN-ADV,

aaiDcRts AAI-DC-RTS,

aaiDcCts AAI-DC-CTS,

aaiDcRchgCmd AAI-DC-RCHG-CMD,

~~aaiDcMchgCmd AAI-DC-MCHG-CMD,~~

aaiDcCfgCmd AAI-DC-CFG-CMD,

aaiDcRelayAdv AAI-DC-RELAY-ADV,

aaiDcRelayReq AAI-DC-RELAY-REQ,

aaiDcRelayRsp AAI-DC-RELAY-RSP,

-- HR Multicast message

AaiHrMgInd AAI-HR-MG-IND,

AaiHrMtInd AAI-HR-MT-IND,

...

}

-- \*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-

-- Common type definitions

-- \*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-

...

-- \*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-

-- MAC control messages for HR-Networks

-- \*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-

**[*Remedy2: Adopt the following proposed modification from line# 45, page#243 to line#42, page #252 in IEEE P802.16.1a/D3.*]**

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication link establishment request

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-LEST-REQ ::= SEQUENCE {

linkChangeCount INTEGER (0..15),

linkList SEQUENCE (SIZE (0..1)) OF SEQUENCE {

fID FID,

trafficPriority INTEGER (0..7),

cSSpecificationParameters INTEGER {

g729a (16),

amr (17)

} (0..255),

mACHeaderType ENUMERATED {

agmh,

spmh

},

inorderDeliveryIndicator BIT STRING (SIZE(1)),

sDUReorderingTimeout INTEGER(1..16) OPTIONAL,

reserved INTEGER(0..3)

},

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication link establishment response

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-LEST-RSP ::= SEQUENCE {

linkChangeCount INTEGER (0..15),

confirmationCode INTEGER {

accept (0),

rejectWithaRecommendedDCH (1),

reject (2)

} (0..15),

directModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3) OPTIONAL,

dCHNumber INTEGER (0..63) OPTIONAL,

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication measurement report

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-MES-REP ::= SEQUENCE {

listOfDCHsForCINRReport SEQUENCE (SIZE (0..36)) OF SEQUENCE {

directModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3),

dCHNumber INTEGER (0..63),

dCHCINRMean INTEGER (0..255)

} OPTIONAL,

listOfDCHsForNIReport SEQUENCE (SIZE (0..36)) OF SEQUENCE {

directModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3),

dCHNumber INTEGER (0..63),

noiseAndInterferenceLevelMean INTEGER (0..255),

noiseAndInterferenceLevelVariance INTEGER (0..15)

} OPTIONAL,

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication resource change request

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-RCHG-REQ ::= SEQUENCE {

listOfDCHsForCINRReport SEQUENCE (SIZE (0..36)) OF SEQUENCE {

oldDirectModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3),

oldDCHNumber INTEGER (0..15),

newDirectModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3),

newDCHNumber INTEGER (0..15)

} OPTIONAL,

listOfRecommendedDCHs SEQUENCE (SIZE (0..36)) OF SEQUENCE {

directModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3),

dCHNumber INTEGER (0..63),

noiseAndInterferenceLevelMean INTEGER (0..255),

noiseAndInterferenceLevelVariance INTEGER (0..15)

} OPTIONAL,

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication resource change response

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-RCHG-RSP ::= SEQUENCE {

confirmationCode INTEGER {

acceptWithNewDCHsMapping (0),

reject (1)

} (0..15),

listOfNewDCHs SEQUENCE (SIZE (0..36)) OF SEQUENCE {

oldDirectModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3),

oldDCHNumber INTEGER (0..15),

newDirectModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3),

newDCHNumber INTEGER (0..15)

} OPTIONAL,

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication token request

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-TKN-REQ ::= SEQUENCE {

directModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3),

dCHNumber INTEGER (0..15),

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication token response

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-TKN-RSP ::= SEQUENCE {

confirmationCode INTEGER {

accept (0),

reject (1)

} (0..15),

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication token handover

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-TKN-HO ::= SEQUENCE {

dCTID BIT STRING (SIZE(24)),

dCFrameNumber INTEGER (0..15),

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication link establishment command

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-LEST-CMD ::= SEQUENCE {

linkChangeCount INTEGER (0..15),

linkList SEQUENCE (SIZE (0..1)) OF SEQUENCE {

fID FID,

trafficPriority INTEGER (0..7),

cSSpecificationParameters INTEGER {

g729a (16),

amr (17)

} (0..255),

mACHeaderType ENUMERATED {

agmh,

spmh

},

inorderDeliveryIndicator BIT STRING (SIZE(1)),

sDUReorderingTimeout INTEGER(1..16) OPTIONAL,

reserved INTEGER(0..3)

},

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication link release command

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-LREL-CMD ::= SEQUENCE {

linkReleaseCommandCode INTEGER {

linkReleaseCommand (0)

} (0..255),

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication dynamic service addition command

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-DSA-CMD ::= SEQUENCE {

fIDChangeCount INTEGER (0..15),

flowList SEQUENCE (SIZE (0..12)) OF SEQUENCE {

fID FID,

trafficPriority INTEGER (0..7),

cSSpecificationParameters INTEGER {

g729a (16),

amr (17)

} (0..255),

mACHeaderType ENUMERATED {

agmh,

spmh

}

},

inorderDeliveryIndicator BIT STRING (SIZE(1)),

sDUReorderingTimeout INTEGER(1..16) OPTIONAL,

resourcesHARQTx SEQUENCE (SIZE (0..36)) OF SEQUENCE {

resourceId INTEGER (0..15),

maxNumberofHarqReTx INTEGER (0..3),

reserved INTEGER (0..3)

},

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication dynamic service change command

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-DSC-CMD ::= SEQUENCE {

fIDChangeCount INTEGER (0..15),

flowList SEQUENCE (SIZE (0..12)) OF SEQUENCE {

fID FID,

trafficPriority INTEGER (0..7),

cSSpecificationParameters INTEGER {

g729a (16),

amr (17)

} (0..255),

mACHeaderType ENUMERATED {

agmh,

spmh

}

},

resourcesHARQTx SEQUENCE (SIZE (0..36)) OF SEQUENCE {

resourceId INTEGER (0..15),

maxNumberofHarqReTx INTEGER (0..3),

reserved INTEGER (0..3)

},

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication dynamic service delete command

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-DSD-CMD ::= SEQUENCE {

fIDChangeCount INTEGER (0..15),

flowList SEQUENCE (SIZE (0..12)) OF SEQUENCE {

fID FID

},

resourcesHARQTx SEQUENCE (SIZE (0..36)) OF SEQUENCE {

resourceId INTEGER (0..15),

maxNumberofHarqReTx INTEGER (0..3),

reserved INTEGER (0..3)

},

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication measurement command

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-MES-CMD ::= SEQUENCE {

reportMode INTEGER {

eventTriggered (0),

onetime (1),

periodic (2)

} (0..3),

reportMetric BIT STRING {

dCHCINRMean (0),

dCHNIMeanandVariance (1)

} (SIZE (2)),

reportPeriod INTEGER (0..255),

reportTriggerAveragingParameter INTEGER {

one (0),

half (1),

quarter (2),

one-8th (3),

one-16th (4),

one-32th (5),

one-64th (6),

one-128th (7)

} (0..15),

reportTriggerCINRThreshold INTEGER (0..255),

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication resource change command

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-RCHG-CMD ::= SEQUENCE {

listOfDCHsChanged SEQUENCE (SIZE (0..36)) OF SEQUENCE {

oldDirectModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3),

oldDCHNumber INTEGER (0..15),

newDirectModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3),

newDCHNumber INTEGER (0..15)

},

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication token advertisement

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-TKN-ADV ::= SEQUENCE {

directModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3),

dCHNumber INTEGER (0..15),

pTTTokenStatus INTEGER {

available (0),

unabailable (1)

} (0..3),

destinationDCGID BIT STRING(SIZE(24)),

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication request to send

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-RTS ::= SEQUENCE {

sourceDCTID BIT STRING(SIZE(24)),

destinationDCTIDorGCGID BIT STRING(SIZE(24)),

maxIndexofBurstSize INTEGER (0..255),

rangingPeriod INTEGER (0..15),

rangingOffset INTEGER (0..15),

cQIPeriod INTEGER (0..15),

cQIPeriod INTEGER (0..15),

maxNumberofHARQRetx INTEGER (0..3),

destinationAddressType ENUMERATED {

dctid,

dcgid

},

piggybackMessageIndicator ENUMERATED {

nopiggyback,

maccontrolmessage

},

transmitPower INTEGER (0..63),

reserved INTEGER (0..63),

macControlMessage CHOICE {

aaiDcLestReq AAI-DC-LEST-REQ,

aaiDcMesRep AAI-DC-MES-REP,

aaiDcRchgReq AAI-DC-RCHG-REQ,

aaiDcLestCmd AAI-DC-LEST-CMD,

aaiDcRelayReq AAI-DC-RELAY-REQ

} OPTIONAL,

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication clear to send

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-CTS ::= SEQUENCE {

sourceDCTID BIT STRING(SIZE(24)),

destinationDCTIDorGCGID BIT STRING(SIZE(24)),

recommendedIndexofBurstSize INTEGER (0..255),

rangingPeriod INTEGER (0..15),

rangingOffset INTEGER (0..15),

cQIPeriod INTEGER (0..15),

cQIPeriod INTEGER (0..15),

maxNumberofHARQRetx INTEGER (0..3),

destinationAddressType ENUMERATED {

dctid,

dcgid

},

piggybackMessageIndicator ENUMERATED {

nopiggyback,

maccontrolmessage

},

transmitPower INTEGER (0..63),

reserved INTEGER (0..63),

macControlMessage CHOICE {

aaiDcLestReq AAI-DC-LEST-RSP,

aaiDcRchgReq AAI-DC-RCHG-RSP,

aaiDcRelayReq AAI-DC-RELAY-RSP

} OPTIONAL,

...

}

~~-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-~~

~~-- Direct communication MCS change command~~

~~-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-~~

~~AAI-DC-MCHG-CMD ::= SEQUENCE {~~

~~maxIndexofBurstSize INTEGER (0..255),~~

~~...~~

~~}~~

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication configruation command

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-CFG-CMD ::= SEQUENCE {

recommendedIndexofBurstSize INTEGER (0..255),

rangingPeriod INTEGER (0..15),

rangingOffset INTEGER (0..15),

cQIPeriod INTEGER (0..15),

cQIPeriod INTEGER (0..15),

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication relay advertisement

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-RELAY-ADV ::= SEQUENCE {

relayDCTID BIT STRING(SIZE(24)),

relayStatus ENUMERATED {

available,

relayingPackets

},

relayTrafficPriority INTEGER (0..7),

listOfReservedDCHs SEQUENCE (SIZE (0..36)) OF SEQUENCE {

directModeZoneTypeForReservation INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3),

dCHNumber INTEGER (0..63)

},

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication relay request

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-RELAY-REQ ::= SEQUENCE {

linkChangeCount INTEGER (0..15),

flowList SEQUENCE (SIZE (0..1)) OF SEQUENCE {

fID FID,

trafficPriority INTEGER (0..7),

cSSpecificationParameters INTEGER {

g729a (16),

amr (17)

} (0..255),

mACHeaderType ENUMERATED {

agmh,

spmh

},

inorderDeliveryIndicator BIT STRING (SIZE(1)),

sDUReorderingTimeout INTEGER(1..16) OPTIONAL,

reserved INTEGER(0..15)

},

targetDCTIDorDCGID BIT STRING(SIZE(24)),

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Direct communication relay response

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

AAI-DC-RELAY-RSP ::= SEQUENCE {

linkChangeCount INTEGER (0..15),

confirmationCode INTEGER {

accept (0),

rejectWithaRecommendedDCH (1),

waitNextResponseMessage (2)

} (0..15),

directModeZoneType INTEGER {

cdmz (0),

cdmze (1),

csdmz (2)

} (0..3) OPTIONAL,

dCHNumber INTEGER (0..63) OPTIONAL,

...

}

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

-- Multicast Messages

-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-

...............

[-------------------------------------------------End of Text Proposal---------------------------------------------------]