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Title	Updates for MOB_SCN-REQ/RSP/REP text		
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Re:	IEEE 802.16Rev2/D5, Letter Ballot 26d Reply Comments		
Abstract	Proposal to provide updates and clarifications of the use of bitmaps for identifying BSs in MOB_SCN-REQ/RSP/REP messages.		
Purpose	Adopt proposed text changes for IEEE 802.16Rev2/D5 revision		
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Updates for MOB_SCN-REQ/RSP/REP text

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Description

The following proposed text changes provide updates and clarifications for the use of bitmaps to identifying BSs in MOB_SCN-REQ/RSP/REP messages.

Proposed Text Changes

Modify Section 6.3.2.3.42 as follows:

6.3.2.3.42 MOB_NBR-ADV (neighbor advertisement) message

BSs supporting mobile functionality shall be capable of transmitting a MOB_NBR-ADV management message at a periodic interval (MOB_NBR-ADV interval; see Table 548) to identify the network and define the characteristics of neighbor BS to potential MS seeking initial network entry or HO. For the compression of neighbor BSIDs using this message in MOB_SCN-REQ, MOB_SCN-REP, MOB_SCN-REP, and MOB_MSHO-REQ messages, BSs and MSs shall keep mapping-tables of neighbor BS MAC addresses and neighbor BS indexes transmitted through MOB_NBR-ADV message, for each Configuration Change Count. Using these mapping-tables, BSs can derive 48-bit neighbor BSID from neighbor BS index included in MOB_SCN-REQ, MOB_SCN-RSP, MOB_SCN-REP, or MOB_MSHO-REQ messages. MOB_SCN-REQ, MOB_SCN-RSP, and MOB_SCN-REP messages may identify the MOB_NBR-ADV BS indexes using a BS index bitmap (Nbr_Index_Bitmap), where a BS index corresponds to the position of a BS in the MOB_NBR-ADV message and a bit position in the bitmap corresponds to a BS index of the MOB_NBR-ADV.

[...]

Modify Section 6.3.2.3.43 as follows:

6.3.2.3.43 MOB_SCN-REQ (scanning interval allocation request) message

A MOB_SCN-REQ message may be transmitted by an MS to request a scanning interval for the purpose of seeking available BSs and determining their suitability as targets for HO. An MS may request the scanning allocation to perform scanning or noncontention association ranging.

For the compression of neighbor BSIDs through a reference to this message in MOB_SCN-RSP, BSs and MSs may keep mapping-tables of neighbor BS MAC addresses and neighbor BS indexes transmitted through this message, for each MOB_SCN-REQ_sequence number (Req_Seq_Num), where a BS index corresponds to the position of a BS in the MOB_SCN-REQ message and a BS index bitmap (Req_Bitmap_Index) in MOB_SCN-RSP is used to identify BS indexes such that a bit position in this bitmap_corresponds to a BS index of the MOB_SCN-REQ.

An MS shall generate MOB_SCN-REQ messages in the format shown in Table 146.

Table 146—MOB SCN-REQ message format

Syntax	Size (bit)	Notes
MOB_SCN-REQ_Message_format() {	_	_

Management Message Type = 54	8	_
Scan duration	8	Units are in frames.
Interleaving interval	8	Units are frames.
Scan Iteration	8	_
N_Recommended_BS_Index	8	Number of neighboring BS to be scanned or associated, which are using BS index that corresponds to the position of BS in MOB_NBR-ADV message or, when equal to 0xFF, indicates that the BS index bitmap (Nbr Bitmap Index) is used.
If(N_Recommended_BS_Index != 0) {	_	_
Configuration change count for MOB_NBR-ADV	8	Configuration Change Count value of referring MOB_NBR-ADV message
}	_	_
if(N_Recommended_BS_Index == 0xFF){	_	_
Req_Seq_Num	1	One-bit sequence number for this message that is incremented for each new message.
Nbr_Bitmap_Size	<u>8</u>	Size of Nbr_Bitmap_Index in bits, which may be less than or equal to the number of BSs in MOB_NBR ADV.
Nbr_Bitmap_Index	Nbr Bitmap Siz	Each bit position corresponds to a BS index of the corresponding MOB NBR-ADV message
	Up to the number BSs in MOB_ NBR ADV	
for(each '1' in Nbr_Bitmap_Index) {	_	_
Scanning_type	3	0b000: Scanning without association. 0b001: Scanning with association level 0:
}		_
} else {	_	_
$\label{eq:for_state} \begin{split} & for(j=0; j < N_Recommended_BS_Index; \\ & j++) \; \{ \end{split}$	_	_
Neighbor_BS_Index	8	BS index corresponds to position of BS in MOB_NBR-ADV message
Req_Seq_Num	1	One-bit sequence number for this message that is incremented for each new message.
Scanning type	3	0b000: Scanning without association. 0b001: Scanning with association level 0: association without coordination

		0b010: Scanning with association level 1: association with coordination. 0b011: Scanning with association level 2: network assisted association. 0b100—0b111: Reserved
}	_	_
}	_	_
N_Recommended_BS_Full	8	Number of neighboring BS to be scanned or associated, which are using full 48 bits BS ID.
$for(j = 0; j < N_Recommended_BS_Full; j++) \; \{$	_	_
Recommended BS ID	48	_
Req_Seq_Num	1	One-bit sequence number for this message that is incremented for each new message.
Scanning type	3	0b000: Scanning without association. 0b001: Scanning with association level 0: association without coordination 0b010: Scanning with association level 1: association with coordination. 0b011: Scanning with association level 2: network assisted association. 0b100-0b111: Reserved
}	_	
Padding	variable	If needed for alignment to byte boundary.
TLV encoded information	variable	_
}	_	_

[...]

The following parameters shall be included in the MOB_SCN-REQ message:

$N_Recommended_BS_Index$

If not equal to 0xFF, this is the Nnumber of neighboring BS to be scanned or associated, which are included in MOB_NBRADV message. If equal to 0xFF, this indicates that the BS index bitmap (Nbr Bitmap Index) is used to identify the BS index that corresponds to the position of BS in MOB_NBR-ADV message. When MS receives MOB_SCN-RSP message from BS in response to MOB_SCN-REQ message, MS shall check whether Configuration Change Count stored by MS is the same as one included in MOB_SCN-RSP message sent by BS. If MS detects mismatch of Configuration Change Counts, it may retransmit MOB_SCN-REQ message to BS, In this case, MS shall set this value to zero.

Configuration Change Count for MOB NBR-ADV

The value of Configuration Change Count in MOB_NBR-ADV message referred in order to compress neighbor BSID.

Req_Seq_Num

One-bit sequence number for this the MOB SCN-REQ message that is incremented Toggles after for each new message transmission of this message and may be included in a MOB_SCN-RSP message to identify the MOB_SCN-REQ message associated with a MOB_SCN-REQ BS Index bitmap (Req_Bitmap_Index), where a bit position in this bitmap corresponds to a BS index of the MOB_SCN-REQ message and where a BS index corresponds to the position of a BS in the MOB_SCN-REQ message. When an MS receives a MOB_SCN-RSP message from the BS that includes

Req Seq Num, the MS shall compare its stored value of Req Seq Num with the one included in the MOB SCN-RSP message and discard the MOB SCN-RSP message if there is a mismatch.

Nbr_Bitmap_Index

Bitmap of BS indexes of BS into for a MOB_NBR-ADV message, where a bit position in the bitmap corresponds to a BS index of a MOB_NBR-ADV message and where a BS index corresponds to the position of the BS in a MOB_NBR-ADV message.

Neighbor_BS_Index

BS index corresponds to position of BS in MOB_NBR-ADV message.

[...]

Modify Section 6.3.2.3.44 as follows:

6.3.2.3.44 MOB SCN-RSP (scanning interval allocation response) message

A MOB_SCN-RSP message shall be transmitted by the BS either unsolicited or in response to a MOB_SCN-REQ message sent by an MS. A BS may transmit MOB_SCN-RSP to start MS scan reporting with or without scanning allocation. A BS may allocate the scanning allocation for MS scanning with Scanning type = 0b000, or MS noncontention association ranging with Scanning type = 0b010 or 0b011. The message shall be transmitted on the Basic CID.

For the compression of neighbor BSIDs through a reference to this message in MOB_SCN-REP, BSs and MSs may keep mapping-tables of neighbor BS MAC addresses and neighbor BS indexes transmitted through this message, for each MOB_SCN-RSP sequence number (Rsp_Seq_Num), where a BS index corresponds to the position of a BS in the MOB_SCN-RSP message and a BS index bitmap (Rsp_Bitmap_Index) in MOB_SCN-REP is used to identify BS indexes such that a bit position in this bitmap corresponds to a BS index of the MOB_SCN-RSP.

The format of the MOB_SCN-RSP message is depicted in Table 147.

Table 147—MOB SCN-RSP message format

Syntax	Size (bit)	Notes
MOB_SCN-RSP_Message_format() {	_	_
Management Message Type = 55	8	_
Scan duration	8	In units of frames. When Scan Duration is set to zero, no scanning parameters are specified in the message. When MOB_SCN-RSP is sent in response to MOB_SCN-REQ, setting Scan Duration to zero denies MOB_SCN-REQ.
Report mode	2	0b00: No report 0b01: Periodic report 0b10: Event-triggered report 0b11: One-time scan report
Reserved	3	Shall be set to zero.
Rsp_Seq_Num	1	One-bit sequence number for this message that is incremented for each new message.
Use_Nbr_Bitmap_Index	1	Indicates if the bitmap of BS indexes for MOB_NBR-ADV is used.

Use_Req_Bitmap_Index	1	Indicates if the bitmap of BS indexes for
Ose_Req_Diffiap_fluex	1	MOB SCN-REQ is used.
Report period	8	If Report mode is set to 0b0l or 0b1l, this is the Report Period, in frames; otherwise this field is set to 0. For MS request denied (Scan Duration == 0), Report period is the number of frames that BS suggests to MS before transmitting next MOB_SCN-REQ.
Report metric	8	Bitmap indicating metrics on which the corresponding triggers are based: Bit 0: BS CINR mean Bit 1: BS RSSI mean Bit 2: Relative delay Bit 3: BS RTD: this metric shall be only measured on serving BS/anchor BS. Bits 4—7: Reserved; shall be set to zero.
If (Scan Duration != 0) {	_	_
Start frame	8	_
Interleaving interval	8	Duration in frames.
Scan iteration	8	_
If(Use_Nbr_Bitmap_Index == 1) {	_	_
Configuration change count for MOB_NBR-ADV	8	_
Nbr_Bitmap_Size	<u>8</u>	Size of Nbr_Bitmap_Index in bits, which may be less than or equal to the number of BSs in MOB_NBR_ADV.
Nbr_Bitmap_Index	Nbr Bitmap Size Up to the Number of BSs in MOB_NBR-ADV	Each bit position corresponds to a BS index of the corresponding MOB NBR-ADV message.
for(each '1' in Nbr_Bitmap_Index) {	_	_
Scanning_type	3	0b000: Scanning without association 0b001: Scanning with association level 0:
If((Scanning_type == 0b0l0) OR Scanning_type == 0b0ll){	_	_
Rendezvous_time	8	_
CDMA_code	8	_

Transmission_opportunity_offset	8	_
}	_	_
}	_	_
} else {	_	_
N_Recommended_BS_Index	8	Number of neighboring BS to be scanned or associated, which are using BS index that corresponds to the position of BS in MOB_NBR-ADV message. If both-N_Recommended_BS_Index, and-N_Recommended_BS_Full, Use Nbr Bitmap Index, and Use Req Bitmap Index are set to 0, the BS recommends the MS scan all neighbors listed in the MOB_NBR-ADV message. MS may scan a sub-set of the list.
If(N_Recommended_BS_Index != 0) {	_	_
Configuration change count for MOB_NBR-ADV	8	Configuration Change Count value of referring MOB_NBR-ADV message.
}	_	_
$for(j = 0; j < \\ N_Recommended_BS_Index; j++)\{$	_	_
Neighbor_BS_Index	8	BS index corresponds to position of BS in MOB_NBR-ADV message.
Reserved	1	Shall be set to zero.
Scanning type	3	0b000: Scanning without association 0b001: Scanning with association level 0: association without coordination 0b010: Scanning with association level 1: association with coordination 0b011: Scanning with association level 2: network assisted association 0b100—0b111: Reserved
If (Scanning type == 0b0l0 OR Scanning_type == 0b011) {	_	_
Rendezvous time	8	Units are frames.
CDMA code	8	From initial ranging codeset.
Transmission_opportunity offset	8	Units are transmission opportunity.
}	_	
}	_	_
}	_	_
If(Use_Req_Bitmap_Index == 1)	_	_

Req_Seq_Num	1	One-bit sequence number for the corresponding MOB SCN-REQ message.
Req Bitmap Size	8	Size of Req Bitmap Index in bits, which may be less than or equal to the number of BSs in the corresponding MOB SCN-REQ.
Req_Bitmap_Index	Req Bitmap Size Up to the Number of BSs in MOB_SC N-REQ	Each bit position corresponds to a BS index of the corresponding MOB_SCN-REQ message.
for(each '1' in Req_Bitmap_Index)	_	_
Scanning_type	3	0b000: Scanning without association 0b001: Scanning with association level 0:
if(Scanning_type == 0b0l0 OR Scanning_type == 0b0ll){	_	_
Rendezvous_time	8	_
CDMA_code	8	_
Transmission_opportunity_offset	8	_
}	_	_
}	_	_
}		_
N_Recommended_BS_Full	8	Number of neighboring BS to be scanned or associated, which are using full 48 bits BS ID.

[...]

Req_Seq_Num

One-bit sequence number for the corresponding-MOB_SCN-REQ message associated with a MOB_SCN-REQ BS_Index bitmap (Req_Bitmap_Index), where a bit position in this bitmap corresponds to a BS index of the MOB_SCN-REQ message and where a BS index corresponds to the position of a BS in the MOB_SCN-REQ message.

Rsp_Seq_Num

One-bit sequence number for this-the MOB_SCN-RSP message that is incremented Toggles after for each new transmission of this message, and may be included in a MOB_SCN-REP message to identify the MOB_SCN-RSP message associated with a MOB_SCN-RSP BS Index bitmap (Rsp_Bitmap_Index), where a bit position in this bitmap corresponds to a BS index of the MOB_SCN-RSP message and where a BS index corresponds to the position of a BS in the MOB_SCN-RSP message. When an BS receives a MOB_SCN-REP message from an MS that includes Rsp_Seq_Num, the BS shall compare its stored value of Rsp_Seq_Num with the one included in the MOB_SCN-REP message and discard the MOB_SCN-REP message if there is a mismatch.

Use_Nbr_Bitmap_Index

Indicates if the bitmap of BS indexes for MOB_NBR-ADV is used.

Use_Req_Bitmap_Index

Indicates if the bitmap of BS indexes for MOB_SCN-REQ is used.

Nbr_Bitmap_Index

Bitmap of BS indexes of BS into the for a MOB_NBR-ADV message, where a bit position in the bitmap corresponds to a BS index of a MOB_NBR-ADV message and where a BS index corresponds to the position of the BS in a MOB_NBR-ADV message.

Req_Bitmap_Index

Bitmap of BS indexes of BS into for the corresponding MOB_SCN_REQ message, where a bit position in the bitmap corresponds to a BS index of a MOB_SCN-REQ message and where a BS index corresponds to the position of the BS in a MOB_SCN-REQ message.

[...]

Modify Section 6.3.2.3.45 as follows:

6.3.2.3.45 MOB_SCN-REP (scanning result report) message

When the report mode is 0b10 (i.e., event triggered) in the most recently received MOB_SCN-RSP, the MS shall transmit a MOB_SCN-REP message to report the scanning results to its serving BS after each scanning period if the trigger condition is met. For a periodic report (i.e., Report Mode is 0b01) and for One-time Scan Report (Report Mode is 0b11), the MS reports the scanning results to its serving BS at the time indicated in the MOB_SCN-RSP message except when it is in the scanning interval. The MS shall include all available scanning results for the requested BSs specified in the said MOB_SCN-RSP message. The MS may transmit a MOB_SCN-REP message to report the scanning results to its serving BS at anytime. The message shall be transmitted on the Primary Management CID. (See Table 147).

[...]

Syntax	Size (bit)	Notes
MOB_SCN-REP_Message_format() {	_	
Management Message Type = 60	8	
Report Mode	1	0: Event-triggered report 1: Periodic report
N_current_BSs	3	When FBSS/MDHO is supported, N_current_BSs is the number of BSs currently in the diversity set; When FBSS/MDHO is not supported or the MS has an empty diversity set, N_current_BSs is set to 1.
Use_Nbr_Bitmap_Index	1	Indicates if the bitmap of BS indexes for MOB_NBR-ADV is used.
Use_Rsp_Bitmap_Index	1	Indicates if the bitmap of BS indexes for MOB_SCN-RSP is used.
Reserved	2	

Report metric	8	Bitmap indicating presence of certain metrics (threshold values) on which the corresponding trigger's are based: Bit 0: BS CINR mean Bit 1: BS RSSI mean Bit 2: Relative delay Bit 3: BS RTD; this metric shall be only measured between the serving BS/anchor BS and the reporting MS Bits 4-7: Reserved: shall be set to zero
For $(j = 0; j < N_current_BSs; j++)$ {	_	_
Temp BSID	4	Diversity set member ID assigned to this BS. When the MS has an empty diversity set or FBSS/MDHO is not supported. Temp BSID shall be set to 0.
Reserved	4	Shall be set to zero.
If (Report metric[Bit 0] == 1)	_	_
BS CINR mean	8	_
If (Report metric[Bit 1] == 1)	_	_
BS RSSI mean	8	_
If ((Report metric[Bit 2] == 1) and (TempBSID != anchor))	_	
Relative delay	8	In case FBSS/MDHO is in progress, this field shall include the relative delay of BSs currently in the diversity set, except for that of the anchor BS.
If ((Report metric[Bit 3] == 1) and ((TempBSID == anchor BS) or (TempBSID == serving BS)))	_	_
BS RTD	8	This field shall include the RTD between the serving BS anchor BS and the reporting MS.
}	_	_
if(Use_Nbr_Bitmap_Index == 1) {	_	_
Configuration change count for MOB_NBR-ADV	8	
Nbr Bitmap Size	8	Size of Nbr_Bitmap_Index in bits, which may be less than or equal to the number of BSs in MOB_NBR_ADV.
Nbr_Bitmap_Index	Nbr Bitmap Siz e Up to the	Each bit position corresponds to a BS index of the corresponding MOB NBR-ADV message.

	Number of BSs in MOB_ NBR ADV	
for(each '1' in Nbr_Bitmap_Index) {	_	_
if(Report_metric[Bit 0] == 1)	_	_
BS_CINR_mean	8	_
if(Report_metric[Bit 1] == 1)	_	_
BS_RSSI_mean	8	_
if(Report_metric[Bit 1] == 1)	_	_
Relative_delay	8	_
}	_	_
} else (_	_
N_Neighbor_BS_Index	8	Number of neighboring BS that are included in MOB_NBR-ADV message.
If (N_Neighbor_BS_Index != 0){	_	_
Configuration change count for MOB_NBR-ADV	8	Configuration Change Count value of referring MOB_NBR-ADV message
}	_	_
For(j = 0; j < N_Neighbor_BS_Index; j++ {	_	_
Neighbor_BS_Index	8	BS index corresponds to position of BS in MOB_NBR-ADV message
If(Report metric[Bit 0] == 1)	_	_
BS CINR mean	8	_
If(Report metric[Bit 1] == 1)	_	_
BS RSSI mean	8	_
If(Report metric[Bit 2] == 1)	_	_
Relative delay	8	_
}	_	_

}	_	_
N_Neighbor_BS_Full	8	Number of neighboring BS that are using full 48 bits BS ID.
$for(j = 0; j < N_Neighbor_BS_Full; \\ j++)\{$	_	_
Neighbor BSID	48	_
If(Report metric[Bit 0] == 1)	_	_
BS CINR mean	8	_
If(Report metric[Bit 1] == 1)	_	_
BS RSSI mean	8	_
If(Report metric[Bit 2] == 1)	_	_
Relative delay	8	_
}	_	_
If(Use_Rsp_Bitmap_Index == 1) {	_	_
Rsp_Seq_Num	1	One-bit sequence number for the corresponding MOB_SCN-RSP message.
Rsp Bitmap Size	8	Size of Rsp Bitmap Index in bits, which may be less than or equal to the number of BSs in the corresponding MOB_SCN-RSP.
Rsp_Bitmap_Index	Rsp_Bitmap_Size Up to the Number of BSs in MOB_SCN- RSP	Each bit position corresponds to a BS index of the corresponding MOB_SCN-RSP message.
for(each '1' in Rsp_Bitmap_Index) {	_	_
If(Report metric[Bit 0] == 1)	_	_
BS_CINR_mean	8	_
If(Report_metric[Bit 1] == 1)	_	_
BS_RSSI_mean	8	_
If(Report_metric[Bit 2] == 1)	_	_

Relative_delay	8	_
}	_	_
Padding	<u>variable</u>	If needed for alignment to byte boundary.
}	_	_
TLV encoded information	variable	Optional
}	_	

[...]

Rsp_Seq_Num

Sequence number for the corresponding MOB_SCN-RSP message associated with a MOB_SCN-RSP BS Index bitmap (Rsp_Bitmap_Index), where a bit position in this bitmap corresponds to a BS index of the MOB_SCN-RSP message and where a BS index corresponds to the position of a BS in the MOB_SCN-RSP message.

Use_Nbr_Bitmap_Index

Indicates if the bitmap of BS indexes for MOB NBR-ADV is used.

Use_Rsp_Bitmap_Index

Indicates if the bitmap of BS indexes for MOB_SCN-RSP is used.

Nbr_Bitmap_Index

Bitmap of BS indexes of BS into-for a MOB_NBR-ADV message₂- where a bit position in the bitmap corresponds to a BS index of a MOB_NBR-ADV message and where a BS index corresponds to the position of the BS in a MOB_NBR-ADV message.

Rsp_Bitmap_Index

Bitmap of BS indexes of BS into-for the corresponding MOB_SCN-RSP message, where a bit position in the bitmap corresponds to a BS index of a MOB_SCN-RSP message and where a BS index corresponds to the position of the BS in a MOB_SCN-RSP message.

[...]

Modify Section 6.3.22.1.2 as follows:

6.3.22.1.2 MS scanning of neighbor BSs

A BS may allocate time intervals to MS for the purpose of MS seeking and monitoring suitability of neighbor BSs as targets for HO. The time during which the MS scans for available BS will be referred to as a scanning interval.

[...]

When the Trigger Action in the DCD message is encoded as 0x3, on trigger, MS starts neighbor BS scanning process by sending MOB_SCN-REQ or by initiating Autonomous neighbor cell scanning (see 8.4.13.1.3) or both. If an MS is performing Autonomous scanning while the trigger condition is met, then the MS shall continue to perform Autonomous scan. In the MOB_SCN-REQ message the MS (the MOB_SCN-RSP message the BS) shall indicate group of neighbor BSs for which only Scanning or Scanning with Association are requested by MS (recommended by BS). Presence of those BSs for which Association is requested (recommended) is indicated by encoding of Scanning type >= 0b001. If both-N_Recommended_BS_Index_and-N_Recommended_BS_Full, Use Nbr Bitmap Index, and Use Req Bitmap Index_are set to 0, the MS requests to scan all neighbors listed in the MOB_NBR-ADV message.

[...]