IEEE P802.11  
Wireless LANs

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| Active-Scanning-Resolution-Text | | | | |
| Date: 2013-10-07 | | | | |
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|  |  |  |  |  |

Abstract

The submission contains a normative text to comment resolutions assigned to Jarkko Kneckt.

The submission shows the changes to the IEEE802.11ai D1.1 and these changes are proposed to be incorporated to the next 802.11ai draft. The comment resolutions are proposed in submission 13/1268r0.

The submission has incorporated the 802.11ad changes, but it does not have IEEE802.11mc D2.0 as a base standard. The changes will be incorporated to IEEE802.11mc D2.0 standard in the next version.

**6. Layer Management**

**6.3 MLME SAP interface**

**6.3.3 Scan**

**6.3.3.2 MLME-SCAN.request**

**6.3.3.2.2Semantics of the service primitive**

*Instructions to the editor: Change the primitives table as shown:*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Valid range | Description |
| FILSRequestParameters [CID2254] | FILS Request Parameter element | As defined in 8.4.2.177 (FILS Request Parameters element) | The parameters used in determining whether to transmit a Probe Response frame. This parameter is optionally present when dot11FILSActivated is true. |
| ReportingOption | Enumeration | IMMEDIATE, CHANNEL\_SPECIFIC, AT\_END | Indicates the result reporting mode. When immediate reporting is requested, every STA that is discovered during the scanning process shall be immediatly returned via MLME-SCAN.confirm using INTERMEDIATE\_SCAN\_RESULT as the ResultCode. [CID2921]This parameter is optionally present when dot11FILSActivated is true. |
| APConfigurationChangeCount | AP Configuration Change Count element | As defined in 8.4.2.184 (AP Configuration Change Count element) | When a specific BSSID is indicated in the MLMESCAN.request and dot11FILSActivated is true, the AP ConfigurationChangeCount associated with the stored configuration of the AP is optionally present~~, when dot11FILSActivated is true~~. [CID3094] |

**6.3.3.3 MLME-SCAN.confirm**

**6.3.3.3.2 Semantics of the service primitive**

*Instructions to the editor: Change the primitives list as shown:*

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| BSSDescriptionFromFDSet | Set of BSSDescriptionFromFD | N/A | TheBSSDescriptionFromFDSet is returned to indicate the results of the scan request derived from FD frames. It is a set containing zero or more instances of a BSSDescriptionFromFD. Present if dot11FILSActivated is true. |
| ResultCode | Enumeration | SUCCESS, INTERMEDIATE\_SCAN\_RESULT,  NOT\_SUPPORTED | Indicates the result of the MLME- SCAN.confirmprimitive. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Valid range | Description | IBSS Adoption |
| ANQP Configuration Sequence Number | Integer | 0 - 255 | The ANQP Configuration Sequence Number of the found BSS. This parameter is optionally present when dot11FILSActivated is true. [CID2813] | Do not adopt. |
| Differentiated ~~i~~Initial ~~l~~Link ~~s~~Setup information | Differentiated initial link setup information element which includes the ILSC information field and the ILS Time field[CID2255] | As defined in 8.4.2.187 (Differentiated Initial Link Setup element) | Includes the ILSC information field and the ILS Time field. This parameter is optionally present, when dot11FILSActivated is true. [CID2255] [CID2813] | Do not adopt. |

The BSSDescriptionFromFDSet parameter is present if dot11FILSActivated is true.[CID2258] Each BSSDescriptionFromFD~~Set~~ [CID3018]consists of the following information items:



**6.3.3.3.3 When generated**

***Change 6.3.3.3.3 as follows:***

This primitive is generated by the MLME as a result of an MLME-SCAN.request primitive or if dot11FILSActivated is true, by[CID2262] an MLMESCAN-STOP.request primitive following an MLME-SCAN.request primitive to ascertain the operating environment of the STA. If dot11FILSActivated is true, t~~T~~he primitive is invoked to provide a ~~report on~~ found BSS report that matches the setting in the MLME-SCAN.request's ReportingOption parameter. [CID2262] ~~as indicated in the ReportingOption MLME-parameter of the MLME-SCAN.request primitive.~~

**6.3.3.3.4 Effect of receipt**

***Change 6.3.3.3.4 as follows:***

~~As indicated by the ResultCode,~~ T~~t~~he SME is notified of ~~the intermediate or final~~ results of the scan procedure. If dot11FILSActivated is true, these results may be intermediate results, according to the value of the ResultCode. [CID2263]

***Insert a new clause 6.3.3.4 and subclauses as follows:***

**6.3.3.4 MLME-SCAN-STOP.request**

**6.3.3.4.1 Function**

This primitive terminates any ongoing scan.

**6.3.3.4.2 Semantics of the service primitive**

The primitive parameters are as follows:

MLME-SCAN-STOP.request (

)

**6.3.3.4.3 When generated**

This primitive is generated by the SME as means of stopping ~~any~~ all ongoing scan process in the STA.[CID2264]

**6.3.3.4.4 Effect of receipt**

This request terminates any ongoing scan procedures. ~~The passive and active scanning is stopped immediately after the primitive is received as described in 10.1.4.2 (Passive scanning) and 10.1.4.3.2 (Sending a probe response Active scanning procedure). The confirmation of the scan termination is provided through an MLME-SCAN.confirm primitive.~~ [CID2266]

*Instructions to Editor: make the following changes to the Description text in line 23 page 14.*

Specifies the type of traffic for a device to transmit.

This parameter is optionally present when dot11FILSActivated is true.[CID

*Instructions to Editor: make the following changes to the Description text in line 29 page 14.*

Used for the STA and AP to communicate data used by the FILS authentication algorithm.

This parameter is optionally present when dot11FILSActivated is true.

*Instructions to Editor: make the following changes to the Description text in line 7 page 15.*

Used for the STA and AP to communicate data used by the FILS authentication algorithm.

This parameter is optionally present when dot11FILSActivated is true.

*Instructions to Editor: make the following changes to the Description text in line 46 page 15.*

Used for the STA and AP to communicate data used by the FILS authentication algorithm.

This parameter is optionally present when dot11FILSActivated is true.

*Instructions to Editor: make the following changes to the Description text in line 46 page 16.*

Specifies the type of traffic for a device to transmit.

This parameter is optionally present when dot11FILSActivated is true.

**8.3.3.9 Probe Request frame format**

***Insert new rows/elements to Table 8-26(note that table numbers will be changing) as follows:***

|  |  |  |
| --- | --- | --- |
| Order | Information | Notes |
| 18 | FILS Request Parameters | The FILS Request Parameters element is ~~are~~ [CID2284] optionally present if dot11FILSActivated is true. |
| 19 | AP-CCC | The AP-CCC element [CID2284] is optionally present if dot11FILSActivated is true. |

**8.3.3.10 Probe Response frame format**

***Change Table 8-27(note that table numbers will be changing) as follows, inserting 5 new rows and changing one existing row;***

**Table 8-25—Reassociation Response frame body**

****

**~~8.4.2.178 Probe Response Reception Time element~~**

***Instructions to the editor: Delete clause 8.4.2.178. Delete or redirect all***

**~~~~**

**~~Figure 8-401cs—Probe Response Reception Time element~~**

~~The Element ID is equal to the Probe Response Reception Time element value in Table 8-54 (Element IDs).~~

~~The MaxChannelTime field contains the value of MaxChannelTime of the MLME-SCAN.request represented in an unsigned integer of units of 200 microseconds. It presents the time that the transmitter will be available after the transmission of the Probe Request to receive the Probe Responses since it contains the value of MaxChannelTime as shown in Figure 10-3c (Example of active scanning process when Probe Request frame is addressed to individual address.) and Figure 10-3d (Example of active scanning process when Probe Request frame is addressed to broadcast address.).~~

**10. MLME**

**10.1 Synchronization**

**10.1.4 Acquiring synchronization, scanning**

**10.1.4.1 General**

***Change the third paragraph in 10.1.4.1 of as follows:***

Upon receipt of the MLME-SCAN.request primitive, a STA shall perform scanning. All ESSs are scanned unless the scanned ESSs are limited by the MLME-parameters. [CID3183, CID3184] The SSID parameter indicates the SSID for which to scan. The SSID List parameter indicates one or more SSIDs for which to scan. To become a member of a particular ESS using passive scanning, a STA shall scan for Beacon and DMG Beacon frames containing that ESS’s SSID, returning all Beacon and DMG Beacon frames matching the desired SSID in the BSSDescriptionSet parameter of the corresponding MLME-SCAN.confirm primitive with the appropriate bits in the Capabilities Information field or DMG Capabilities field indicating whether the Beacon frame or the DMG Beacon framecame from an infrastructure BSS, PBSS, or IBSS. If the value of dot11RMMeasurementPilotActivated is greater than 1, the STA shall additionally scan for Measurement Pilot frames, returning in the BSSDescriptionFromMeasurementPilotSet parameter all Measurement Pilot frames that equal the requested BSSID of the corresponding MLME-SCAN.request primitive and are not already members of the BSSDescriptionSet. If dot11FILSActivated is true, the STA shall additionally scan for FILS Discovery frames, returning in the BSSDescriptionFromFDSet parameter all FILS Discovery frames of the scanned ESSs ~~that equal the requested~~ ~~BSSID of the corresponding MLME-SCAN.request primitive~~ [CID3186]and are not already members of the BSSDescriptionSet.

To actively scan, the STA shall transmit Probe request frames containing a wildcard SSID (see 8.4.2.2), the desired SSID or one or more SSID List elements elements, but a DMG STA might also have to transmit DMG Beacon frames or perform beamforming training prior to the transmission of Probe Request frames. When the SSID List element is present in the Probe Request frame, one or more of the SSID elements may include a wildcard SSID (see 8.4.2.2). The exact procedure for determining the SSID or SSID List values in the MLME SCAN.request primitive is not specified in this standard. When a STA scans for a BSS whose AP does not support the SSID List element, or for a BSS for which AP support of the SSID List element is unknown, the SSID element with an SSID or wildcard SSID shall be included in the MLME-SCAN.request primitive. Upon completion of scanning, an MLME-SCAN.confirm primitive is issued by the MLME indicating all of the BSS information received.

**10.1.4.2 Passive scanning**

.***Insert the following paragraph to the end of the subclause.***

If the MLME receives an MLME-SCAN-STOP.request primitive, the STA shall immediately stop the ongoing passive scanning process at the scanned channel, and shall not continue the passive scanning process at unscanned channels listed in the ChanneList parameter of the MLME-SCAN.request primitive. The MLME shall issue an MLME-SCAN.confirm primitive with ~~the~~ one or more BSSDescriptionSet, BSSDescriptionFromFDSet, or BSSDescriptionFromMeasurementPilotSet [CID2848]containing the gathered information since the previous issue of MLME-SCAN.comfirm primitive, or if the primitive has not been issued since the beginning of the scan, having the ResultCode set to SUCCESS.

**10.1.4.3.2 Sending a probe response Active scanning procedure**

~~STAs, subject to the criteria below, receiving Probe Request frames shall respond with a probe response only if:~~

~~a) The Address 1 field in the probe request is the broadcast address or the specific MAC address of the STA, and either item b) or item c) below.~~

~~b) The STA is a mesh STA and the Mesh ID in the probe request is the wildcard Mesh ID or the specific Mesh ID of the STA.~~

~~c) The STA is not a mesh STA and~~

~~1) The SSID in the probe request is the wildcard SSID, the SSID in the probe request is the specific SSID of the STA, or the specific SSID of the STA is included in the SSID List~~

~~element, and~~

~~2) The Address 3 field in the probe request is the wildcard BSSID or the BSSID of the STA.~~

~~Additionally, STAs with dot11InterworkingServiceActivated equal to true, receiving Probe Request frames containing an Interworking field in the Extended Capabilities element set to 1 shall examine the Interworking element in the received Probe Request frame and respond with a probe response only if~~

~~— The HESSID field, if present in the Interworking element, is the wildcard HESSID or the HESSID of the STA, and~~

~~— The Access Network Type field in the Interworking element is the wildcard Access Network Type or the Access Network Type of the STA.~~

~~Only APs and STAs in an IBSS or in an MBSS respond to probe requests. A result of the procedures defined in this subclause is that in each infrastructure BSS and IBSS there is at least one STA that is awake at any given time to receive and respond to probe requests. In an MBSS, STAs might not be awake at any given time to respond to probe requests. In an infrastructure BSS or in an IBSS, a STA that sent a Beacon frame shall remain in the Awake state and shall respond to probe requests, subject to criteria in the next paragraph, until a Beacon frame with the current BSSID is received. If the STA is contained within an AP, it shall remain in the Awake state and always respond to probe requests, subject to criteria in the next paragraph. There may be more than one STA in an IBSS that responds to any given probe request, particularly in cases where more than one STA transmitted a Beacon frame following the most recent TBTT, either due to not receiving successfully a previous Beacon frame or due to collisions between beacon transmissions.~~

~~In an infrastructure BSS or in an IBSS, STAs receiving Probe Request frames shall respond with a probe response when the SSID in the probe request is the wildcard SSID or matches the specific SSID of the STA or when the specific SSID of the STA is included in the SSID List element. Furthermore, a STA with dot11RadioMeasurementActivated true receiving a probe request with a DSSS Parameter Set element containing a Current Channel field value that is not the same as the value of dot11CurrentChannel shall not respond with a probe response. An AP shall respond to all probe requests meeting the above criteria. In an IBSS a STA that transmitted a Beacon frame since the last TBTT shall respond to group addressed Probe Request frames. A STA in an IBSS shall respond to Probe Request frames sent to the individual address of the STA.~~

~~An associated mesh STA that receives a Probe Request frame shall not respond with a Probe Response frame when dot11RadioMeasurementActivated is true and the Probe Request frame contains a DSSS Parameter Set element with its Current Channel field value different from the value of dot11CurrentChannelNumber.~~

~~Probe Response frames shall be sent as directed frames to the address of the STA that generated the probe request. The SSID List element shall not be included in a Probe Request frame in an IBSS.~~

~~Requested Element IDs in the Request element shall be included in the Probe Response if the responding STA supports it. In an improperly formed Request element, a STA may ignore the first element requestedthat is not ordered properly and all subsequent elements requested. In the probe response frame, the STA shall return the requested elements in the same order as requested in the Request element.~~

~~If dot11RadioMeasurementActivated is true and if the Request element of the Probe Request includes the RCPI element ID, the STA shall include in the Probe Response an RCPI element containing the measured RCPI value of the received Probe Request frame. If no measurement result is available, the RCPI value shall be set to indicate that a measurement is not available.~~

Upon receipt of the MLME-SCAN.request primitive with ScanType indicating an active scan, a STA shall use the following procedure:

For each channel to be scanned:

a) Wait until the ProbeDelay time has expired or a PHYRxStart.indication primitive has been received.

~~b) Perform the Basic Access procedure as defined in 9.3.4.2 if the STA is a non-DMG STA.~~

b~~c~~) If the STA is a DMG STA:

1) Start generation of DMG Beacon frames according to the rules described in 10.1.3.2b if the STA intends to transmit DMG Beacon frames with the Discovery Mode field set to 1.

2) Otherwise, proceed to step (~~e~~d).

c~~d~~) If a DMG Beacon frame is received, perform the beamforming training defined in 9.35.5.

d~~e~~) ~~If the STA is a DMG STA, p~~Perform the basic access procedure defined in 9.3.4.2.

e) If the STA is a FILS, the STA should goto step h) if the STA has received a broadcast addressed Probe Request frame and both of the following conditions are true:

1) The Probe Request has a Wildcard SSID or the same SSIDs as present in MLME-SCAN.request primitive.

2) The FILS Request Parameters element is not present in the received Probe Request or the FILS Request Parameters element of the Probe Request frame has only fields that are present in the MLME-SCAN.request primitive and for every field that is present in the FILS Request Parameters element of the Probe Request 10.1.4.3.5 allows the same or more responses as the FILS Request Parameters element present in the MLME-SCAN.request primitive. [CID2946, CID3189]

f) If the STA is a FILS STA, the STA should goto sub-step 1) of Step i) if the STA has received a broadcast addressed Probe Response or a Beacon or a Measurement Pilot or an FILS Discovery frame containing:

1) The SSID of the received frame is the same as present in the MLME-SCAN.request primitive.

2) If the FILS Request Parameters element is present in MLME-SCAN.request primitive, the received frame fulfills the 10.1.4.3.5 conditions for the FILS Request Parameters element of the MLME-SCAN.request primitive. [CID2946, CID3189]

g~~f~~) send a probe request to the broadcast or individual destination address or, in the case of a DMG STA only, (i) following the transmission of an SSW-Feedback frame, send a probe request to the MAC address of the DMG STA addressed by the SSW-Feedback frame or (ii) optionally, following the reception of an SSW-Feedback frame, send a probe request to the MAC address of the DMG STA that transmitted the SSW-Feedback frame. In all these cases, the probe request is sent with the SSID and BSSID from the MLME-SCAN.request primitive. When transmitted by a DMG STA, the probe request includes the DMG Capabilities element.

When the SSID List is present in the MLMESCAN. Request primitive, send one or more probe requests, each with an SSID indicated in the SSID List and the BSSID from the MLME-SCAN.request primitive.

h~~g~~) Set to 0 and start a ProbeTimer.

~~h) If PHY-CCA.indication (busy) has not been detected before the ProbeTimer reaches MinChannel-~~

~~Time, then~~

~~1) If the STA is a non-DMG STA, set the NAV to 0 and scan the next channel,.~~

~~2) Otherwise, when ProbeTimer reaches MaxChannelTime, process all received proberesponses.~~

~~i) Set the NAV to 0 and scan the next channel.~~

~~j) When the criteria defined in 10.1.4.3.5 are met, send a probe request to the broadcast or individual~~

~~destination address. When the SSID List is present in the MLME-SCAN.request primitive, send one~~

~~or more Probe Request frames, each with an SSID indicated in the SSID List and the BSSID from~~

~~the MLME-SCAN.request primitive.~~

~~k) Set a ProbeTimer to 0 and start the ProbeTimer.~~

i~~l~~) If PHY-CCA.indication (busy) primitive has not been detected before the ProbeTimer reaches Min-ChannelTime, then go to step f, else while the Probe Timer is less than the MaxChannelTime:

1. Process any received probe responses and Beacons;

2) ~~Process any received Beacons,~~ If the STA is a FILS STA, process any received measurement pilot~~s~~ and FILS Discovery frames ~~if dot11FILSActivated is true in the STA~~ [CID2181];

3) If dot11FILSActivated is true in the STA, ReportingOption is IMMEDIATE, and new AP or new information of the AP is detected, issue MLME-SCAN.confirm primitive with the Result-Code equal to INTERMEDIATE\_SCAN\_RESULT and ~~the~~ one or more BSSDescriptionSet, BSSDescriptionFromFDSet, or BSSDescriptionFromMeasurementPilotSet [CID2848] containing information of the detected AP;

4) If dot11FILSActivated is true and the ReportingOption is CHANNEL\_SPECIFIC, ~~issue~~ at the time when the Probe Timer reaches the MaxChannelTime issue [CID3222]an MLME-SCAN.confirm primitive, with the ResultCode equal to INTERMEDIATE\_SCAN\_RESULT and ~~the~~ one or more BSSDescriptionSet, BSSDescriptionFromFDSet, or BSSDescriptionFromMeasurementPilotSet [CID2848] containing information of all APs that have been discovered from the scanned channel.

j~~m~~) Set NAV to 0 and scan the next channel.

****

When all channels in the ChannelList have been scanned, the MLME shall issue an MLME-SCAN.confirm primitive with Resultcode set to SCAN\_SUCCESS and ~~the~~ one or more BSSDescriptionSet, BSSDescriptionFromFDSet, or BSSDescriptionFromMeasurementPilotSet [CID2848] containing all of the informationgathered during the scan.

If the MLME receives an MLME-SCAN-STOP.request primitive, the STA shall immediately stop the scanning of the channel. The STA shall not continue the active scanning process at unscanned channels listed in the ChannelList parameter of the MLME-SCAN.request primitive. The MLME shall issue an MLMESCAN.confirm primitive with the ResultCode set to SUCCESS and one or more BSSDescriptionSet, BSSDescriptionFromFDSet, or BSSDescriptionFromMeasurementPilotSet [CID2848] containing all of the information gathered during the scan.

***Note to the editor: These texts are moved from 10.1.4.3.5 to the end of 10.1.4.3.2 [CID3189]***

~~A Probe Request frame may contain Probe Response Reception Time element.~~ When ~~present,~~ the MaxChannelTime field of the ~~Probe Response Reception Time~~  FILS Request Parameters element of the Probe Request frame is present, the value of the MaxChannelTime is the MaxChannelTime of the MLME-SCAN.request as defined in 8.4.2.17~~8~~7.

The SSID List element shall not be included in a Probe Request frame in an IBSS.

**~~10.1.4.3.5 Active Scanning Procedure Sending a probe request~~**

***Instructions to the editor: delete the clause 10.1.4.3.5 and renumber the following clauses accordingly. [CID2354]***

***~~Insert the new clause 10.1.4.3.6 as follows.~~***

**~~10.1.4.3.6 Selecting the response frame to probe request~~**

~~If the criteria for responding to Probe Request frames as described in 10.1.4.3.7 are met, STAs receiving Probe Request frames shall respond as follows.~~

~~— When dot11FILSActivated equals true, STA may transmit Probe Response as described in 10.1.4.3.7.~~

~~— When dot11FILSActivated equals false, STA shall transmit Probe Response.~~ [CID3008]

**10.1.4.3.5~~7~~ ~~Criteria to respond to~~ ~~p~~Probe response criteria~~request~~ [CID2359]**

Non-FILS STAs receiving a Probe Request frame~~s~~ [CID2770] shall respond with a probe response, only if the criteria below is met. FILS STAs receiving a Probe Request frame~~s~~ [CID2770] shall respond with a probe response, only if the criteria below and the criteria in 10.1.4.3.6 are met: [CID2712]

~~STAs, subject to the criteria below, receiving Probe Request frames shall respond with a probe response only if:~~

1. The Address 1 field in the probe request is the broadcast address or the specific MAC address of the STA, and either item b) or item c) below.
2. The STA is a mesh STA and the Mesh ID in the probe request is the wildcard Mesh ID or the specific Mesh ID of the STA.

c) The STA is not a mesh STA and

1) The SSID in the probe request is the wildcard SSID, or the SSID in the probe request is the specific SSID of the STA, or the specific SSID of the STA is included in the SSID List element, and

2) The Address 3 field in the probe request is the wildcard BSSID or the BSSID of the STA.

Additionally, STAs with dot11InterworkingServiceActivated equal to true, receiving Probe Request frames containing an Interworking field in the Extended Capabilities element equal to 1 shall examine the Interworking element in the received Probe Request frame and respond with a probe response only if

— The HESSID field, if present in the Interworking element, is the wildcard HESSID or the HESSID of the STA, and

— The Access Network Type field in the Interworking element is the wildcard Access Network Type or the Access Network Type of the STA.

Additionally, when an AP with dot11FILSActivated equal to true, responds to a Probe Request frame~~s~~ containing a FILS Capability field in the Extended Capabilities element equal to 1, the AP shall transmit Probe Response frame in a PPDU using a rate other than a DSSS/CCK (Clause 16 or Clause 17) rate. [CID3335]

Only DMG STAs that are not members of a PBSS but that have transmitted at least one DMG Beacon frame with the Discovery Mode field set to 1, multi-band capable non-AP STAs for which the last received probe request included a Multi-band element, APs,PCPs, and STAs in an IBSS or in an MBSS respond to probe requests. A result of the procedures defined in this subclause is that in each infrastructure BSS, except in DMG BSSs, and IBSS there is at least one STA that is awake at any given time to receive and respond to probe requests. In an MBSS, STAs might not be awake at any given time to respond to probe requests. In an infrastructure BSS or in an IBSS, a STA that sent a Beacon frame shall remain in the Awake state and shall respond to probe requests, subject to criteria in the next paragraph, until a Beacon frame with the current BSSID is received. If the STA is contained within an AP, it shall remain in the Awake state and always respond to probe requests, subject to criteria in the next paragraph. There may be more than one STA in an IBSS that responds to any given probe request, particularly in cases where more than one STA transmitted a Beacon/DMGBeacon frame following the most recent TBTT, either due to not receiving successfully a previous Beacon/DMGBeacon frame or due to collisions between beacon transmissions.

In an infrastructure BSS or in an IBSS, STAs receiving Probe Request frames shall respond with a probe response when the SSID in the probe request is the wildcard SSID or matches the specific SSID of the STA or when the specific SSID of the STA is included in the SSID List element~~. Furthermore,~~ , except that [CID3336] a STA with dot11RadioMeasurementActivated true receiving a probe request with a DSSS Parameter Set element containing a Current Channel field value that is not the same as the value of dot11CurrentChannel shall not respond with a probe response. A DMG STA that is not member of a PBSS but that has transmitted at least one DMG Beacon with the Discovery Mode field set to 1, an AP, and a PCP shall respond to all probe requests meeting the above criteria. In an IBSS a STA that transmitted a Beacon or DMG Beacon frame since the last TBTT shall respond to group addressed Probe Request frames. A STA in an IBSS shall respond to Probe Request frames sent to the individual address of the STA.

An ~~associated~~ mesh STA that receives a Probe Request frame shall not respond with a Probe Responseframe when dot11RadioMeasurementActivated is true and the Probe Request frame contains a DSSS Parameter Set element with its Current Channel field value different from the value of dot11CurrentChannelNumber.**References:**