IEEE P802.11  
Wireless LANs

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| Proposed Text for TGai Specification Framework on active scanning enhancement | | | | |
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Abstract

This document proposes Text for TGai Specification Framwork on active scanning enhancement for Fast AP Discovery.

Proposed specification framework text in this document is from the following three accompanying documents:

* 11-12-0263r1Spec Framework Proposal: Selection of the AP for Scanning
* 11-12-0264r1 Spec Framework Proposal: Probe Response frame transmission interval
* 11-12-0265r3 Spec Framework Proposal: Selective transmission of the Probe Response

The above documents contain exactly the same text proposal for TGai Specification Framework, and they also contain presentation material and straw poll/motion section for the proposed text. Straw poll/motions on the proposed text in this document will be done with the above three documents.

**Revision notes**

***R2:*** *Initial version accepted by 802.11ai TG*

# Definitions

# Abbreviations and acronyms

# Security Framework

# IP Address Assignment

# Fast Network Discovery

*5.x Active Scanning Enhancements*

*Proposed Text from [12/0263r1]: Selection of the AP for Scanning*

* STA may include Exclusion List in the Probe Request frame that indicates the APs or STAs that should not transmit probe responses.
* Substrings of SSIDs or Mesh IDs can be used in the Exclusion List to indicate the APs or STAs that should not transmit probe responses.

*Proposed Text from [12/0264r1]: Probe Response frame transmission timeout interval*

* *The proposed text for Spec Framework document by this proposal has been merged into 11-12/0294r1 Active Scanning Reply Window*

*Proposed Text from [12/0265r3]: Selective transmission of the Probe Response*

* STA may include its preferences and/or capabilities information in the Probe Request frame. If the preferences and/or capabilities of the STA are not acceptable by the responding AP or STA, then the responding AP or STA shall not transmit Probe Response.
* If the STA that has sent the Probe Request is not acceptable by the responding AP or STA because of the responding AP’s or STA’s current operating condition, then the responding AP or STA shall not transmit Probe Response.
* STA may include its security processing preference and/or security capability in the Probe Request frame for Probe Request filtering.
* STA may include its preferred AP’s capabilities in the Probe Request frame for Probe Request filtering.
* AP Channel Report element included in the most recently received Probe Response may be used to select the next channel to be scanned

**References:**

[0] IEEE Std 802.11-2012

[1] 11-10/0238: TGai Use Cases

[2] 11-11/0811: TGai Evaluation Methodology

[3] 11-11/0745: TGai Functionl Requirements

[4] 11-12-0263r1 Spec Framework Proposal: Selection of the AP for Scanning

[5] 11-12/0059r1 Selection of the AP for Scanning

[6] 11-12/0060r0 Text for Selection of the AP for Scanning

[7] 11-12-0264r1 Spec Framework Proposal: Probe Response frame transmission interval

[8] 11-12/0061r1 Probe Response frame transmission interval

[9] 11-12/0062r1 Text for Probe Response frame transmission interval

[10] 11-12-0265r3 Spec Framework Proposal: Selective transmission of the Probe Response

[11] 11-12/0063r1 Selective transmission of the Probe Response

[12] 11-12/0064r0 Text for Selective transmission of the Probe Response

[13] 11-12/0294r1 Active Scanning Reply Window