IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 11bi D0.4 CR for 3.2 | | | | |
| Date: 2024-07-15 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Javier Contreras | Cisco |  |  | jacontre@cisco.com |
|  |  |  |  |  |

Abstract

This submission proposes resolutions for the following CIDs:

1044,1045, 1156, 1184, 1186

Revisions:

* Rev 0: Initial version of the document.

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbi D0.4 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbi D0.4 Draft. (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents). TGbi Editor: Editing instructions preceded by “TGbi Editor” are instructions to the TGbi editor to modify existing material in the TGbi draft. As a result of adopting the changes, the TGbi editor will execute the instructions rather than copy them to the TGbi Draft.***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 1044 | Antonio DeLaOlivaDelgado | 3.2 | 19.31 | I think the definition of EDP epoch sequence should also reference the EDP epoch reference interval | Indicate all epochs in an edp epoch sequence have the same edp epoch reference interval. | REVISED  One(#Ed) or more successive EDP epochs characterized by a starting time determined using the(#Ed) same EDP Epoch parameters and epoch reference interval.  TGbi editor to implement the changes in this in 11-24-1284/r3 |
| 1045 | Antonio DeLaOlivaDelgado | 3.2 | 19.35 | Frame anonymization talks about unencrypted fields in beacon frames, but the current text for frame anonymization does not discuss any of that | Please clarify, I would suggest at this point we do not talk about beacon in this definition | REJECTED  10.71.1 talks about general use of FA AID, which is applicable to beacons |
| 1156 | Patrice Nezou | 3.2 | 19.15 | What is exactly an EDP Epoch ? | Please harmonize the definitions with definition of individual and group EDP Epoch. | REVISED  Proposing:  A(#Ed) time window during(#Ed) which a set of EDP parameters remain constant and EDP STA will not change Frame Anonymization Parameters(#222r2)  TGbi editor to implement the changes in this in 11-24-1284/r3 |
| 1184 | Mark RISON | 3.2 | 19.20 | I think the EDP epochs have to be not just successive, but consecutive. Also at line 31 | As it says in the comment | REVISED  Agree in principle with the commenter  A(#Ed) fixed reference duration between the start times of two consecutive EDP epochs in an EDP epoch sequence.  One(#Ed) or more consecutive EDP epochs characterized by a starting time determined using the(#Ed) same EDP Epoch parameters  TGbi editor to implement the changes in this in 11-24-1284/r3 |
| 1186 | Mark RISON | 3.2 | 19.32 | "EDP Epoch parameters" should be "EDP epoch parameters" | As it says in the comment | ACCEPTED  One(#Ed) or more consecutive EDP epochs characterized by a starting time determined using the(#Ed) same EDP epoch parameters  TGbi editor to implement the changes in this in 11-24-1284/r3 |

**Discussion:**

CID1044

Added requested text for additional clarification

One(#Ed) or more successive EDP epochs characterized by a starting time determined using the(#Ed) same EDP Epoch parameters and epoch reference interval

CID1045

Rejected

Definitions follows same lines as 10.71.1 , where it talks about frame anonymzation, beacons are mentioned, and it includes general use of FA AID, which is applicable to beacons, as part of TIM

CID1156

Expands the definition to include expected behavior of STA during epoch:

A(#Ed) time window during(#Ed) which a set of EDP parameters remain constant and EDP STA will not change Frame Anonymization Parameters

CID1184

Agree with commenter

A(#Ed) fixed reference duration between the start times of two consecutive EDP epochs in an EDP epoch sequence.

One(#Ed) or more consecutive EDP epochs characterized by a starting time determined using the(#Ed) same EDP Epoch parameters

CID1186

Minor case change

One(#Ed) or more consecutive EDP epochs characterized by a starting time determined using the(#Ed) same EDP epoch parameters

**Proposal:**

*TGbi editor: Modify Clause 3.2 as follows (track change on):*

* Definitions specific to IEEE 802.11

***Insert the following definitions (maintaining alphabetical order):***

**EAPOL-Start Authentication frame:** An Authentication frame that carries all or part of an IEEE 802.1X Extensible Authentication Protocol (EAP) over local area network (LAN) (EAPOL) protocol data unit (PDU) of type EAPOL-Start.(#0031r4)

**enhanced data privacy (EDP) epoch:** [EDP epoch] A(#Ed) time window during(#Ed) which a set of EDP parameters remain constant and EDP STA will not change Frame Anonymization Parameters(#222r2)

(#222r2)

**enhanced**(#Ed) **data privacy (EDP) epoch reference interval:** [EDP epoch reference interval] A(#Ed) fixed reference duration between the start times of two consecutive EDP epochs in an EDP epoch sequence.(#222r2)

**enhanced data privacy (EDP) epoch parameters:** [EDP epoch parameters] A(#Ed) set of parameters characterizing an EDP epoch.(#222r2)

**enhanced data privacy (EDP) parameter:** [EDP(#Ed) parameter] Client privacy enhancements (CPE) or basic service set (BSS) privacy enhancements (BPE)(#Ed) parameter.(#222r2)

**enhanced data privacy (EDP) epoch sequence:** [EDP epoch sequence] One(#Ed) or more consecutive EDP epochs characterized by a starting time determined using the(#Ed) same EDP epoch parameters and epoch reference interval.(#222r2)

**frame anonymization:** [FA] Multi-link operation (MLO)(#Ed) mechanisms mitigating against presence monitoring using unencrypted fields in beacon frames and individually addressed frames.(#222r2)

**frame anonymization parameter set:** [FA parameter set] A(#Ed) set of parameters used in frame anonymization mechanisms.(#222r2)

**group enhanced data privacy (EDP) epoch:** [group EDP epoch] A(#Ed) time window in which each non-access point (non-AP)(#Ed) multi-link device (MLD)(#Ed) of a set of non-AP MLDs applies a set of EDP parameters that is valid for the duration of that group EDP epoch. (#222r2)

**individual enhanced data privacy (EDP) epoch:** [individual EDP epoch] A(#Ed) time window in which a single non-AP MLD applies a set of EDP parameters that is valid for the duration of that individual EDP epoch. (#222r2)

**over-the-air packet number:** [OPN](#Ed) The(#Ed) value transmitted in an individually addressed Counter Mode (CTR) with cipher-block chaining message authentication code (CBC-MAC) protocol (CCMP)(#Ed) header or Galois/Counter Mode (GCM) protocol (GCMP)(#Ed) header in the place of the packet number as part of frame anonymization.(#222r2)

**over-the-air sequence number:** [OSN](#Ed) The(#Ed) value transmitted in an individually addressed medium access control (MAC) protocol data unit (MPDU)(#Ed) header in the place of the sequence number as part of frame anonymization.(#222r2)

**presence monitoring:** determining the ongoing presence of non-access point (non-AP)(#Ed) multi-link devices (MLDs)(#Ed) associated to an AP MLD. (#222r2)