IEEE P802.11
Wireless LANs

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| Removing Content ID from EBCS MPDU |
| Date: 2022-03-08 |
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|  |  |  |  |  |

Abstract

This document describes the text proposal to remove content ID from EBCS MPDU.

**The baseline is D2.2.**

# Proposed text

### 9.3.2.1.4 The frame body

***Modify the paragraph as follows:***

For Data frames of subtype Null, QoS Null, QoS CF-Ack, QoS CF-Poll, and QoS CF-Ack +CF-Poll, the

Frame Body field is null (i.e., has a length of 0 octets); these subtypes are used for MAC control purposes.

For Data frames of subtype Data, the Frame Body field contains all of, or a fragment of, an MSDU after any

encapsulation for security. For Data frames of subtypes QoS Data, QoS Data +CF-Ack, QoS Data +CF-Poll,

and QoS Data +CF-Ack +CF-Poll, the Frame Body field contains an MSDU (or fragment thereof) or AMSDU

after any encapsulation for security. For Data frames of subtype QoS Data that are transmitted by a

mesh STA, the Frame Body field also contains a Mesh Control field, as described in 9.2.4.8.3 (Mesh Control

field). For Data frames of subtype EBCS Data, the Frame Body field contains an MSDU and overhead for

authentication in case of PKFA or HCFA, as described in 12.14.2.3 (PKFA MPDU format) or 12.14.3.3

(HCFA MPDU generation) respectively; in the case of HLSA, the Frame Body field contains an MSDU ~~and~~

~~EBCS overhead as described in 12.14.4.2 (HLSA MPDU Generation)~~.

### 12.14.2.3 PKFA MPDU format

***Modify Figure 12-55c as follows:***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | MAC Header | ~~Content ID~~ | Timestamp | Data Sequence | Data Length | Data (PDU) | Signature | FCS |
| Octets: | variable | ~~1~~ | ~~7~~8 | 2 | 2 | >=1 | variable | 4 |

**Figure 12-55c---PKFA MPDU format**

***Remove line at P86L46:***

~~The Content ID field contains the content ID of the EBCS traffic stream.~~

***Modify line at P86L63 as follows:***

Signature = Sign (transmitter’s private key, transmitter’s MAC address || PKFA MPDU fields from the

~~Content ID~~ Timestamp field to the end of the Data (PDU) field)

### 12.14.3.3 HCFA MPDU generation

***Modify Figure 12-55i as follows:***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | MAC Header | ~~Content ID~~ | Timestamp | HCFA Sequence | Key Sequence | Data Sequence |
| Octets: | variable | ~~1~~ | ~~7~~8 | 3 | 1 | 2 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Data Length | Data (PDU) | Disclosed Key | Instant Authenticator (optional) | HCFA Authenticator | FCS |
| Octets: | 2 | >=1 | variable | variable | variable | 4 |

**Figure 12-55i---HCFA MPDU format**

***Remove line at P93L20:***

~~The Content ID field contains the content ID of the EBCS traffic stream.~~

### 12.14.4.1 General

***Remove subclause 12.14.4.2:***

### ~~12.14.4.2 HCFA MPDU generation~~