IEEE P802.11
Wireless LANs

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| 11bi D0.4 Clause 6 |
| Date: 2024-10-23 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Po-Kai Huang | Intel |  |  | po-kai.huang@intel.com |

Abstract

This submission proposes texts for the editor note in clause 6

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 D0.6 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbi D0.6 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.***

**Discussion:**

Clause 6 modifications are tabled due to revision in revme. Since revme is published, clause 6 can be added based on the latest contents.

**Proposal: (track change on)**

6. Layer management

6.5 MLME SAP primitives

6.5.5 Authenticate

***Modify 6.5.5.2, 6.5.5.3, 6.5.5.4, and 6.5.5.5 as follows:***

6.5.5.2 MLME-AUTHENTICATE.request

6.5.5.2.1 Function

This primitive requests authentication with a specified peer MAC entity.

6.5.5.2.2 Semantics of the service primitive

***Change the primitive parameters as follows in the .request:***

The primitive parameters are as follows:

 MLME-AUTHENTICATE.request (

………………………….

Content of FILS Authentication frame,

Content of PASN Authentication frame,

Content of 802.1X Authentication frame,

Content of EDPKE Authentication frame,

VendorSpecificInfo

)

***Insert a new row in the following unnumbered table:***

|  |  |  |  |
| --- | --- | --- | --- |
| Name  | Type  | Valid range  | Description |
| … | … | … | … |
| AuthenticationType | Enumeration | OPEN\_SYSTEM,SHARED\_KEY,FAST\_BSS\_TRANSITION,SAE, FILS\_SHARED\_KEYWITHOUT\_PFS,FILS\_SHAREDKEY\_WITH\_PFS,FILS\_PUBLIC\_KEY, 802\_1X, EDPKE | Specifies the type of authenticationalgorithm to use during theauthentication process. |
| … | … | … | … |
| Content of PASN Authentication frame | … | … | … |
| Content of 802.1X Authentication frame | Sequence of elements and fields | As defined in 12.14.4 (IEEE 802.1X authentication utilizingAuthentication frames), 12.14.7.2 (IEEE 802.1X), 9.4.1.74 (Encapsulation Length field), 9.4.1.75 (Encapsulation field), 9.4.2.295 (AKM Suite Selector element), [9.4.2.23](#H09o4o2o24) (RSNE), 9.4.2.240 (RSNXE), 9.4.2.188 (FILS Nonce element), 9.4.2.312 (Diffie-Hellman Parameter element). | The set of elements and fields to be included in 802.1X Authentication frames. Present if AuthenticationType indicates 802\_1X and dot11EDPIEEE8021XAuthenticationUtilizingAuthenticationFrameActivated is true, otherwise not present. |
| Content of EDPKE Authentication frame | Sequence of elements and fields | As defined in [12.14.8.3.2](#H12o13o3o2) (EDPKE Frame Construction and Processing), [9.4.2.23](#H09o4o2o24) (RSNE), 9.4.2.240 (RSNXE), 9.4.2.186 (Wrapped Data element), 9.4.2.305 (PASN Parameters element), 9.4.2.47 (Timeout Interval element) | The set of elements and fields to be included in EDPKE Authentication frames. Present if AuthenticationType indicates EDPKE and dot11EDPKEActivated is true, otherwise not present. |
| VendorSpecificInfo  |  A set ofelements |  As defined in 9.4.2.25(Vendor Specific element) |  Zero or more elements. |

6.5.5.3 MLME-AUTHENTICATE.confirm

6.5.5.3.1 Function

This primitive reports the results of an authentication attempt with a specified peer MAC entity.

6.5.5.3.2 Semantics of the service primitive

***Change the primitive parameters as follows in the .confirm:***

MLME-AUTHENTICATE.confirm(

………………………….

Content of FILS Authentication frame,

Content of PASN Authentication frame,

Content of 802.1X Authentication frame,

Content of EDPKE Authentication frame,

VendorSpecificInfo

)

***Insert the following entry into the unnumbered table in this subclause maintaining the primitive order above :***

|  |  |  |  |
| --- | --- | --- | --- |
| Name  | Type  | Valid range  | Description |
| … | … | … | … |
| AuthenticationType | Enumeration | OPEN\_SYSTEM,SHARED\_KEYFAST\_BSS\_TRANSITION,SAE, FILS\_SHAREDKEY\_WITHOUT\_PFS,FILS\_SHARED\_KEY\_WITH\_PFS,FILS\_PUBLIC\_KEY,PASN, 802\_1X, EDPKE | Specifies the type of authenticationalgorithm that was used during theauthentication process. This valuematches the AuthenticationTypeparameter specified in the correspondingMLME-AUTHENTICATE.requestprimitive. |
| … | … | … | … |
| Content of PASN Authentication frame | … | … | … |
| Content of 802.1X Authentication frame | Sequence of elements and fields | As defined in 12.14.4 (IEEE 802.1X authentication utilizingAuthentication frames), 12.14.7.2 (IEEE 802.1X), 9.4.1.74 (Encapsulation Length field), 9.4.1.75 (Encapsulation field), 9.4.2.295 (AKM Suite Selector element), [9.4.2.23](#H09o4o2o24) (RSNE), 9.4.2.240 (RSNXE), 9.4.2.188 (FILS Nonce element), 9.4.2.312 (Diffie-Hellman Parameter element). | The set of elements and fields to be included in 802.1X Authentication frames. Present if AuthenticationType indicates 802\_1X and dot11EDPIEEE8021XAuthenticationUtilizingAuthenticationFrameActivated is true, otherwise not present. |
| Content of EDKPE Authentication frame | Sequence of elements and fields | As defined in [12.14.8.3.2](#H12o13o3o2) (EDPKE Frame Construction and Processing), [9.4.2.23](#H09o4o2o24) (RSNE), 9.4.2.240 (RSNXE), 9.4.2.186 (Wrapped Data element), 9.4.2.305 (PASN Parameters element), 9.4.2.47 (Timeout Interval element) | The set of elements and fields to be included in EDPKE Authentication frames. Present if AuthenticationType indicates EDPKE and dot11EDPKEActivated is true, otherwise not present. |

6.5.5.4 MLME-AUTHENTICATE.indication

6.5.5.4.2 Semantics of the service primitive

***Change the primitive parameters as follows in the .indication:***

MLME-AUTHENTICATE.indication(

………………………….

Content of FILS Authentication frame,

Content of PASN Authentication frame,

Content of 802.1X Authentication frame,

Content of EDPKE Authentication frame,

VendorSpecificInfo

)

***Insert the following entry into the unnumbered table in this subclause maintaining the primitive order above :***

|  |  |  |  |
| --- | --- | --- | --- |
| Name  | Type  | Valid range  | Description |
| … | … | … | … |
| AuthenticationType | Enumeration | OPEN\_SYSTEM,SHARED\_KEYFAST\_BSS\_TRANSITION,SAE, FILS\_SHAREDKEY\_WITHOUT\_PFS,FILS\_SHARED\_KEY\_WITH\_PFS,FILS\_PUBLIC\_KEY,PASN, 802\_1X, EDPKE | Specifies the type of authenticationalgorithm that was used during theauthentication process. This valuematches the AuthenticationTypeparameter specified in the correspondingMLME-AUTHENTICATE.requestprimitive. |
| … | … | … | … |
| Content of PASN Authentication frame | … | … | … |
| Content of 802.1X Authentication frame | Sequence of elements and fields | As defined in 12.14.4 (IEEE 802.1X authentication utilizingAuthentication frames), 12.14.7.2 (IEEE 802.1X), 9.4.1.74 (Encapsulation Length field), 9.4.1.75 (Encapsulation field), 9.4.2.295 (AKM Suite Selector element), [9.4.2.23](#H09o4o2o24) (RSNE), 9.4.2.240 (RSNXE), 9.4.2.188 (FILS Nonce element), 9.4.2.312 (Diffie-Hellman Parameter element). | The set of elements and fields to be included in 802.1X Authentication frames. Present if AuthenticationType indicates 802\_1X and dot11EDPIEEE8021XAuthenticationUtilizingAuthenticationFrameActivated is true, otherwise not present. |
| Content of EDPKE Authentication frame | Sequence of elements and fields | As defined in [12.14.8.3.2](#H12o13o3o2) (EDPKE Frame Construction and Processing), [9.4.2.23](#H09o4o2o24) (RSNE), 9.4.2.240 (RSNXE), 9.4.2.186 (Wrapped Data element), 9.4.2.305 (PASN Parameters element), 9.4.2.47 (Timeout Interval element) | The set of elements and fields to be included in EDPKE Authentication frames. Present if AuthenticationType indicates EDPKE and dot11EPASNActivated is true, otherwise not present. |

6.5.5.5 MLME-AUTHENTICATE.response

6.5.5.5.2 Semantics of the service primitive

***Change the primitive parameters as follows in the .response***

 MLME-AUTHENTICATE.response(

………………………….

Content of FILS Authentication frame,

Content of PASN Authentication frame,

Content of 802.1X Authentication frame,

Content of EDPKE Authentication frame,

VendorSpecificInfo

)

***Insert the following entry into the unnumbered table in this subclause maintaining the primitive order above :***

|  |  |  |  |
| --- | --- | --- | --- |
| Name  | Type  | Valid range  | Description |
| … | … | … | … |
| AuthenticationType | Enumeration | OPEN\_SYSTEM,SHARED\_KEYFAST\_BSS\_TRANSITION,SAE, FILS\_SHAREDKEY\_WITHOUT\_PFS,FILS\_SHARED\_KEY\_WITH\_PFS,FILS\_PUBLIC\_KEY,PASN, 802\_1X, EDPKE | Specifies the type of authenticationalgorithm that was used during theauthentication process. This valuematches the AuthenticationTypeparameter specified in the correspondingMLME-AUTHENTICATE.requestprimitive. |
| … | … | … | … |
| Content of PASN Authentication frame | … | … | … |
| Content of 802.1X Authentication frame | Sequence of elements and fields | As defined in 12.14.4 (IEEE 802.1X authentication utilizingAuthentication frames), 12.14.7.2 (IEEE 802.1X), 9.4.1.74 (Encapsulation Length field), 9.4.1.75 (Encapsulation field), 9.4.2.295 (AKM Suite Selector element), [9.4.2.23](#H09o4o2o24) (RSNE), 9.4.2.240 (RSNXE), 9.4.2.188 (FILS Nonce element), 9.4.2.312 (Diffie-Hellman Parameter element). | The set of elements and fields to be included in 802.1X Authentication frames. Present if AuthenticationType indicates 802\_1X and dot11EDPIEEE8021XAuthenticationUtilizingAuthenticationFrameActivated is true, otherwise not present. |
| Content of EDPKE Authentication frame | Sequence of elements and fields | As defined in [12.14.8.3.2](#H12o13o3o2) (EDPKE Frame Construction and Processing), [9.4.2.23](#H09o4o2o24) (RSNE), 9.4.2.240 (RSNXE), 9.4.2.186 (Wrapped Data element), 9.4.2.305 (PASN Parameters element), 9.4.2.47 (Timeout Interval element) | The set of elements and fields to be included in EDPKE Authentication frames. Present if AuthenticationType indicates EDPKE and dot11EDPKEActivated is true, otherwise not present. |