IEEE P802.11
Wireless LANs

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| --- |
| Proposed Comment Resolution Text for Removal of ULP Encapsultion from 11aq D1.2 |
| Date: 2015-05-12 |
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|  |  |  |  |  |

Abstract

This document is a proposed resolution normative text to remove ULP encapsulation from draft 11aq Amendment. The proposed text resolves for all CIDs in “Clause 8.4.2.174”, “Clause 8.4.4.22”, and “Clause 10.25.3.2.11.3” tabs in doc. 11-15-0321r10.

The baseline document is 11aq D1.2. The following format conventions are used:

1. The new added text is marked as blue underline text;
2. The deleted text is marked as ~~red strikethrough text~~;
3. The unchanged baseline standard text stays in black text;
4. The instruction is marked as *italic text highlighted by Yellow*.

*<The first changes to D1.2>*

## 3.1 Definitions

***Insert new definitions retaining alphabetic order as follows:***

**pre-association discovery protocol (PAD) :** A protocol to enable the discovery of service information for a pre-associated station (STA).

**service discovery:** The process of finding services, including procedures for querying and browsing for services offered by, or through, another STA.

**universally unique service identifier (UUSID):** An identifier that uniquely identifies a service.

**service hash**: Hash value formed by using the first 6 octets of the SHA-256 algorithm hashing of the value of the service name or universally unique service identifier (UUSID).

## 3.4 Abbreviations and acronyms

***Insert new acronyms, retaining alphabetic order as follows:***

ANQP-SD access network query protocol – service discovery

APP application

PAD preassociation discovery

UUSID universally unique service identifier

*<The next changes to D1.2>*

#### 6.3.3.3 MLME-SCAN.confirm

##### 6.3.3.3.2 Semantics of the service primitive

***Insert the following new rows to the end of the BSSDescription parameter table:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Valid range | Description | IBSS adoption  |
| Service Hint | Service Hint element | As defined in 8.4.2.171 (Service Hint element) | Provides an indication of the services advertised in Beacon frames by the BSS prior to association.The element is optionally present ifdot11UnsolicitedPADActivated is true, and absent otherwise. | Adopt |
| Service Advertisement  | Service Advertisement element | As defined in 8.4.2.172 (Service Advertisement) | Specifies the services advertised in Probe Response frames by the BSS prior to association and their statuses.The element is optionally present ifdot11SolicitedPADActivated is true, and absent otherwise. | Adopt |
| Service Hash | Service Hash element | As defined in 8.4.2.173 (Service Hash element) | Specifies services or services advertised by the BSS prior to association.The element is optionally present if either dot11UnsolicitedPADActivated or dot11SolicitedPADActivated is true, and absent otherwise. | Adopt |
|  |  |  |  |  |

### 6.3.11 Start

#### 6.3.11.2 MLME-START.request

##### 6.3.11.2.1 Semantics of the service primitive

***Change the primitive parameter list as shown:***

MLME-START.request(

SSID,
BSSType,
BeaconPeriod,
DTIMPeriod,
CF parameter set,
PHY parameter set,
IBSS parameter set,
ProbeDelay,
CapabilityInformation,
BSSBasicRateSet,
OperationalRateSet,
Country,
IBSS DFS Recovery Interval,
EDCAParameterSet,
DSERegisteredLocation,
HT Capabilities,
HT Operation,
BSSMembershipSelectorSet,
Extended Capabilities,
20/40 BSS Coexistence,
Overlapping BSS Scan Parameters,
MultipleBSSID,
InterworkingInfo,)AdvertisementProtocolInfo,
RoamingConsortiumInfo,
Mesh ID,
Mesh Configuration,
QMFPolicy,
DMG Capabilities,
Multi-band,
MMS,
DMG Operation,
Clustering Control,
CBAP Only,
PCP Association Ready,
VHT Capabilities,
VHT Operation,

Service Hint,

Service Advertisement,

Service Hash,

VendorSpecificInfo)

***Insert the following new rows before VendorSpecificInfo in the parameter table:***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| Service Hint | Service Hint element | As defined in 8.4.2.171 (Service Hint element) | Provides an indication of the services advertised in Beacon frames by the BSS. The element is optionally present if dot11UnsolicitedPADActivated is true, and absent otherwise. |
| Service Advertisement  | Service Advertisement element | As defined in 8.4.2.172 (Service Advertisement) | Specifies the services advertised in Probe Response frames by the BSS and their statuses. The element is optionally present if dot11SolicitedPADActivated is true, and absent otherwise. |
| Service Hash | Service Hash element | As defined in 8.4.2.173 (Service Hash element) | Specifies services or services advertised by the BSS during pre-association. The element is optionally present if either dot11UnsolicitedPADActivated or dot11SolicitedPADActivated is true, and absent otherwise. |
|  |  |  |  |

*<The next changes to D1.2>*

# 8. Frame Formats

## 8.3 Format of individual frame types

### 8.3.3 Management frames

#### 8.3.3.2 Beacon frame format

Change Table 8-27 in subclause 8.3.3.2 by inserting the following rows (ignoring the header row):

**Table 8-27—Beacon frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| **<**ANA**>**+1 | Service Hash | The Service Hash element is optionally present if dot11UnsolicitedPADActivated istrue. |
| **<**ANA**>**+2 | Service Hint | The Service Hint element is optionally present if dot11UnsolicitedPADActivated is true |
|  |  |  |

#### 8.3.3.9 Probe Request frame format

Change Table 8-33 in subclause 8.3.3.9 by inserting the following rows (ignoring the header row):

**Table 8-33—Probe Request frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| <ANA>+1 | Service Hash | The Service Hash element is optionally present if dot11SolicitedPADActivated is true. |

#### 8.3.3.10 Probe Response frame format

Change Table 8-34 in subclause 8.3.3.10 by inserting the following rows (ignoring the header row):

**Table 8-34—Probe Response frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| <ANA>+1 | Service Advertisement | The Service Advertisement element is optionally present if dot11SolicitedPADActivated is true. |
| <ANA>+2 | Service Hash | The Service Hash element is optionally present if dot11UnsolicitedPADActivated istrue. |
| <ANA>+3 | Service Hint | The Service Hint element is optionally present if dot11UnsolicitedPADActivated is true |
|  |  |  |

### 8.4.2 Elements

#### 8.4.2.1 General

{Editor's Note: the <ANA> flags below will be replaced by a number assigned by the IEEE 802.11 Assigned Numbers Authority prior to publication.}

Insert the following rows (ignoring the header row) in Table 8-74 after the preceding amendment’s last entry >

Table 8-74 – Element IDs

|  |  |  |  |
| --- | --- | --- | --- |
| Element | Element ID | Element ID Extension | Extensible |
| Service Hint ( see [8.4.2.171](#section_8_4_2_171)) | <ANA> |  |  |
| Service Advertisement ( see [8.4.2.172](#section_8_4_2_172)) | <ANA> |  |  |
| Service Hash (see [8.4.2.173](#section_8_4_2_173)) | <ANA> |  |  |
|  |  |  |  |

#### 8.4.2.26 Extended Capabilities element

{Editor's Note: the <ANA> flags below will be replaced by a number assigned by the IEEE 802.11 Assigned Numbers Authority prior to publication.}

Insert the following new row (ignoring the header row) in Table 8-132 after the preceding amendment’s last entry

|  |
| --- |
| Table 8-132 – Capabilities field |
| Bit | Information | Notes |
| <ANA> | Pre-association Discovery (PAD) | When dot11UnsolicitedPADActivated, dot11SolicitedPADActivated or dot11EncapsulatedPADActivated is true, the PAD field value is 1 to indicate the STA supports the PAD service as described in [10.25.3.2](#section_10_25_3_2_ANQP_procedures).Otherwise, the PAD field value is 0 to indicate the STA does not support this capability. |

#### 8.4.2.92 Advertisement Protocol element

Insert a new row in Table 8-210, after the ‘Registered location query protocol (RLQP)’ table entry, and change the Reserved table entry values accordingly

|  |
| --- |
| Table 8-210 - Advertisement protocol ID definitions |
| Name | Value |
| Access Network Query Protocol for Service Discovery (ANQP-SD) |  5  |

Insert a new dashed-list item (shown below) after the item ‘The RLQP support information…’

—The ANQP-SD supports service information retrieval using ANQP-elements. It is used by a requesting STA to query another STA (i.e., the receiving STA can respond to queries with or without proxying the query to a server in an external network). The use of an alternative Advertisement protocol ID allows the receiving STA to proxy the query to an alternative server in an external network. See clause [10.25.3.2.11](#section_10_25_3_2_11_ANQP_SD_procedures) for information on ANQP-SD procedures.

Insert the following four new subclauses, at the end of clause 8.4.2

#### 8.4.2.171 Service Hint element

The Service Hint element contains information identifying services that are supported by an AP. The Service Hint element is included in Beacon and Probe Response frames.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Element ID | Length | Bloom Filter Information |  *m*-bit Service Hint Map |
| Octets | 1 | 1 | 2 |  variable |

Figure 8-577a – Service Hint element format

The Element ID field and Length field are defined in [8.4.2.1](#Section_8_4_2_1) (General).

The value of the Length field is variable and is 2 plus the variable-length *m*-bit Service Hint Map field.

The Bloom Filter Information field is a 2-octet field, representing the settings of the Bloom filter. The format of the Bloom Filter Information field is shown in Figure 8-577b.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | B0 | B7 | B8 | B11 | B12 | B14 |
|  | Number of Services |  | Number of Hash Functions |  | Reserved |  |
| Bits | 0-8 |  | 9-12 |  | 13-15 |  |

Figure 8-577b – Bloom Filter Information field format

The Number of Services field indicates the maximum number of services, *n,* that can be supported by the AP. The maximum number of services is 512.

The Number of Hash Functions field indicates the number of hash functions, *k*, (out of the maximum of 16) used by the Bloom filter.

The m-bit Service Hint Map field provides an indication about the services offered by the AP, using the Bloom filter. For more information on the operation of the Bloom filter hash function, see section [10.25.3.4.5](#section_10_25_3_4_5), as well as Annex [ZA.4](#Annex_Za_4_Bloom_Filter)

#### 8.4.2.172 Service Advertisement element

The Service Advertisement element identifies a service, advertised by an AP.

The Service Advertisement element is included in the Probe Response returned by the AP in response to a Probe Request from a non-AP STA that has one or more matching Service Hashes.
For each matching Service Hash, the AP includes a corresponding Basic Service Information Descriptor subfield.

The format of the Service Advertisement element is shown in Figure 8-577c.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Element ID | Length | Basic Service Information Descriptors |
| Octets | 1 | 1 | Variable |

Figure 8-577c – Service Advertisement element format

The Element ID and Length fields are defined in [8.4.2.1](#Section_8_4_2_1) (General).

The Basic Service Information Descriptors field contains one or more Basic Service Information Descriptor subfields. The format of the Basic Service Information Descriptor subfield is shown in Figure 8-577d.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | AdvertisementID | Service Name Length | Service Name | ServiceStatus |
| Octets | 4 | 1 | variable | 1 |

**Figure 8-577d – Basic Service Information Descriptor subfield format**

The Advertisement ID field is a 4-octet unsigned integer assigned by the AP when advertising a service.

The Service Name Length field contains the length of the Service Name field.

The Service Name field contains a UTF-8 encoded string with a maximum length of 63 octets. It may be an official IANA registered name, as defined in RFC 6335, or a developer-specified name.

The Service Status subfield is 1-octet long, indicating the current status of the service as shown in Table 8-248a.

Table 8-248a – Service Status subfield value

|  |  |
| --- | --- |
| **Service Status value** | **Description** |
| 0 | not available |
| 1 | available |
| 2-255 | reserved |

#### 8.4.2.173 Service Hash element

The Service Hash element consists of one or more Service Hashes. The Service Hash element is included in Beacon, Probe Request and Probe Response frames.

The format of the Service Hash element is shown in Figure 8-577e.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Element ID | Length | Service Hash  |
| Octets | 1 | 1 | Multiple 6-octet service hashes  |

Figure 8-577e – Service Hash element format

The Element ID and Length fields are defined in [8.4.2.1](#Section_8_4_2_1) (General).

The Service Hash field contains one or more 6-octet service hashes. A service hash is formed by using the first 6 octets of the SHA-256 hashing algorithm applied to the service name.

|  |  |  |  |
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|  |  |  |

Insert new/modified entries in Table 8-257 as shown

{Editor's Note: the <ANA> flags below will be replaced by a number assigned by the IEEE 802.11 Assigned Numbers Authority prior to publication.}

### Access network query protocol (ANQP) elements

|  |
| --- |
| Table 8-257 – ANQP-element definitions  |
| ANQP-element name | Info ID | ANQP- (Ed)element (subclause) |
| Service Information Request | <ANA> | 8.4.5.20 (Service Information Request ANQP-element) |
| Service Information Response | <ANA> | 8.4.5.21 (Service Information Response ANQP-element) |
|  |  |  |
| Reserved | <ANA> – 56796 | n/a |

Insert the following three new subclauses, following subclause 8.4.5.19

#### 8.4.5.20 Service Information Request ANQP-element

The Service Information Request ANQP-element is sent by the non-AP STA to an AP to request service information. It is included in a GAS Query Request.

The format of the Service Information Request ANQP-element is shown in Figure 8-607a.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Info ID | Length | Service Name Length | Service Name | Service Information Query Length | Service Information Query  |
| Octets: | 2 | 2 | 1 | variable | 1 | variable |

**Figure 8-607a – Service Information Request ANQP-element format**

The Info ID and Length fields are defined in 8.4.5.1.

The Service Name Length and Service Name fields are defined in [8.4.2.172](#section_8_4_2_172).

The Service information Query Length field contains the length of the Service Information Query field.

The Service Information Query field contains service-specific query, such as key-value query.

The procedure used for this element is described in clause [10.25.3.2.11.1](#_10.25.3.2.11.1_ANQP-SD_Service).

#### 8.4.5.21 Service Information Response ANQP-element

The Service Information Response ANQP-element provides detailed service information between STAs, using the GAS protocol, in response to a Service Information Request ANQP-element. The Service Information Response ANQP-element is included in a GAS Query Response, sent by the AP to the non-AP STA.

The format of the Service Information Response ANQP-element is shown in Figure 8-607b.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Info ID | Length | Detailed Service Information Descriptors |
| Octets | 2 | 2 | variable |

**Figure 8-607b - Service Information Response ANQP-element format**

The Info ID and Length fields are defined in 8.4.5.1.

The Detailed Service Information Descriptors field contains one or more Detailed Service Information Descriptor subfields (Figure 8-607c).

The format of the Detailed Service Information Descriptor subfield is shown in Figure 8-607c

|  |  |  |  |
| --- | --- | --- | --- |
|  | Basic Service Information Descriptor | Service Information Query Response Length | Service Information Query Response |
| Octets | variable  | 2 | variable |

**Figure 8-607c – Detailed Service Information Descriptor subfield format**

The Basic Service Information Descriptor field is defined in [8.4.2.172](#section_8_4_2_172).

The Service Information Query Response field is a variable length field. The format of the Service Information Query Response is service-specific that contains requested service information.

The procedure used for this element is described in clause [10.25.3.2.11.2](#_10.25.3.2.11.2_ANQP-SD_Service)

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

*<The next changes to D1.2>*

# 10. MLME

## 10.25 WLAN interworking with external networks procedures

### 10.25.3 Interworking procedures: generic advertisement service (GAS)

Insert the following text at the beginning of section 10.25.3.2.1

#### 10.25.3.2 ANQP procedures

##### 10.25.3.2.1 General(Ed)

In this clause, ANQP refers to the Advertisement Protocols indicated by the Advertisement Protocol IDs 0 and 5.

Insert in Table 10-16 a new column heading “Advertisement Protocol ID” and new elements, as shown

|  |  |
| --- | --- |
| Table 10-16 - ANQP usage(11u) |  |
|  |  | BSS | IBSS | Advertisement Protocol ID |
| ANQP-element Name | ANQP-element (subclause)(Ed) | ANQP-element Type | AP | Non-AP STA | STA |  |
| Query List | 8.4.5.2 (Query List ANQP-element) | Q | T, R | T, R | T, R | 0 |
| Capability List | 8.4.5.3 (Capability List ANQP-element) | S | T, R | T, R | T, R | 0 |
| Venue Name | 8.4.5.4 (Venue Name ANQP-element ) | S | T | R | — | 0 |
| Emergency Call Number | 8.4.5.5 (Emergency Call Number ANQP-element ) | S | T | R | — | 0 |
| Network Authentication Type | 8.4.5.6 (Network Authentication Type ANQP-element) | S | T | R | — | 0 |
| Roaming Consortium | 8.4.5.7 (Roaming Consortium ANQP- element) | S | T | R | — | 0 |
| Vendor Specific | 8.4.5.8 (Vendor Specific ANQP-element) | Q, S | T, R | T, R | T, R | 0 |
| IP Address Type Availability | 8.4.5.9 (IP Address Type Availability ANQP-element ) | S | T, R | T, R | T, R | 0 |
| NAI Realm | 8.4.5.10 (NAI Realm ANQP-element) | S | T | R | T, R | 0 |
| 3GPP Cellular Network | 8.4.5.11 (3GPP Cellular Network ANQP-element) | S | T | R | — | 0 |
| AP Geospatial Location | 8.4.5.12 (AP Geospatial Location ANQP-element) | S | T | R | T, R | 0 |
| AP Civic Location | 8.4.5.13 (AP Civic Location ANQP-element)  | S | T | R | T, R | 0 |
| (#13006)AP Location Public Identifier URI | 8.4.5.14 (AP Location Public Identifier URI ANQP-element)  | S | T | R | T, R | 0 |
| Domain Name | 8.4.5.15 (Domain Name ANQP-element) | S | T | R | — | 0 |
| Emergency Alert Identifier URI | 8.4.5.16 (Emergency Alert URI ANQP-element) | S | T | R | T, R | 0 |
| TDLS Capability (#13018) | 8.4.5.18 (TDLS Capability ANQP-element) | Q, S | T,R | T,R | T, R | 0 |
| Emergency NAI | 8.4.5.17 (Emergency NAI ANQP-element) | S | T | R | — | 0 |
| Neighbor Report | 8.4.5.19 (Neighbor Report ANQP-element) | S | T | R | - | 0 |
| Service Information Request | 8.4.5.20 (Service Information Request ANQP-element) | Q | T, R | T,R | T, R | 5 |
| Service Information Response | 8.4.5.21 (Service Information Response ANQP-element) | S | T, R | T, R | T, R | 5 |
|  |  |  |  |  |  |  |
| **Symbols**Q element is an ANQP queryS element is an ANQP responseT ANQP-element may be transmitted by MAC entityR ANQP-element may be received by MAC entity— ANQP-element is neither transmitted nor received by MAC entity |  |

Insert the following new clause and three subclauses after 10.25.3.2.10

##### 10.25.3.2.11 ANQP-SD procedures

ANQP-SD uses an alternative Advertisement Protocol ID (ID=5) as opposed to the non-service discovery ANQP (Advertisement Protocol ID=0). This is to allow the receiving STA to proxy ANQP-SD queries to an alternative server in an external network, if required. The receiving STA may also directly respond to ANQP-SD queries.

Since a GAS query only has a single Advertisement Protocol ID, a requesting STA shall not send a mixture of ANQP and ANQP-SD queries simultaneously. If the receiving STA or server in an external network receives an ANQP-element that is not supported, it is discarded.

###### 10.25.3.2.11.1 Service Information Request procedure

The Service Information Request ANQP-element (see [8.4.5.20](#section_8_4_4_20_Service_info_request)) is used by a requesting STA to perform an ANQP-SD request using the procedures defined in [10.25.3.2.1](#section_10_25_3_2_1_General).

The Service Information Request ANQP-element is used to discover available services within the BSS. A Service Name may be placed within the request. The Service Name is used within the BSS to assist with discovering services, as described in Annex ZA.

The Service Discovery Information Request ANQP element is redirected to the proxy as described in Annex ZA, as this query is directed to the Service Information Server, as opposed to an ANQP Server.

If no Service Name value is present, the BSS will return all known services within the response.

###### 10.25.3.2.11.2 Service Information Response procedure

The Service Information Response ANQP-element is returned in response to a Service Information Request ANQP-element. It contains a list of Service Information Descriptors resulting from the service discovery as described in Annex ZA.

*<The last changes to D1.2>*

# Annex B

## (normative)

## Protocol Implementation Conformance Statement (PICS) - proforma

## B.2 Abbreviations and special symbols

### General abbreviations for Item and Support columns

<Insert the following new list item, at the end of B.2.2>

PAD pre-association discovery

## PICS proforma - IEEE Std 802.11-<year>[[1]](#footnote-1)

### IUT configuration

<Insert the following entry at the end of the IUT configuration table>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| Item | IUT configuration | References | Status | Support |
| \*CF33 |  Pre-Association Discovery | 10.25.3.2.11(ANQP-SD10.25.3.4 (PAD) | O | Yes  No  N/A  |
|  |  |  |  |  |

Insert the following new subclause at the end of clause B.4

### B.4.27 Pre-Association Discovery Extensions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Protocol capability | References | Status | Support |
| PAD1 | Advertisement Protocol element | 8.4.2.92 | CF33 | Yes □ No □ N/A □ |
| PAD2 | Service Hint element | 8.4.2.171 | CF33 | Yes □ No □ N/A □ |
| PAD3 | Service Advertisement element | 8.4.2.172 | CF33 | Yes □ No □ N/A □ |
| PAD4 | Service Hash element | 8.4.2.173 | CF33 | Yes □ No □ N/A □ |
|  |  |  |  |  |
| PAD5 | Unsolicited PAD | 10.25.3.4.2 | CF33 | Yes □ No □ N/A □ |
| PAD6 | Solicited PAD | 10.25.3. 4.3 | CF33 | Yes □ No □ N/A □ |
|  |  |  |  |  |

# Annex C

**(normative)**

## ASN.1 encoding of the MAC and PHY MIB

## C.3 MIB Detail

***<Insert new MIB values as follows:>***

dot11PADImplemented OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-only

 STATUS current

 DESCRIPTION

"This is a capability variable. Its value is determined by device capabilities.

This attribute when true, indicates the STA is capable of pre-association discovery(PAD)with external networks. A STA setting this to true, implements PAD. When this is false, the STA does not implement PAD.”

 DEFVAL {false}

::= { dot11StationConfigEntry *<ANA>*}

dot11SolicitedPADActivated OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

It is written by an external management entity or the SME. Changes take effect as soon as practical in the implementation.

This attribute when true, indicates that the capability of the STA to operate Solicited PAD with external networks is enabled. The capability is disabled otherwise."

 DEFVAL {false}

::= { dot11StationConfigEntry *<ANA>*}

dot11UnsolicitedPADActivated OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

It is written by an external management entity or the SME. Changes take effect as soon as practical in the implementation.

This attribute when true, indicates that the capability of the STA to operate Unsolicited PAD with external networks is enabled. The capability is disabled otherwise."

 DEFVAL {false}

::= { dot11StationConfigEntry *<ANA>*}

1. *1Copyright release for PICS proforma:* Users of this standard may freely reproduce the PICS proforma in this annex so that it can be used for its intended purpose and may further publish the completed PICS. [↑](#footnote-ref-1)