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| Project | **IEEE 802.21 MIHS****<**[**http://www.ieee802.org/21/**](http://www.ieee802.org/21/)**>** |
| Title | **Proposed remedy for Comment #47** |
| DCN | **21-14-0058-00-MuGM** |
| Date Submitted | **March 20, 2014** |
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| Re: | IEEE 802.21 Session #61 in Beijing |
| Abstract | This document describes a proposed remedy for LB7b Comment #47 about MIH\_Pull\_Credential primitives. |
| Purpose | To addresses LB7b Comment #47. |
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[1] *Change 7.4.33 as follows.*

**7.4.33 MIH\_Pull\_Certificate~~Credential~~**

**7.4.33.1 MIH\_Pull\_Certificate~~Credential~~.request**

**7.4.33.1.1 Function**

This primitive is generated by an MN or a PoS and it is used to request sending of a PoS certificate from the destination PoS to the requestor.

**7.4.33.1.2 Semantics of service primitive**

MIH\_Pull\_Certificate~~Credential~~.request (

DestinationIdentifier,

)

Parameters:

|  |  |  |
| --- | --- | --- |
| **Name** | **Data Type** | **Description** |
| DestinationIdentifier | MIHF\_ID | This identifies a remote MIHF that will be the destinationof this request.~~Specifies the sender of the credential.~~ |

**7.4.33.1.3 When generated**

An MN generates this primitive for requesting a PoS credential ~~or for credential updates~~.

**7.4.33.1.4 Effect on receipt**

Upon receipt of this primitive, the MIHF on the MN sends the corresponding MIH\_Pull\_Certificate~~Credential~~ request message to the ~~destination MN or~~ PoS.

**7.4.33.2 MIH\_Pull\_Certificate~~Credential~~.indication**

**7.4.33.2.1 Function**

This primitive is generated by an MIHF that receives an MIH\_Pull\_Certificate~~Credential~~ request message in order to inform the MIH User.

**7.4.33.2.2 Semantics of service primitive**

MIH\_Pull\_Certificate~~Credential~~.indication (

SourceIdentifier,

)

Parameters:

|  |  |  |
| --- | --- | --- |
| **Name** | **Data Type** | **Description** |
| SourceIdentifier | MIHF\_ID | This identifies the invoker of this primitive, which isa remote MIHF.~~Identifies the requester of the~~~~credential.~~ |

**7.4.33.2.3 When generated**

This primitive is generated by an MIHF when an MIH\_Pull\_Certificate~~Credential~~ request message is received.

**7.4.33.2.4 Effect on receipt**

Upon reception of this primitive, the MIH user generates an MIH\_Pull\_Certificate~~Credential~~.response to deliver a PoS certificate~~credential~~ to the requester.

**7.4.33.3 MIH\_Pull\_Certificate~~Credential~~.response**

**7.4.33.3.1 Function**

This primitive is generated by an MIH User in order to deliver a PoS certificate~~credential~~ to an MN or other PoS ~~for MIH protocol protection as described in IEEE Std 802.21a-2012 Section 9~~.

**7.4.33.3.2 Semantics of service primitive**

MIH\_Pull\_Certificate~~Credential~~.response (

DestinationIdentifier,

Certificate~~EncryptedCredential~~

)

Parameters:

|  |  |  |
| --- | --- | --- |
| **Name** | **Data Type** | **Description** |
| DestinationIdentifier | MIHF\_ID | This identifies a remote MIHF that will be the destinationof this response.~~Specifies the sender of the credential.~~ |
| Certificate~~EncryptedCredential~~ | CERTIFICATE~~ENCRYPTED\_KEY~~ | A PoS's X.509 certificate forsignature-based MIH protection as described in 8.4.2.~~Encrypted credential used for~~~~creating an EAP-generated MIH SA.~~ |

**7.4.33.4 MIH\_Pull\_Certificate~~Credential~~.confirm**

**7.4.33.4.1 Function**

This primitive is generated by an MIHF that receives an MIH\_Pull\_Certificate~~Credential~~ response, in order to inform of the PoS certificate~~credential~~ received by the MIHF ~~User~~.

**7.4.33.4.2 Semantics of service primitive**

MIH\_Pull\_Certificate~~Credential~~.confirm (

SourceIdentifier,

Certificate~~Credential~~

)

Parameters:

|  |  |  |
| --- | --- | --- |
| **Name** | **Data Type** | **Description** |
| SourceIdentifier | MIHF\_ID | This identifies the invoker of this primitive, which isa remote MIHF. ~~Identifies the remote MIHF that~~~~invoked MIH\_Pull\_Credential~~~~response.~~ |
| Certificate~~Credential~~ | CERTIFICATE~~KEY~~ | A PoS's X.509 certificate forsignature-based MIH protection as described in 8.4.2. ~~A credential for MIH protection as~~~~described in Section 9 of IEEE Std 802.21a-2012~~ |

**7.4.33.4.3 When generated**

The MIHF that receives an MIH\_Pull\_Certificate~~Credential~~ response message generates this primitive to indicate the PoS ceritificate~~credential~~.

**7.4.33.4.4 Effect on receipt**

Upon reception of this primitive, the MIH User installs the PoS certificate for signature verification of MIH PDUs sent by the remote MIHF.

~~After verification, validated credential keys within their expiration period can be utilized for IEEE 802.21a.~~

[2] In 8.6.1.26 and 8.6.1.27:

 - Change MIH\_Pull\_Credential to MIH\_Pull\_Certificate

 - Change parameter name “EncryptedCredential” to “Certificate”

 - Change Encrypted Credential TLV to Certificate TLV

[3] In 7.4.34, 8.6.1.28 and 8.6.1.29:

- Change MIH\_Push\_Credential to MIH\_Push\_Certificate

- Change parameter name “Credential” to “Certificate”.

- Change parameter name “CredentialStatus” to “CertificateStatus”

- Change parameter name “CredentialSerialNumber” to “CertificateSerialNumber”

- Change Credential TLV to Certificate TLV

- Change Credential Status TLV to Certificate Status TLV

- Change Credential Serial Number TLV to Certificate Serial Number TLV

[4] In 7.4.35, 8.6.1.30, 8.6.1.31:

- Change MIH\_Revoke\_Credential to MIH\_Revoke\_Certificate

- Change parameter name “CredentialStatus” to “CertificateStatus”

- Change parameter name “CredentialSerialNumber” to “CertificateSerialNumber”

- Change parameter name “CredentialRevocation” to “CertificateRevocation”

- Change Credential Status TLV to Certificate Status TLV

- Change Credential Serial Number TLV to Certificate Serial Number TLV

- Change Credential Revocation Signature TLV to Certificate Revocation Signature TLV

[5] In Table L.2,

Change “Credential Revocation Signature” to “Certificate Revocation Signature”

Change “Credential” to “Certificate”

Change “Credential Serial Number” to “Certificate Serial Number”

Change “Credential Status” to “Certificate Status”