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| Project | **IEEE 802.21m Media Independent Services** **<**[**http://www.ieee802.org/21/**](http://www.ieee802.org/21/)**>** |
| Title | **Proposed remedy for Cmt #18 of LB10** |
| DCN | **21-16-0077-01-REVP** |
| Date Submitted | **May 19, 2016** |
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| Re: | Session #74, Big Island, HI, USA |
| Abstract | MIS\_Push\_Certificate response message contains Certificate Serial Number Info TLV. But, MIS\_Push\_Certificate.response primitive does not contain CertificateSerialNumber parameter. So, generating method of Certificate Serial Number Info TLV from MIS\_Push\_Certificate.response primitive is unclear.This contribution proposes deleting Certificate Serial Number Info TLV from MIS\_Push\_Certificate response message, and fixing editorial errors related to Certificate Serial Number Info TLV.  |
| Purpose | Suggested remedy for Cmt #18 in LB10. |
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Comment:

CertificateSerialNumbers parameter is contained in MIS\_Push\_Certificate response message, however the parameter is not contained in the corresponding MIS primitive that is defined in 7.4.23.3.

Problem:

 MIS\_Push\_Certificate response message contains Certificate Serial Number Info TLV. But, MIS\_Push\_Certificate.response primitive does not contain CertificateSerialNumber parameter. So, generating method of Certificate Serial Number Info TLV from MIS\_Push\_Certificate.response primitive is unclear.

In some use case, CertificateSerialNumber parameter in Certificate Serial Number Info TLV is useful for managing certificates in an MIS user, but MIS\_Push\_Certificate.confirm does not include CertificateSerialNumber parameter.

 # Ex. When a PoS issues two MIS\_Push\_Certificate request messages simaltanusly, CertificateSerialNumber parameter is required to indistingush MIS\_Push\_Certificate.confirm primitive.

 There are Certificate Serial Number TLV which is undefined TLV. It should be Certificate Serial Number Info TLV.

Suggested remedy:

 Delete Certificate Serial Number Info TLV from MIS\_Push\_Certificate response message.

 Change Certificate Serial Number TLV to Certificate Serial Number Info TLV.

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* + - * 1.
1. * + 1. MIS\_Push\_Certificate.response
				1. Function

This primitive is generated by an MIS User to acknowledge receipt of a credential from a PoS.

* + - * 1. Semantics of service primitive

MIS\_Push\_Certificate.response (

DestinationIdentifier,

CertificateSerialNumbers,

CertificateStatus)

Parameters:

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| Name | Data Type | Description |
| DestinationIdentifier | MISF\_ID | Specifies the sender of the credential. |
| CertificateSerialNumbers | CERT\_SERIAL\_NUMBER | X.509 certificate subfield -- serial number  |
| CertificateStatus | CERT\_STATUS | Indicates whether a credential has been verified and is now in use by the recipient.One of the following values is used:1: Certificate Valid2: Certificate Revoked3: Certificate Expired4: Verification Failed |

* + - * 1. When generated

An MIS User generates this primitive after receiving and processing of credential.

* + - * 1. Effect on receipt

An MIS\_Push\_Certificate response message is sent back to the sender of the credential to indicate a serial number in the credential and a status of the credential by providing the CertificateStatus. When CertificateStatus is “Certificate Valid,” the validated credential public keys can be utilized for multicast message exchange within their expiration period.

* + - 1. MIS\_Push\_Certificate.confirm
				1. Function

This primitive is generated by an MISF that receives an MIS\_Push\_Certificate response message to indicate the status of the credential inspection.

* + - * 1. Semantics of service primitive

MIS\_Push\_Certificate.confirm (

SourceIdentifier,

CertificateSerialNumbers,

CertificateStatus

)

Parameters:

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| Name | Data Type | Description |
| SourceIdentifier | MISF\_ID | Identifies the remote MISF that invoked MIS\_Revoke\_Certificate.response. |
| CertificateSerialNumbers | CERT\_SERIAL\_NUMBER | X.509 certificate subfield -- serial number |
| CertificateStatus | CERT\_STATUS | Indicates whether a credential has been verified and is now in use by the recipient. |

* + - * 1. When generated

The MISF that receives an MIS\_Push\_Certificate response message generates this primitive to indicate the serial number in the credential and the status of the credential inspection.

* + - * 1. Effect on receipt

If CertificateStatus is “Certificate Valid”, then it indicates to the MIS User that a receiver of the MIS\_Push\_Certificate request message is capable of receiving signed multicast messages.

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8.6.1.33 MIS\_Revoke\_Certificate indication

The corresponding MIS primitive of this message is defined in 7.4.24.1.

This message is used by the MISF to revoke a credential.

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| MIS Header Fields (SID=1, Opcode=3, AID=15) |
| **Source Identifier =** sending MISF ID(Source MISF ID TLV) |
| **Destination Identifier =** receiving MISF ID(Destination MISF ID TLV) |
| (Optional) CertificateSerialNumber(Certificate Serial Number Info TLV) |
| CertificateRevocation(Certificate Revocation Signature TLV) |
| (Optional) IssuerName(Issuer Name TLV) |

8.6.1.34 MIS\_Revoke\_Certificate request

The corresponding MIS primitive of this message is defined in 7.4.24.1.

This message is used by the MISF to revoke a credential.

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| MIS Header Fields (SID=1, Opcode=1, AID=15) |
| **Source Identifier =** sending MISF ID(Source MISF ID TLV) |
| **Destination Identifier =** receiving MISF ID(Destination MISF ID TLV) |
| (Optional) CertificateSerialNumber(Certificate Serial Number Info TLV) |
| CertificateRevocation(Certificate Revocation Signature TLV) |
| (Optional) IssuerName(Issuer Name TLV) |