

Specification Information Note WAP-211_104-WAPCert-20010928-a Version 28-Sep-2001

for

Wireless Application Protocol WAP-211-WAPCert-20010522-a WAP Certificate and CRL Profiles Specification Version 22-May-2000

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1. Scope

This document provides changes and corrections to the following document files:

- WAP-211-WAPCert -20010522-a

2. Notation

In the subsections describing the changes the presented text is to replace the corresponding text in the specification. Text that is not presented is not affected at all. The change descriptions also include editor's notes similar to the one below. The notes are not part of the actual changes and must not be included in the changed text.

Editor's note: Framed notes like these clarify where and how the changes shall be applied.

3. Correction of SCR section

3.1 Change Classification

Class 3 – Clerical correction

3.2 Change Summary

SCR section was not in conformance with WAP-221-CREQ-20010425-a.

3.3 Change Description

Replace all of Annex C with the following text:

Annex C Static Conformance Requirements

C.1 ME Options

C.1.1. General Certificate Options

This table specifies generic certificate-processing requirements for MEs¹. In the table, "M" stands for "Mandatory to implement" and "O" stands for "Optional."

Item	Function	Reference	Status	Requirements
Cert-Gen-C-001	General X.509 Certificate support - Parsing of fields as needed for functionality outlined below	6	М	
Cert-Gen-C-002	General X.509 Certificate support - Able to handle client certificates at least up to 700 bytes long	6	М	
Cert-Gen-C-003	Issuer Name - Recognize the following required RFC 2459 attributes:	6.2, 6.3, 6.4	М	
	countryName, organizationName, organizationalUnitName, commonName, stateOrProvinceName, domainComponent			
Cert-Gen-C-004	Issuer Name - Recognize all recommended RFC 2459 attributes:	6.2, 6.3, 6.4	0	
	localityName, title, surname, givenName, initials, generationQualifier			
Cert-Gen-C-005	Issuer Name - Capable of displaying PrintableString , UTF8String and NumericString values	6.2, 6.3, 6.4	М	
Cert-Gen-C-006	Issuer Name - Recognize the serialNumber attribute	6.2, 6.3, 6.4	М	

¹ This subsection does not apply to ME implementations that never handles (receives, stores, etc.) certificates profiled in accordance with this document

Item	Function	Reference	Status	Requirements
Cert-Gen-C-007	Subject Name - Recognize the following required RFC 2459 attributes:	6.2, 6.3, 6.4	М	
	countryName, organizationName, organizationalUnitName, commonName, stateOrProvinceName, domainComponent			
Cert-Gen-C-008	Subject Name -Recognize all recommended RFC 2459 attributes:	6.2, 6.3, 6.4	0	
	localityName, title, surname, givenName, initials, generationQualifier			
Cert-Gen-C-009	Subject Name - Capable of displaying PrintableString , UTF8String and NumericString values	6.2, 6.3, 6.4	М	
Cert-Gen-C-010	Subject Name - Recognize the serialNumber attribute	6.2, 6.3, 6.4	М	

C.1.2. X.509 Server Certificate options

This table specifies certificate-processing requirements for MEs that support X.509-based server authentication.

Item	Function	Reference	Status	Requirements
Cert-SrvA-C-001	General X.509 Certificate support - Parsing of all fields	6.1	М	
Cert-SrvA-C-002	General X.509 Certificate support - Able to process server certificates at least up to 1000 bytes long (CA certificates 2000 bytes)	6.4.1	М	
Cert-SrvA-C-003	General X.509 Certificate support - Capable of processing certificates with unknown distinguished name attributes (e.g. needed for chain building)	6.4.4 6.4.5	М	
Cert-SrvA-C-004	General X.509 Certificate support - Capable of processing certificates with unknown, non-critical certificate extensions	6.4.7	М	
Cert-SrvA-C-005	Verification - Certificate path processing as defined in [7] (and [8]), but subject to limitations in Section 6.4 and 6.1	6.4, 6.1	М	
Cert-SrvA-C-006	Serial Number - Handling of serial numbers up to 20 bytes long	6.4.2	М	
Cert-SrvA-C-007	Issuer Name - Recognize the following required RFC 2459 attributes: countryName, organizationName, organizationalUnitName, commonName, stateOrProvinceName, domainComponent	6.4.4	М	
Cert-SrvA-C-008	Issuer Name - Recognize all recommended RFC 2459 attributes: localityName, title, surname, givenName, initials,	6.4.4	0	
Cert-SrvA-C-009	generationQualifier Issuer Name - Recognize the serialNumber attribute	644	М	
	issuer runne i recognize the sendirumber attribute	0.7.7	141	

Item	Function	Reference	Status	Requirements	
Cert-SrvA-C-010	Subject Name - Recognize the following required RFC 2459 attributes:	6.4.4, 6.4.5	М		
	countryName, organizationName, organizationalUnitName, commonName, stateOrProvinceName, domainComponent				
Cert-SrvA-C-011	Subject Name - Recognize all recommended RFC 2459 attributes:	6.4.4, 6.4.5	0		
	localityName, title, surname, givenName, initials, generationQualifier				
Cert-SrvA-C-012	Subject Name - Recognize the serialNumber attribute	6.4.4, 6.4.5	М		
Cert-SrvA-C-013	Extensions - Recognize and process extensions as specified in this document: keyUsage .	6.4.7	М		
	subjectAltName, extKeyUsage, authorityKeyIdentifier. For CA certificates, must also process the basicConstraints and subjectKeyIdentifier extension.	6.6.6			
Cert-SrvA-C-014	Extensions - Recognize and process extensions as specified in this document: certificatePolicies, authorityAccessInfo	6.4.7	0		
Cert-SrvA-C-015	Signature Algorithms - Capable of processing	6.4.3	М	Cert-SrvA-C-016	
	algorithms specified in this document			OR Cert-SrvA-C-017	
Cert-SrvA-C-016	Signature Algorithms - Capable of verifying signatures made with RSA keys up to and including 2048 bits	6.4.3	0		
Cert-SrvA-C-017	Signature Algorithms - Capable of verifying signatures made with EC keys up to and including 233 bits	6.4.3	0		
NOTE – Only one of Cert -SrvA-C-016 and Cert -SrvA-C-017 need to be implemented, but see also Annex C.1.3.					

C.1.3. TLS Certificate options

This table specifies further certificate-processing requirements for those MEs that support server-authenticated TLS sessions.

Item	Function	Reference	Status	Requirements
Cert-TLS-C-001	Signature Algorithms - Capable of verifying signatures made with RSA keys up to and including 2048 bits	6.4.3	М	

C.2 Certificate-processing application Option

This section specifies requirements on certificate processing WAP applications not located in the ME, e.g. WTLS servers.

C.2.1 General Certificate Options

This table specifies generic certificate-processing requirements. In the table, "M" stands for "Mandatory to implement" and "O" stands for "Optional.

Item	Function	Reference	Status	Requirements
Cert-Gen-S-001	General X.509 Certificate support - Parsing of all fields	6	М	
Cert-Gen-S-002	General X.509 Certificate support - Able to handle certificates at least up to 2000 bytes long	6	М	
Cert-Gen-S-003	General X.509 Certificate support - Capable of processing certificates with unknown distinguished name attributes (e.g. needed for chain building)	6	М	
Cert-Gen-S-004	Verification - Certificate path processing as defined in [7] (and [8]).	6.1	М	
Cert-Gen-S-005	Issuer Name - Recognize the following required RFC 2459 attributes:	6.2, 6.3	М	
	countryName, organizationName, organizationalUnitName, commonName, stateOrProvinceName, domainComponent			
Cert-Gen-S-006	Issuer Name - Recognize all recommended RFC 2459 attributes:	6.2, 6.3	0	
	localityName, title, surname, givenName, initials, generationQualifier			
Cert-Gen-S-007	Issuer Name - Recognize the serialNumber attribute	6.2, 6.3	М	
Cert-Gen-S-008	Subject Name - Recognize the following required RFC 2459 attributes:	6.2, 6.3	М	
	countryName, organizationName, organizationalUnitName, commonName, stateOrProvinceName, domainComponent			
Cert-Gen-S-009	Subject Name - Recognize all recommended RFC 2459 attributes:	6.2, 6.3	0	
	localityName, title, surname, givenName, initials, generationQualifier			
Cert-Gen-S-010	Subject Name - Recognize the serialNumber attribute	6.2, 6.3	М	
Cert-Gen-S-011	Extensions - Recognize and process extensions as specified in this document	6	М	
Cert-Gen-S-012	Extensions - Recognize and process the domainInformation extension	10	0	
Cert-Gen-S-013	Signature Algorithms - Capable of processing certificates signed with at least one of the algorithms specified in this document	9	М	Cert-Gen-S-014 OR Cert-Gen-S-015
Cert-Gen-S-014	Signature Algorithms - Capable of verifying signatures made with RSA keys up to and including 2048 bits	6.6.5	0	

Item	Function	Reference	Status	Requirements	
Cert-Gen-S-015	Signature Algorithms - Capable of verifying signatures made with EC keys up to and including 233 bits	6.6.5	0		
Cert-Gen-S-016	Chain Processing - Process certificate chains of at least 3	6.1	М		
NOTE – Only one of Cert -Gen-S-014 and Cert -Gen-S-015 need to be implemented.					