

Specification Information Note WAP-261_102-WTLS-20011027-a

Version 27-Oct-2001

for

Wireless Application Protocol WAP-261-WTLS-20010406-a Wireless Transport Layer Security Version 06-April-2001

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1. Scope

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

WAP-261-WTLS-20010406-a

It includes changes from the following change requests:

- Change Request Ericsson-Bangkok-2001-CR-No2 2001-09-27

2. Notation

In the subsections describing the changes new text is <u>underlined</u>. Removed text has <u>strikethrough</u> marks. The presented text is copied from the specification. Text that is not presented is not affected at all. The change descriptions may 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 only clarify where and how the changes shall be applied.

3. Correction of usage of key_identifier in the certificate request

3.1 Change Classification

Class 2 - Bug Fix

3.2 Change Summary

The server can optionally request a certificate from the client, and in this message the server can tell the client which certificate that shall be sent back to the server. This is done by using the different identifier types (0=no identity supplied, 1=textual name, 2=binary identity, 254=SHA-1 hash of public key, 255=X.509 distinguished name). The proposal is to reduce the set to the following identifier types:

- 0, no identity supplied
- 254, SHA-1 hash of public key. Mandatory for WTLS.
- 255, X.509 distinguished name. Mandatory for TLS (already the only option).

Indexing on the WIM is the main reason for the change, i.e. the identifier sent in server hello should be the identifier used as an index on the WIM.

If this approach is not taken the client will have to parse the certificates stored on the WIM in order to make the match, this will of course add complexity and make the operation more time consuming. For WTLS certificates parsing is not an issue since this is mandatory functionality for clients anyway. Without the suggested change a serious problem could arise when the client must look for a client certificate not using the identifier on the WIM. This will require the client to parse X.509 certificates. It seems to be overkill to include a X.509 parser just to search for certificates.

3.3 Change Description

Editor's note: On pages 69-70

10.5.4 Certificate Request

Item	Description
trusted_authorities	A list of the names and types identifiers of acceptable certificate authorities. These names identifiers may specify a desired id for a root CA or for a subordinate CA; thus, this message can be used both to describe known roots and a desired authorisation space. The identifier type shall be limited to the following values: O, no identity supplied
	• 254, SHA-1 hash of public key. If no authorities are sent, client may send any certificate, or if the client supplied a key identifier in ClientHello.client_key_ids, the client should use the corresponding key for authentication but send no certificates. This corresponds to the case when the client certificate is known to the server by the key identifier. Fetching client certificate by the key identifier (public key hash) may be possible e.g., when client certificates are contained in a local cache, or if certificates contain the key identifier (as subject key identifier) and search on this field is enabled. The server may request the client to send any certificate for a particular key exchange suite by sending this message with a KeyExchangeId that has Identifier_identifier_type null.