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# Web Services Security X.509 Certificate Token Profile 1.1

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### Technical Committee:

Web Service Security (WSS)

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### Abstract:

This document describes how to use X.509 Certificates with the Web Services Security: SOAP Message Security specification [WS-Security] specification.

### Status:

This is an **OASIS Draft** listing errata for the **OASIS Standard** produced by the Web Services Security Technical Committee. The standard was approved by the OASIS membership on 1 February 2006..

Technical Committee members should send comments on this specification to the technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at [www.oasisopen.org/committees/wss](http://www.oasisopen.org/committees/wss).

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71 This section is non-normative.

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86 **1 Issues Addressed**

87 The following issues related to the Web Services Security X.509 Certificate Token Profile 1.1  
88 listed in the Web Services Committee Issues List [WSS-Issues] have been addressed in this  
89 document:

Issue	Description
457	Remove #x509v1 from table
458	Fix typographical Errors
460	Change #ThumbPrintSHA1 to #ThumbprintSHA1

---

## 90 2 Typographical/Editorial Errors

### 91 2.1 Section 3.3.2 Reference to a Binary Security Token

92 Changed lines 348 and 349 from

```
93 <ds:Reference URI="#body"></ds:Reference>  
94 <ds:Reference URI="#binarytoken"></ds:Reference>
```

95 to

```
96 <ds:Reference URI="#body">...</ds:Reference>  
97 <ds:Reference URI="#binarytoken">...</ds:Reference>
```

### 98 2.2 Section 3.3.3 Reference to an Issuer and Serial Number

99 Changed lines 384 and 385 from

```
100 <ds:Reference URI="#body"></ds:Reference>  
101 <ds:Reference URI="#keyinfo"></ds:Reference>
```

102 to

```
103 <ds:Reference URI="#body">...</ds:Reference>  
104 <ds:Reference URI="#keyinfo">...</ds:Reference>
```

### 105 2.3 Section 3.4 Encryption

106 Changed line 430 from

```
107 xenc:EncryptionMethod Algorithm="..."/>
```

108 to

```
109 xenc:EncryptionMethod Algorithm="..."/>
```

110

111 Changed line 480 from

```
112 soap-message-security-1.1#ThumbPrintSHA1" >LKiQ/CmFrJDJqCLFcyjhlsmZ/+0=
```

113 to

```
114 soap-message-security-1.1#ThumbprintSHA1" >LKiQ/CmFrJDJqCLFcyjhlsmZ/+0=
```

115

116 Changed line 494 from

```
117 <xenc:EncryptedData Id="encrypted" Type="...">
```

118 to

```
119 <xenc:EncryptedData Id="encrypted" Type="...">
```

120

---

121 **3 Normative Errors**

122 **3.1 Section 2.2 Namespaces**

123 Deleted following row from table at line 158

#X509PKIPathv1	<a href="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509PKIPathv1">http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509PKIPathv1</a>
----------------	---

124 **3.2 Section 3.1 Token Types**

125 Deleted following row from table at line 177

Single certificate	#x509v1	An X.509 v1 certificate capable of signature-verification at a minimum.
--------------------	---------	---

126

127 **3.3 Section 3.2 Token References**

128 Changed line 204 from

129 X.509 SubjectKeyIdentifier reference. A subject key identifier may only be used to  
130 to

131 X.509 SubjectKeyIdentifier reference. A subject key identifier MAY only be used to

---

## 4 References

132

133 The following are normative references

- 134     **[Glossary]**        Informational RFC 2828, *Internet Security Glossary*, May 2000.  
135                            <http://www.ietf.org/rfc/rfc2828.txt>
- 136     **[KEYWORDS]**        S. Bradner, *Key words for use in RFCs to Indicate Requirement Levels*,  
137                            RFC 2119, Harvard University, March 1997,  
138                            <http://www.ietf.org/rfc/rfc2119.txt>
- 139     **[RFC2246]**         T. Dierks, C. Allen., *The TLS Protocol Version, 1.0*. IETF RFC 2246  
140                            January 1999. <http://www.ietf.org/rfc/rfc2246.txt>
- 141     **[SOAP11]**          W3C Note, "SOAP: Simple Object Access Protocol 1.1," 08 May 2000.
- 142     **[SOAP12]**          W3C Recommendation, "SOAP Version 1.2 Part 1: Messaging  
143                            Framework", 23 June 2003.
- 144     **[URI]**             T. Berners-Lee, R. Fielding, L. Masinter, "Uniform Resource Identifiers  
145                            (URI): Generic Syntax," RFC 3986, MIT/LCS, Day Software, Adobe  
146                            Systems, January 2005.
- 147     **[WS-Security]**     A. Nadalin et al., *Web Services Security: SOAP Message Security 1.1*  
148                            (WS-Security 2004), OASIS Standard, [http://docs.oasis-](http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.1.pdf)  
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150                            1.1.pdf.
- 151     **[PKCS7]**            *PKCS #7: Cryptographic Message Syntax Standard* RSA Laboratories,  
152                            November 1, 1993. [http://www.rsasecurity.com/rsalabs/pkcs/pkcs-](http://www.rsasecurity.com/rsalabs/pkcs/pkcs-7/index.html)  
153                            7/index.html
- 154     **[PKIPATH]**         [http://www.itu.int/rec/recommendation.asp?type=items&lang=e&parent=T-](http://www.itu.int/rec/recommendation.asp?type=items&lang=e&parent=T-REC-X.509-200110-S!Cor1)  
155                            REC-X.509-200110-S!Cor1
- 156     **[X509]**            ITU-T Recommendation X.509 (1997 E): *Information Technology - Open*  
157                            *Systems Interconnection - The Directory: Authentication Framework*,  
158                            June 1997.

159

160 The following are non-normative references

- 161     **[XML-ns]**          T. Bray, D. Hollander, A. Layman. *Namespaces in XML. W3C*  
162                            *Recommendation*. January 1999. [http://www.w3.org/TR/1999/REC-xml-](http://www.w3.org/TR/1999/REC-xml-names-19990114)  
163                            names-19990114
- 164     **[XML Encrypt]**     W3C Recommendation, "XML Encryption Syntax and Processing," 10  
165                            December 2002
- 166     **[XML Signature]**   D. Eastlake, J. R., D. Solo, M. Bartel, J. Boyer , B. Fox , E. Simon. *XML-*  
167                            *Signature Syntax and Processing*, W3C Recommendation, 12 February  
168                            2002.

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## Appendix A: Acknowledgments

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## Appendix B: Revision History

Rev	Date	By Whom	What
01	08-25-2006	Anthony Nadalin	Issue 457, 458, 460

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