



Web Services Security: UsernameToken Profile 1.0

Errata 1.0

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Editors:

Anthony	Nadalin	IBM
Phil	Griffin	Individual
Chris	Kaler	Microsoft
Phillip	Hallam-Baker	VeriSign
Ronald	Monzillo	Sun

Contributors:

Gene	Thurston	AmberPoint
Frank	Siebenlist	Argonne National Lab
Merlin	Hughes	Baltimore Technologies
Irving	Reid	Baltimore Technologies
Peter	Dapkus	BEA
Hal	Lockhart	BEA
Symon	Chang	CommerceOne
Srinivas	Davanum	Computer Associates
Thomas	DeMartini	ContentGuard
Guillermo	Lao	ContentGuard
TJ	Pannu	ContentGuard
Shawn	Sharp	Cyclone Commerce
Ganesh	Vaideeswaran	Documentum
Sam	Wei	Documentum
John	Hughes	Entegrity
Tim	Moses	Entrust
Toshihiro	Nishimura	Fujitsu

Tom	Rutt	Fujitsu
Yutaka	Kudo	Hitachi
Jason	Rouault	HP
Paula	Austel	IBM
Bob	Blakley	IBM
Joel	Farrell	IBM
Satoshi	Hada	IBM
Maryann	Hondo	IBM
Michael	McIntosh	IBM
Hiroshi	Maruyama	IBM
David	Melgar	IBM
Anthony	Nadalin	IBM
Nataraj	Nagaratnam	IBM
Wayne	Vicknair	IBM
Kelvin	Lawrence	IBM (co-Chair)
Don	Flinn	Individual
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Paul	Cotton	Microsoft
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Vijay	Gajjala	Microsoft
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Scott	Konersmann	Microsoft
Chris	Kurt	Microsoft
Brian	LaMacchia	Microsoft
Paul	Leach	Microsoft
John	Manferdelli	Microsoft
John	Shewchuk	Microsoft
Dan	Simon	Microsoft
Hervey	Wilson	Microsoft
Chris	Kaler	Microsoft (co-Chair)
Prateek	Mishra	Netegrity
Frederick	Hirsch	Nokia
Senthil	Sengodan	Nokia
Lloyd	Burch	Novell
Ed	Reed	Novell
Charles	Knouse	Oblix
Steve	Anderson	OpenNetwork (Sec)
Vipin	Samar	Oracle
Jerry	Schwarz	Oracle
Eric	Gravengaard	Reactivity
Stuart	King	Reed Elsevier
Andrew	Nash	RSA Security
Rob	Philpott	RSA Security
Peter	Rostin	RSA Security
Martijn	de Boer	SAP
Blake	Dournaee	Sarvega
Pete	Wenzel	SeeBeyond
Jonathan	Tourzan	Sony
Yassir	Elley	Sun Microsystems

Jeff	Hodges	Sun Microsystems
Ronald	Monzillo	Sun Microsystems
Jan	Alexander	Systinet
Michael	Nguyen	The IDA of Singapore
Don	Adams	TIBCO
John	Weiland	US Navy
Phillip	Hallam-Baker	VeriSign
Mark	Hays	Verisign
Hemma	Prafullchandra	VeriSign

15

16 **Abstract:**

17 This document contains a list of errata against WSS Username Token Profile 1.0 that
 18 have been approved by the WSS Technical Committee.

19 **Status:**

20 This version of the errata is a working draft of the committee. As such, it may change
 21 prior to incorporation into a future OASIS Standard. Please send comments to the
 22 editors. If you are on the wss@lists.oasis-open.org list for committee members, send
 23 comments there. If you are not on that list, subscribe to the wss-comment@lists.oasis-
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45

46 1 Issues Addressed

47 The following issues have been addressed in this document:

48

ISSUE	DESCRIPTION
259	Editorial comments on Username Token profile - post v1 review period.
461	Remove Key Derivation Section

49 2 Typographical Errors

50

51 None

3 Normative Errors

52

3.1 Section 2.2 Namespaces

53

54

Add the following after line 81

55

URI fragments defined in WSS: Username Token Profile 1.0 are relative to a base URI of

56

`http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-`

57

`token-profile-1.0`

58

3.2 Section 3.1 Usernames and Passwords

59

Delete the following line (89):

60

Passwords of type `wsse:PasswordText` and `wsse:PasswordDigest` are not limited to

61

and replace it with:

62

Passwords of type `PasswordText` and `PasswordDigest` are not limited to

63

64

Delete the following lines (91-93):

65

Having a type of `wsse:PasswordText`, `wsse:PasswordDigest` merely implies that the information held in the password is "in the clear"...

66

and replace it with:

67

68

Having a type of `PasswordText` merely implies that the information held in the password is "in the clear" ...

69

70

71

Delete the following line (98):

72

Passwords of type `wsse:PasswordText` and `wsse:PasswordDigest` are defined as being

73

and replace it with:

74

Passwords of type `PasswordDigest` are defined as being

75

76

Delete the following line (101-102):

77

the digest offers no real additional security over use of `wsse:PasswordText` and

78

`wsse:PasswordDigest`.

79

and replace it with:

80

the digest offers no real additional security over use of `PasswordText`.

81

82

Delete the following line (132):

83

Note that `wsse:PasswordDigest` can only be used if the plain text password (or password

84

and replace it with:

85

86

Note that `PasswordDigest` can only be used if the plain text password (or password

87

88

Delete the following line(235):

89

"ValueType attribute is not required. If specified, the value of `<wsse:UsernameToken>`

90

MUST"

91

and replace it with:

92

"ValueType attribute is not required. If specified, the value of `#UsernameToken` MUST"

93

3.3 Section 3.2 Token Reference

94

Delete the following line(235):

95

`ValueType` attribute is not required. If specified, the value of `<wsse:UsernameToken>`

96

MUST

97

and replace it with:

98 ValueType attribute is not required. If specified, the value of #UsernameToken MUST
99
100 .

101 **3.4 Section 4 Security Considerations**

102 Add after line 282:

103 The security of keys derived from passwords is limited by the attacks available against
104 passwords themselves, such as guessing and brute force. Because of the limited size of
105 password that human beings can remember and limited number of octet values
106 represented by keys that can easily be typed, a typical password represents the
107 equivalent of an entropy source of a maximum of only about 50 bits. For this reason a
108 maximum key size of only 160 bits is supported. Longer keys would simply increase
109 processing without adding to security.

110 The key derivation algorithm specified here is based on one described in RFC 2898. It is
111 referred to in that document as PBKDF1. It is used instead of PBKDF2, because it is
112 simpler and keys longer than 160 bits are not required as discussed previously.

113 The purpose of the salt is to prevent the bulk pre-computation of key values to be tested
114 against distinct passwords. The Salt value is defined so that MAC and encryption keys
115 are guaranteed to have distinct values even when derived from the same password. This
116 prevents certain cryptanalytic attacks.

117 The iteration count is intended to increase the work factor of a guessing or brute force
118 attack, at a minor cost to normal key derivation. An iteration count of at least 1000 (the
119 default) SHOULD always be used.

120 **4 Non-Normative Errors**

121 None

122
123
124

5 Clarifications

The following table lists the full URI for each URI fragment referred to in the specification.

URI Fragment	Full URI
#PasswordDigest	http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#PasswordDigest
#PasswordText	http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#PasswordText
#UsernameToken	http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#UsernameToken

125

126

Appendix A: Revision History

Rev	Date	What
1	06/25/04	First Draft of Errata
2	07/06/04	Updated per comments on list

127

128 This section is non-normative.

Appendix B: Notices

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159

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