



# **CSP Data Types**

## **Version 1.1**

**WV Internal Tracking Number: WV-025**

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## Contents

1.	Revision History .....	1
2.	References.....	2
3.	Basic Types .....	3
3.1	Character .....	3
3.2	Integer.....	3
3.3	Boolean.....	3
3.4	String.....	3
3.5	Date and time.....	3
3.6	Binary data.....	3
3.7	Derived types .....	3
3.7.1	Enumerated.....	3
3.7.2	Structure.....	4
4.	Data Type Assignments for XML ELEMENTS.....	5
4.1	XML Element Assignment for CSP Information Elements.....	5
4.2	Data Types for XML Terminal Elements .....	7

## 1. REVISION HISTORY

Date	Issue	Description	Author
February 13 <sup>th</sup>	TBD	Initial release	WV TechComm
July 31, 2002	V1.1	Version 1.1	WV TechComm

## 2. REFERENCES

- [E.164] ITU-T Recommendation E.164 (05/97) The international public telecommunication numbering plan
- [IANA] Character sets registered at IANA (MIBenum assignments)
- [ISO639-2] ISO 639-2: Codes for the Representation of Names of Languages, 1998.
- [ISO8601] ISO 8601 international standard (second edition).  
Data elements and interchange formats – Information exchange – Representation of dates and times
- [RFC2045] “Multipurpose Internet Mail Extensions (MIME) Part one: Format of Internet Message Bodies”. Section 6.8 “Base64 Content-Transfer-Encoding”.
- [RFC2046] Borenstein N., and N. Freed, "MIME (Multipurpose Internet Mail Extensions) Part Two: Media Types", November 1996.
- [RFC2396] Uniform Resource Identifiers (URI): Generic Syntax
- [WV-CSP] Wireless Village – Client-Server Protocol, Session And Transactions specification
- [WV-CSP-SCR] Wireless Village – Client-Server protocol, Static Conformance Requirements.
- [WV-PA] Wireless Village – Presence Attributes specification.

### 3. BASIC TYPES

#### 3.1. CHARACTER

A character is single UTF-8 encoded character.

#### 3.2. INTEGER

An integer is a number from 0-4294967295 expressed in decimal format.

#### 3.3. BOOLEAN

A Boolean value indicates either true or false.

In XML: it has been encoded to a single character, the following values are defined:

- T – indicating yes or true (UTF-8 encoded character)
- F – indicating no or false (UTF-8 encoded character)

These values are case insensitive.

#### 3.4. STRING

A string of UTF-8 encoded characters.

#### 3.5. DATE AND TIME

Expressed as a string, the format follows the [ISO8601] specification. The date and time format used shall be the complete date and time using the basic format. There shall be no time-zone indications, but the time may indicate if the time is Coordinated Universal Time (UTC) or local time. Examples are:

20011019T125031

for local time, and

20011019T095031Z

for UTC time.

#### 3.6. BINARY DATA

The binary data must be encoded according to BASE64 encoding [RFC2045].

#### 3.7. DERIVED TYPES

##### 3.7.1 Enumerated

The enumerated type is a type derived from the basic types that limit the values to certain, defined values. Examples of this are enumerated string, enumerated character and enumerated integer.

In the case of enumerated string and enumerated characters, the values shall be case insensitive.

### **3.7.2 Structure**

The structure type allows the definition of an information element as a structure of basic types. The structure itself is defined in an XML DTD Element.

## 4. DATA TYPE ASSIGNMENTS FOR XML ELEMENTS

### 4.1. XML ELEMENT ASSIGNMENT FOR CSP INFORMATION ELEMENTS

Information Element	XML Element
Acceptance	Acceptance
Accepted-Content-Length	ContentSize
Add-Nick-List	AddNickList
Add-Users-List	AddList
Agreed-Capabilities	CapabilityList
All-Functions	AllFunctions
All-Functions-Request	AllFunctionsRequest
Attribute-Association-List	AttributeList+
Blocked-Entity-List	BlockList(EntityList)
Blocked-List-Inuse	BlockList(InUse)
Block-Entity-List	BlockList(EntityList)
ClientCapability-Request	CapabilityRequest
Client-ID	ClientID
Code	Code
Completion-Flag	CompletionFlag
Contact-List-ID	ContactList
Contact-List-ID-List	ContactList+
Contact-List-Props	ContactListProperties
Content	ContentData
Session-Cookie	Not in DTD yet
Default-CList-ID	DefaultContactList
Default-List	DefaultList
Default-Attribute-List	DefaultAttributeList
Delivery-Method	DeliveryMethod
Delivery-Report-Request	DeliveryReport
Delivery-Time	DeliveryTime
Description-Text	Description
Digest-Schema	DigestSchema
Digest-Bytes	DigestBytes
Granted-Entity-List	GrantList(EntityList)
Granted-List-Inuse	GrantList(InUse)
Grant-Entity-List	GrantList(EntityList)
Group-ID	GroupID
Group-Props	GroupProperties
Invite-Acceptance	Acceptance
Invite-Content	URLList
Invite-Group	GroupID
Invite-ID	InviteID
Invite-Presence	AttributeList
Invite-Reason	InviteNote
Invite-Response	InviteNote
Invite-Type	InviteType
Join-Group	JoinGroup
Joined-Request	JoinedRequest
Joined-Users-List	Joined



Keep-Alive-Time	KeepAliveTime
Left-Users-List	Left
Logo	Logo
Message-Count	MessageCount
Message-ID	MessageID
Message-ID-List	MessageID+
Message-Info	MessageInfo
Message-Info-List	MessageInfo+
Message-URI	MessageURI
Name	Name
Nonce	Nonce
Not-Available-Functions	Functions
Own-Props	OwnProperties
Own-Screen-Name	ScreenName
Password-String	Password
Presence-Attribute-List	PresenceSubList
Presence-Value-List	Presence
Recalled-Content	URLList
Recall-Reason	InviteNote
Recipients	Recipient
Remove-Nick-List	RemoveNickList
Remove-Users-List	RemoveList
Requested-Capabilities	CapabilityList
Requested-Functions	Functions
Result	Result
Screen-Name	ScreenName
Screen-Names	ScreenName+
Search-Criteria	SearchCriteria
Search-Findings	SearchFindings
Search-ID	SearchID
Search-Index	SearchIndex
Search-Limit	SearchLimit
Search-Pair-List	SearchPairList
Search-Results	SearchResult
Sender	Sender
Session-Cookie	SessionCookie
Session-ID	SessionID
Subscribe-Notif	SubscribeNotification
Subscribe-Type	SubscribeType
Subscription-State	Value
Supported-Digest-Schema	Digest-Schema
Text	Description
Time-To-Live	TimeToLive
Transaction-ID	TransactionID
Unblock-Entity-List	BlockList(RemoveList)
Ungrant-Entity-List	GrantList(RemoveList)
Update-Value-List	PresenceValueList
URL	URL
User-ID	UserID
User-ID-List	UserList
User-List	Users

User-List-Adm	Admin
User-List-Mod	Mod
User-Nick-List	NickList
Validity	Validity
Welcome-Text	WelcomeNote

## 4.2. DATA TYPES FOR XML TERMINAL ELEMENTS

<b>XML PCDATA</b>	<b>Acceptance</b>
Data type	Boolean
Format	Defined in section 3.3.
Description	Indicates acceptance.
Range	Defined in section 3.3.

**Table 1. Acceptance**

<b>XML PCDATA</b>	<b>AcceptedCharSet</b>
Data type	Integert
Format	MIBenum number as defined in [IANA].
Description	Character set that the client supports.
Range	Any of the valid character sets.

**Table 2. AcceptedCharSet**

<b>XML PCDATA</b>	<b>AcceptedContentLength</b>
Data type	Integer
Format	Defined in section 3.2.
Description	The character (byte) count of the content inside a message.
Range	Defined in section 3.2.

**Table 3. AcceptedContentLength**

<b>XML PCDATA</b>	<b>AcceptedContentType</b>
Data type	String
Format	MIME type as defined in [RFC2045] and [RFC2046].
Description	MIME type that the client supports.
Range	All MIME-types

**Table 4. AcceptedContentType**

<b>XML PCDATA</b>	<b>AcceptedTransferEncoding</b>
Data type	String
Format	Text string
Description	Transfer encoding scheme that the client supports. Currently there is BASE64 only.
Range	BASE64

**Table 5. AcceptedTransferEncoding**

<b>XML PCDATA</b>	<b>AllFunctionsRequest</b>
Data type	Boolean
Format	Defined in section 3.3.
Description	Indicates if the list of all functions is requested.
Range	Defined in section 3.3.

**Table 6. AllFunctionsRequest**

<b>XML PCDATA</b>	<b>AnyContent</b>
Data type	Boolean
Format	Defined in section 3.3.
Description	Indicates if the client accepts all types of contents.
Range	Defined in section 3.3.

**Table 7. AnyContent**

<b>XML PCDATA</b>	<b>CapabilityRequest</b>
Data type	Boolean
Format	Defined in section 3.3.
Description	Indicates if client capability negotiation is needed.
Range	Defined in section 3.3.

**Table 8. CapabilityRequest**

<b>XML PCDATA</b>	<b>ClientType</b>
Data type	Enumerated string
Format	Defined in [WV-PA], Table 7.
Description	The type of the client.
Range	Defined in [WV-PA], Table 7.

**Table 9. ClientType**

<b>XML PCDATA</b>	<b>Code</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Status code.
Range	Defined in [WV-CSP].

**Table 10. Code**

<b>XML PCDATA</b>	<b>CompletionFlag</b>
Data type	Boolean
Format	Defined in section 3.3.
Description	Indicates whether if the client can expect new results. 'F' if server may provide new results (still searching), 'T' if new results will not be provided.
Range	Defined in section 3.3.

**Table 11. CompletionFlag**

<b>XML PCDATA</b>	<b>ContactList</b>
Data type	String
Format	Defined in [WV-CSP]. The contact-list-ID is not case sensitive.
Description	Unique identifier of a user's contact list.
Range	Max 100 characters.

**Table 12. ContactList**

<b>XML PCDATA</b>	<b>ContentData</b>
Data type	String or Binary data.
Format	See Table 14. ContentEncoding.
Description	The actual content.
Range	

**Table 13. ContentData**

<b>XML PCDATA</b>	<b>ContentEncoding</b>
Data type	String
Format	Text string
Description	Indicates the transfer encoding used on the content.
Range	None   BASE64

**Table 14. ContentEncoding**

<b>XML PCDATA</b>	<b>ContentSize</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Indicates the size of the content. If the content is binary data, it indicates the size after the BASE64 encoding.
Range	Defined in section 3.2.

**Table 15. ContentSize**

<b>XML PCDATA</b>	<b>ContentType</b>
Data type	String
Format	MIME-Type as defined in [RFC2045] and [RFC2046].
Description	Indicates the MIME-type of the content.
Range	All MIME-types

**Table 16. ContentType**

<b>XML PCDATA</b>	<b>DateTime</b>
Data type	Date and Time
Format	Defined in section 3.5.
Description	Date and time.
Range	Defined in section 3.5.

**Table 17. DateTime**

<b>XML PCDATA</b>	<b>DefaultContactList</b>
Data type	String
Format	See Table 12. ContactList.
Description	Identifies the default contact list.
Range	See Table 12. ContactList.

**Table 18. DefaultContactList**

<b>XML PCDATA</b>	<b>DefaultLanguage</b>
Data type	Enumerated string
Format	Three-letter language code as specified in [ISO639-2].
Description	The current language setting in the client. The language code is specifying that the client prefers to receive text information in the indicated language from the server. The information is optional – it is used to override the user profile/presence info language preference.
Range	Any of the valid three-letter language codes.

**Table 19. DefaultLanguage**

<b>XML PCDATA</b>	<b>DefaultList</b>
Data type	Boolean
Format	Defined in section 3.3.
Description	Indicates if the default attribute list should be used in transaction.
Range	Defined in section 3.3.

**Table 20. DefaultList**

<b>XML PCDATA</b>	<b>DeliveryMethod</b>
Data type	Enumerated character
Format	Text character
Description	The delivery method setting. <b>Notify/Get</b> or <b>Push</b> .
Range	N   P

**Table 21. DeliveryMethod**

<b>XML PCDATA</b>	<b>DeliveryReport</b>
Data type	Boolean
Format	Defined in section 3.3.
Description	Indicates if delivery method is requested or not.
Range	Defined in section 3.3.

**Table 22. DeliveryReport**

<b>XML PCDATA</b>	<b>DeliveryTime</b>
Data type	DateTime
Format	Defined in section 3.5
Description	The date and time of delivery of a message
Range	Defined in section 3.5

**Table 23. DeliveryTime**

<b>XML PCDATA</b>	<b>Description</b>
Data type	String
Format	Text string
Description	Short descriptive text.
Range	Max 200 characters

**Table 24. Description**

<b>XML PCDATA</b>	<b>DigestBytes</b>
Data type	String
Format	BASE64 encoded
Description	Digest bytes to use with DigestSchema.
Range	Max 200 characters

**Table 25. DigestBytes**

<b>XML PCDATA</b>	<b>DigestSchema</b>
Data type	Enumerated string
Format	Text string
Description	Digest schema used in hash.
Range	PWD   SHA   MD4   MD5   MD6

**Table26. DigestSchema**

<b>XML PCDATA</b>	<b>GroupID</b>
Data type	String
Format	Defined in [WV-CSP]. The group-ID is not case sensitive.
Description	Unique identifier of a group.
Range	Max 50 characters

**Table 27. GroupID**

<b>XML PCDATA</b>	<b>InitialDeliveryMethod</b>
Data type	Refer to Table 21. DeliveryMethod.
Format	Refer to Table 21. DeliveryMethod.
Description	Refer to Table 21. DeliveryMethod.
Range	Refer to Table 21. DeliveryMethod.

**Table 28. InitialDeliveryMethod**

<b>XML PCDATA</b>	<b>InUse</b>
Data type	Boolean
Format	Defined in section 3.3.
Description	Indicates if the requested functionality is in use or not.
Range	Defined in section 3.3.

**Table 29. InUse**

<b>XML PCDATA</b>	<b>InviteID</b>
Data type	String
Format	Text string. The invite-ID is case sensitive.
Description	Identifies an invitation so that it may be cancelled later on.
Range	Unique in the scope of the server domain. Max 100 character.

**Table 30. InviteID**

<b>XML PCDATA</b>	<b>InviteNote</b>
Data type	String
Format	Text string
Description	Short descriptive text for invitation.
Range	Max 400 characters

**Table31. InviteNote**

<b>XML PCDATA</b>	<b>InviteType</b>
Data type	Enumerated string
Format	Text string
Description	Indicates the type of the invitation.
Range	GR   IM   PR   SC

**Table 32. InviteType**

<b>XML PCDATA</b>	<b>JoinGroup</b>
Data type	Boolean
Format	Defined in section 3.3.
Description	Indicates that the newly created group is joined (or not) at creation time.
Range	Defined in section 3.3

**Table 33. JoinGroup**

<b>XML PCDATA</b>	<b>JoinedRequest</b>
Data type	Boolean
Format	Defined in section 3.3.
Description	Indicates if the list of currently joined group members is requested.
Range	Defined in section 3.3.

**Table 34. JoinedRequest**

<b>XML PCDATA</b>	<b>KeepAliveTime</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Indicates for how many seconds should the session be kept alive. (And how often should the KeepAlive transaction occur if no other transactions are done in the meantime.)
Range	Defined in section 3.2.

**Table35. KeepAliveTime**

<b>XML PCDATA</b>	<b>MessageCount</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Indicates the number of messages.
Range	Defined in section 3.2.

**Table36. MessageCount**

<b>XML PCDATA</b>	<b>MessageID</b>
Data type	String
Format	Text string. The message-ID is case sensitive.
Description	Identifies an instant message.
Range	Max 50 characters

**Table 37. MessageID**

<b>XML PCDATA</b>	<b>MessageURI</b>
Data type	String
Format	URI
Description	See [RFC2396].
Range	Max 100 characters

**Table 38. MessageURI**

<b>XML PCDATA</b>	<b>MSISDN</b>
Data type	String
Format	International mobile number
Description	Defined in [E.164].
Range	As defined in [E.164].

**Table 39. MSISDN**

<b>XML PCDATA</b>	<b>MultiTrans</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Indicates the maximum number of primitives that the client can handle within the same transport message, as well as the maximum number of open transactions from both client and server side at any given time.
Range	The value must be higher than zero.

**Table 40. MultiTrans**

<b>XML PCDATA</b>	<b>Name</b>
Data type	String
Format	Text string. Case sensitive.
Description	Name of an attribute.
Range	Max 50 characters

**Table 41. Name**

<b>XML PCDATA</b>	<b>Nonce</b>
Data type	String
Format	Text string. Case sensitive.
Description	Random string for password digest.
Range	Max 200 characters

**Table 42. Nonce**

<b>XML PCDATA</b>	<b>ParserSize</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Indicates the maximum character (byte) count of XML message size that the parser can handle.
Range	Defined in section 3.2.

**Table 43. ParserSize**



<b>XML PCDATA</b>	<b>Password</b>
Data type	String
Format	Text string
Description	The password corresponding to the password digest.
Range	Max 50 characters

**Table 44. Password**

<b>XML PCDATA</b>	<b>Poll</b>
Data type	Boolean
Format	Defined in section 3.3.
Description	Indicates whether if the server has something to send or not.
Range	Defined in section 3.3.

**Table 45. Poll**

<b>XML PCDATA</b>	<b>PresenceSubList</b>
Data type	String
Format	As defined in the referred namespace.
Description	Presence attribute list with or without values. This element is used to give reference to the namespace (DTD) to be used under this specific tag.
Range	The namespace attribute points to a valid Wireless Village presence namespace.

**Table 46. PresenceSubList**

<b>XML PCDATA</b>	<b>ResponseNote</b>
Data type	String
Format	Text string
Description	Short descriptive text for invitation response.
Range	Max 400 characters

**Table 47 ResponseNote**

<b>XML PCDATA</b>	<b>SearchElement</b>
Data type	Enumerated string
Format	Text string
Description	Indicates what should be searched for <i>SearchString</i> .
Range	USER_ID   USER_FIRST_NAME   USER_LAST_NAME   USER_EMAIL_ADDRESS   USER_ALIAS   USER_ONLINE_STATUS   USER_MOBILE_NUMBER   GROUP_ID   GROUP_NAME   GROUP_TOPIC   GROUP_USER_ID_JOINED   GROUP_USER_ID_OWER

**Table 48. SearchElement**

<b>XML PCDATA</b>	<b>SearchFindings</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Indicates the number of matches found in a search request.
Range	Defined in section 3.2.

**Table 49. SearchFindings**

<b>XML PCDATA</b>	<b>SearchID</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Identifies a search request, so that it may be continued later on.
Range	Defined in section 3.2.

**Table 50. SearchID**

<b>XML PCDATA</b>	<b>SearchIndex</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Indicates from which point should the search continue.
Range	Defined in section 3.2.

**Table 51. SearchIndex**

<b>XML PCDATA</b>	<b>SearchLimit</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Indicates the maximum number of result to be retrieved at a time.
Range	Defined in section 3.2.

**Table 52. SearchLimit**

<b>XML PCDATA</b>	<b>SearchString</b>
Data type	String
Format	Text string
Description	<i>SearchElement</i> searches for this (sub)string.
Range	Max 100 characters.

**Table 53. SearchString**

<b>XML PCDATA</b>	<b>ServerPollMin</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Indicates the minimum time period that must pass between two subsequent PollingRequest transactions. The value indicates the time in seconds.
Range	The value must be higher than zero.

**Table 54. ServerPollMin**

<b>XML PCDATA</b>	<b>SessionCookie</b>
Data type	String
Format	Text string
Description	A client-generated cookie provided during login phase.
Range	Max 50 characters.

**Table 55. SessionCookie**

<b>XML PCDATA</b>	<b>SessionID</b>
Data type	String
Format	Text string that is unique in the scope of the user. The session-ID is case sensitive.
Description	Identifies a session.
Range	Max 50 characters.

**Table 56. SessionID**

<b>XML PCDATA</b>	<b>SessionType</b>
Data type	Enumerated string
Format	Text string
Description	Describes the nature of the session. Inband if a there is an open session (and session-ID can be provided), otherwise Outband.
Range	Inband   Outband

**Table 57. SessionType**

<b>XML PCDATA</b>	<b>SName</b>
Data type	String
Format	Text string. Not case sensitive.
Description	The “name” part of the screen name.
Range	Max 50 characters.

**Table 58. SName**

<b>XML PCDATA</b>	<b>SubscribeNotification</b>
Data type	Boolean
Format	Defined in section 3.3.
Description	Indicates that the particular group’s group change notification is subscribed or not (turned on or off).
Range	Defined in section 3.3

**Table 59. SubscribeNotification**

<b>XML PCDATA</b>	<b>SubscribeType</b>
Data type	String
Format	Text character
Description	The type of the subscription request. It is <b>Get</b> , <b>Set</b> , or <b>Unset</b> .
Range	G   S   U

**Table 60. SubscribeType**

<b>XML PCDATA</b>	<b>SupportedBearer</b>
Data type	Enumerated string
Format	Text string
Description	Bearer that the client supports.
Range	SMS   WSP   HTTP   HTTPS

**Table 61. SupportedBearer**

<b>XML PCDATA</b>	<b>SupportedCIRMethod</b>
Data type	Enumerated string
Format	Text string
Description	Communication Initiation Request method that the client supports.
Range	WAPSMS – for WAP 1.2/2.0 WSP unit push over SMS WAPUDP – for WAP 1.2/2.0 WSP unit push over UDP/IP SUDP – for Standalone UDP/IP STCP – for Standalone TCP/IP

**Table 62. SupportedCIRMethod**

<b>XML PCDATA</b>	<b>TCPAddress</b>
Data type	String
Format	Defined in section 3.2.
Description	The client may indicate that it wants to use a different IP address for standalone TCP/IP CIR method.
Range	Defined in section 3.2.

**Table 63. TCPAddress**

<b>XML PCDATA</b>	<b>TCPPort</b>
Data type	Integer
Format	Defined in section 3.2.
Description	The client may indicate that it supports other than the default port for the standalone TCP/IP CIR method.
Range	Defined in section 3.2.

**Table 64. TCPPort**

<b>XML PCDATA</b>	<b>TimeToLive</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Indicates the interval in which the server expects the KeepAliveRequest message in order to keep a session alive. (And how often should the KeepAlive transaction occur if no other transactions are done in the meantime.) Indicated in seconds.
Range	Defined in section 3.2.

**Table 65. TimeToLive**

<b>XML PCDATA</b>	<b>TransactionContent</b>
Data type	String
Format	As defined in the referred namespace.
Description	The transaction itself. This element is used to give reference to the namespace (DTD) to be used under this specific tag.
Range	The namespace attribute points to a valid Wireless Village transaction namespace

**Table 66. TransactionContent**

<b>XML PCDATA</b>	<b>TransactionID</b>
Data type	String
Format	Text string that is unique for each transaction in the scope of the session. The transaction-ID is case sensitive.
Description	Identifies a transaction. The initiating party assigns this ID.
Range	Max 50 characters

**Table 67. TransactionID**

<b>XML PCDATA</b>	<b>TransactionMode</b>
Data type	Enumerated string
Format	Text string
Description	Describes the nature of the transaction. Request if a new transaction is started, otherwise Response.
Range	Request   Response

**Table 68. TransactionMode**

<b>XML PCDATA</b>	<b>UDPPort</b>
Data type	Integer
Format	Defined in section 3.2.
Description	The client may indicate that it supports other than the default port for the standalone UDP/IP CIR method.
Range	Defined in section 3.2.

**Table 69. UDPPort**

<b>XML PCDATA</b>	<b>URL</b>
Data type	String
Format	URL
Description	See [RFC2396].
Range	Max 200 characters

**Table 70. URL**

<b>XML PCDATA</b>	<b>UserID</b>
Data type	String
Format	Defined in [WV-CSP]. The user-ID is not case sensitive.
Description	Unique identifier of a single user.
Range	Max 50 characters

**Table 71. UserID**

<b>XML PCDATA</b>	<b>Validity</b>
Data type	Integer
Format	Defined in section 3.2.
Description	Indicates the interval in seconds during which the message is valid.
Range	Defined in section 3.2.

**Table 72. Validity**

<b>XML PCDATA</b>	<b>Value</b>
Data type	String
Format	Text string
Description	Used for multiple purposes, see [WV-CSP] for further information about the particular case.
Range	Max 50 characters

**Table 73. Value**