

Blackbaud Employee Giving and Blackbaud Employee Volunteering

SOAP format – Simple Object Access Protocol

The User Web Services application programming interface (API) allows you to create, update or deactivate a user using a SOAP processor created and maintained by your organization. You can use any program that can send a Simple Object Access Protocol (SOAP) request and handle SOAP Responses.

This document describes the elements of the SOAP request format and database schema which may be included in the SOAP envelope.

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SOAP Request Schema Format Description

The User Web Services application allows you to create and manage a wide range of data points that are specific to each user beyond the required data points in a SOAP request. For example, SOAP requests can contain non-required information such as user email address, work address, language, etc. After deciding which user data points will be included in the SOAP request, refer to the section below on how to structure that information in a SOAP request.

SOAP Request Schema Format Structure

This section describes the formatting required by database schema and the required order of each data point.

Note: Our XML validator does not accept Ampersands(&) and will cause errors in processing.

This is a required alphanumeric field up to 60 characters.

`<user:externalID?></user:externalID>`

This is a required alphanumeric field up to 60 characters.

`<user:loginName?></user:loginName>`

This is an alphanumeric field up to 128 characters.

`<user:password?></user:password>`

This alphanumeric field up to 225 characters and must follow email address domain formatting:

username@example.com

`<user:email?></user:email>`

This is a required alphanumeric field up to 50 characters.

`<user:firstName?></user:firstName>`

This is an alphanumeric field up to 50 characters.

`<user:middleName?></user:middleName>`

This is a required alphanumeric field up to 100 characters.

`<user:lastName?></user:lastName>`

This is an alphanumeric field up to 50 characters.

`<user:homePhone?></user:homePhone>`

This is an alphanumeric field up to 50 characters.

`<user:officePhone?></user:officePhone>`

This is an alphanumeric field up to 50 characters.

`<user:mobile?></user:mobile>`

This is an alphanumeric field up to 50 characters.

`<user:fax?></user:fax>`

This is the Home Address field with sub field limits. Home Address is non-required if all sub fields are omitted.

<user:homeAddress>

This is an alphabetical field of 3 characters. If City is provided, then Country is required and must conform to the ISO 3166 3-character country code. (i.e. USA, CAN, etc.)

<user:country>?</user:country>

This is an alphanumeric field of 50 characters. Values must either conform to a 5-digit ZIP code or, if a 9-digit ZIP code is used, the dash '-' character is required after the first 5 digits. For postal codes outside the US, any string is valid.

<user:postalCode>?</user:postalCode>

This is an alphabetical field with a limit of 50 characters. Required if Country is non-US and City is included.

<user:stateOrProvince>?</user:stateOrProvince>

This is an alphanumeric field with a limit of 75 characters.

<user:city>?</user:city>

This is an alphanumeric field with a limit of 75 characters.

<user:county>?</user:county>

This is an alphanumeric field with a limit of 150 characters.

<user:address1>?</user:address1>

This is an alphanumeric field with a limit of 150 characters.

<user:address2>?</user:address2>

</user:homeAddress>

This is the Work Address field with sub field limits. Work Address is non-required if all sub fields are omitted.

<user:workAddress>

This is an alphabetical field of 3 characters. If City is provided, then Country is required and must conform to the ISO 3166 3-character country code. (i.e. USA, CAN, etc.)

<user:country>?</user:country>

This is an alphanumeric field of 50 characters. Values must either conform to a 5-digit ZIP code or, if a 9-digit ZIP code is used, the dash '-' character is required after the first 5 digits. For postal codes outside the US, any string is valid.

<user:postalCode>?</user:postalCode>

This is an alphabetical field with a limit of 50 characters. Required if Country is non-US and City is included.

`<user:stateOrProvince?></user:stateOrProvince>`

This is an alphanumeric field with a limit of 75 characters.

`<user:city?></user:city>`

This is an alphanumeric field with a limit of 75 characters.

`<user:county?></user:county>`

This is an alphanumeric field with a limit of 150 characters.

`<user:address1?></user:address1>`

This is an alphanumeric field with a limit of 150 characters.

`<user:address2?></user:address2>`

`</user:workAddress>`

This is an integer field up to 10 numbers.

`<user:volunteerHoursGoal>0</user:volunteerHoursGoal>`

This is a Boolean the takes a true or false.

`<user:canProvideTransportation>>false</user:canProvideTransportation>`

This is a Boolean the takes true or false.

`<user:anonymous>>false</user:anonymous>`

This is a Boolean the takes a true or false.

`<user:sendExternalEmail>>true</user:sendExternalEmail>`

This is a 2-character field.

`<user:shirtSize?></user:shirtSize>`

This is a 3-character field.

`<user:availability?></user:availability>`

This is an alphanumeric field up to 300 characters.

`<user:jobFunction?></user:jobFunction>`

This is an alphanumeric field up to 100 characters.

`<user:title?></user:title>`

This is a Boolean field.

```
<user:gender>?</user:gender>
```

This is an alphanumeric field up to 255 characters.

```
<user:company>?</user:company>
```

This is an alphanumeric field of 2 characters.

```
<user:language>en</user:language>
```

These are specific datatypes that are determined by the UI and database, which requires the name of the causes.

```
<user:causes>  
  <user:cause name="?" />  
</user:causes>
```

These are specific datatypes that are determined by the UI and database, which requires the name of the skills.

```
<user:skills>  
  <user:skill name="?" />  
</user:skills>
```

These are specific datatypes that define user classification assignments such as Location or Department, which requires the ID of the group, category and string for the title. Repeat this line for each group category.

```
<user:memberships>  
  <user:membership group="?" category="?" title="?" />  
</user:memberships>
```

These are specific datatypes that define user classification managerships such as Location or Department, which requires the ID of the group, category and string for the title.

```
<user:managerships>  
  <user:managership group="?" category="?" title="?" />  
</user:managerships>
```

This is used for any other information that will be added to the User Meta data table (Custom information) in the database.

```
<user:metaData>  
  <user:meta key="?" sequence="?">?</user:meta>  
</user:metaData>
```