

# INTEGRATION API

## ESSENTIALS

# Questback Integration library

Contact: ([integration@questback.com](mailto:integration@questback.com))

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## Getting Started

In order to access integration library, make sure you have following.

- You have set up integration password on your Questback account you want to access integration library with.

Account Settings > Users > Imran Tamboli

### UPDATE THE USER INFORMATION

Your username and password are used each time you log in to the QuestBack service. Make sure to memorize your username and password. You can edit your personal details below.

#### Update Login Information

Username (e.g. your personal e-mail address): \*

New Password: \*

Confirm Password: \*

Name: \*

Title:

E-mail: \*

Mobile:

Country/Region: \*

User Type:

Role: \*

Language:

Yes, I would like to receive the QuestBack Newsletter

#### Integration Information

Integration Password:

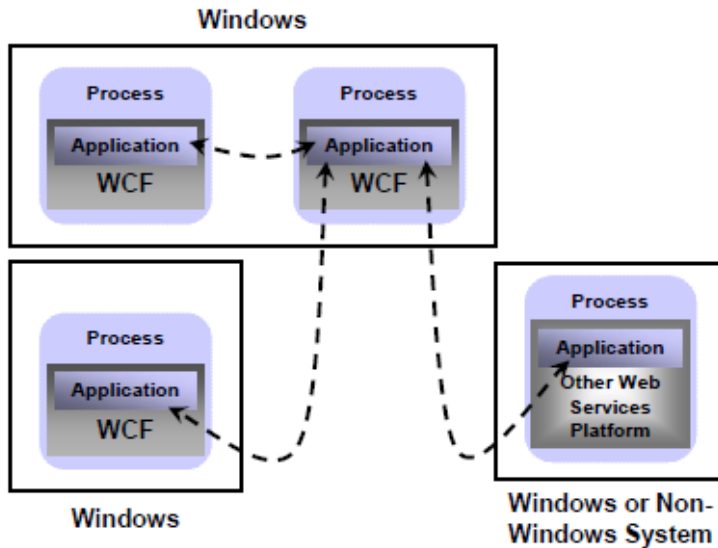
Confirm Integration Password:

If you do not see “integration information” section on your account, contact us at [integration@questback.com](mailto:integration@questback.com), to provide you with access.

## What is WCF (Windows communication foundation)

WCF is SDK for developing and deploying services on windows which can be consumed by any other platform or technology that supports SOAP or WS\* standards. It is Microsoft’s implementation of a set of industry standards defining service interactions, type conversion, marshaling, and various protocols’ management. Because of that, WCF provides interoperability between services. WCF provides developers with the essential off-the-shelf plumbing required by almost any application, and as such, it greatly increases productivity.

Because WCF’s fundamental communication mechanism is SOAP, WCF-based applications can communicate with other software running in a variety of contexts. As shown in the figure below, an application built on WCF can interact with all of the following:



- WCF-based applications running in a different process on the same Windows machine.
- WCF-based applications running on another Windows machine.
- Applications built on other technologies, such as J2EE application servers, that support standard Web services. These applications can be running on Windows machines or on machines running other operating systems, such as Sun Solaris, IBM z/OS, or Linux.

## General

- Authentication: Username / integration password
- Authorization: Same access levels for every user on account as web interface.
- In the soap envelope examples you need to replace all tags on the format [xtagnamex] with appropriate values.
- You can find more samples in demo application source code.
- You can access interface library at <https://integration.questback.com/integration.svc?wsdl>
- QuestId and SecurityLock can be found by clicking on “preview quest” button in Questback:

<https://web2.questback.com/Quests/QuestDesigner/PreviewPage.aspx?QuestID=0000000&sid=tt2Dsg4AhA&PPK=djke4ljAnr>

where “sid” is the SecurityLock OR you can use “GetQuests” method explained below

- **Objects:** click on object name to navigate to object details.
- If you have questions regarding integration please contact [integration@questback.com](mailto:integration@questback.com)

## Dates and TimeZone

When calling the API methods all dates should be given on the format YYYY-MM-DDThh:mm:ss.ffffff.

:ss.ffffff in the datetime is optional. Meaning you can omit numbers from the end. If you want to have the datetime down to seconds you may omit all the fractions (all the fffffff) E.g. “2016-08-08T10:00:00”. If you want to use milliseconds add 3 fractions E.g. “2016-08-08T10:00:00.123”

For the date time parameters It is possible to append **Z** at the end to indicate this is a UTC datetime, or use **±hh** or **±hh:mm** to indicate the offset from UTC. E.g. 2016-08-08T10:00:00.545Z, 2016-08-08T10:00:00.1234567+04:00 or 2016-08-08T10:00:00-01.

On the [UserInfo](#) object you may set a time zone. See the [appendix](#) for a list of all supported time zones. E.g., Etc/UTC, which indicate Universal Time Coordinated.

When time zone is set, **all returned date times** from the API will be in the time zone given. We will assume that date time parameters used for the API methods are in the given time zone unless you appended a Z or an offset from UTC to the date time.

If you do not specify a time zone, the date time will work like the old API for backward compatibility. Time zone used will be the server time, which is "Europe/Oslo" UTC+01:00.

**Some examples of date time parameter values and how they are interpreted inside the API methods.**

Time zone	Incoming Parameter	API method will interpret this to the UTC date time	Description
<not set>	2016-03-03T10:00:00	2016-03-03T09:00:00Z	Time zone is not set, defaults to Europe/Oslo
<not set>	2016-03-03T10:00:00Z	2016-03-03T10:00:00Z	Z is appended, the incoming date time is always assumed to be UTC
<not set>	2016-03-03T10:00:00+04	2016-03-03T06:00:00	Offset will always be used
Europe/Oslo	2016-03-03T10:00:00	2016-03-03T09:00:00Z	UTC+01:00
Europe/Oslo	2016-08-12T10:00:00	2016-08-12T08:00:00	Summertime!
Europe/Oslo	2016-03-03T10:00:00Z	2016-03-03T10:00:00Z	Z is appended, the incoming date time is always assumed to be UTC
Europe/Oslo	2016-03-03T10:00:00+05	2016-03-03T05:00:00	Offset will always be used. Time zone setting ignored.
America/Los_Angeles	2016-03-03T10:00:00	2016-03-03T18:00:00Z	UTC-08:00
America/Los_Angeles	2016-08-12T10:00:00	2016-08-12T17:00:00	Summertime!
America/Los_Angeles	2016-03-03T10:00:00Z	2016-03-03T10:00:00Z	Z is appended, the incoming date time is always assumed to be UTC
America/Los_Angeles	2016-03-03T10:00:00+05	2016-03-03T05:00:00	Offset will always be used. Time zone setting ignored.
Africa/Cairo	2016-03-03T10:00:00	2016-03-03T08:00:00	UTC+02:00
Asia/Singapore	2016-03-03T10:00:00	2016-03-03T02:00:00	UTC+08:00



As mentioned, the returned dates from the API will always be in the time zone set in the [UserInfo.TimeZone](#). If the time zone is not set, it will default to Europe/Oslo.

## Test connection

**Usage:** Used to check if your client is able to communicate with server and that the username and password you have is working. If you only want to check that you are able to reach the web api you may use the url <https://integration.questback.com/integration.svc> in a browser. This page will return a simple web page with header "QuestBackService Service".

```
string TestConnection(UserInfo userInfo);
```

**Returns type:** on successful connection, returns string with current namespace of integration library.

Code snippet in C# to access this function:

```
QuestBackIntegrationLibraryClient IQbClient = new QuestBackIntegrationLibraryClient();
UserInfo lUserInfo= new UserInfo();
Paging lPagingInfo=new Paging();
lUserInfo.Username = "your username here";
lUserInfo.Password = "your password here";
lPagingInfo.PageSize = 10;
lPagingInfo.PageNo = 0;
string lStrResult = IQbClient.TestConnection(lUserInfo);
```

## Get quests

**Usage:** To read quests accessible for given user, you can apply different filter criteria's and/or paging to get information as you want.

```
QuestList GetQuests(UserInfo userInfo, Paging pagingInfo, QuestFilter questFilter);
```

Code snippet in C# to access this function:

```
QuestBackIntegrationLibraryClient IQbClient = new QuestBackIntegrationLibraryClient();
UserInfo lUserInfo= new UserInfo();
Paging lPagingInfo=new Paging();
lUserInfo.Username = "your username here";
lUserInfo.Password = "your password here";
lPagingInfo.PageSize = 10;
lPagingInfo.PageNo = 0;
QuestFilter lQuestFilter = new QuestFilter();
lQuestFilter.QuestState = "Active|Scheduled";//access only Active and Scheduled quests
var lQuests = IQbClient.GetQuests(lUserInfo, lPagingInfo,lQuestFilter);
foreach (var lQuest in lQuests.Quests)
    Console.WriteLine(lQuest.QuestId + ":" + lQuest.QuestTitle + ":" + lQuest.State);
```

## Get questions for a quest

**Usage:** To read available questions for given quest.

```
List<QuestQuestion> GetQuestQuestions(UserInfo userInfo, QuestInfo questInfo);
```

## Get completed answers for a question

**Usage:** To read completed answers for given question. Answers can be read based on different filter criteria's.

```
AnswerList GetAnswers(UserInfo userInfo, QuestInfo questInfo, int questionid, Paging pagingInfo, ResponseFilter responseFilter);
```



Code snippet in C# to access this function:

```
QuestBackIntegrationLibraryClient lQbClient = new QuestBackIntegrationLibraryClient();
UserInfo lUserInfo= new UserInfo();
Paging lPagingInfo=new Paging();
lUserInfo.Username = "your username here";
lUserInfo.Password = "your password here";
lPagingInfo.PageSize = 10;
lPagingInfo.PageNo = 0;
QuestInfo lQuestInfo=new QuestInfo();
lQuestInfo.QuestId = 0;//your questid here
lQuestInfo.SecurityLock = ""; //Security lock related to quest here
ResponseFilter lResponseFilter=new ResponseFilter();
int lQuestionId = 0;// question id of quest which you want to read answers for
lResponseFilter.FromDate = "01.01.2011";
lResponseFilter.ToDate = DateTime.Today.ToString();
AnswerList lAnswers= lQbClient.GetAnswers(lUserInfo, lQuestInfo, lQuestionId, lPagingInfo,
lResponseFilter);
foreach (var answer in lAnswers.Answers)
    Console.WriteLine(answer.OrderNo + ":"+ answer.Value);
```

## Get responses to quest

**Usage:** To read completed responses to given quest, differs from get answers, it returns respondents info and all answers from that response id for given quest. Respondent info is available only when response is non anonymous.

```
ResponseList GetResponses(UserInfo userInfo, QuestInfo questInfo, Paging
pagingInfo, ResponseFilter responseFilter);
```

## Get invitee info

**Usage:** To get list of invitees added to a quest

```
InviteeList GetInviteesInfo(UserInfo userInfo, QuestInfo questInfo, Paging
pagingInfo, InviteeFilter inviteeFilter);
```

Result are sorted by invitation id, hence sorted in the order they was added to the quest. Oldest at the start, newest appended at the end.

## Get count of respondent vs. Invitee

**Usage:** To get Invitation/Response counts and last response date for given quest.

```
QuestInvitationResponseInfo GetInvitationResponseCounts(UserInfo userInfo,
QuestInfo questInfo);
```

## Get list respondent data for a quest

**Usage:** To read respondents data uploaded to quest as respondent data.

```
RespondentList GetRespondentsData(UserInfo userInfo, QuestInfo questInfo,
string delimiter, Paging pagingInfo, RespondentsDataFilter
respondentsDataFilter);
```

## Add email invitees

**Usage:** To add email invitation(s) to given quest without respondent data.

```
string AddEmailInvitees(UserInfo userInfo, QuestInfo questInfo, List<string> emails, bool sendduplicate, int languageId);
```

Max 1000 rows/invitations can be added per call

### Code snippet in C# to access this function:

```
QuestBackIntegrationLibraryClient lQbClient = new QuestBackIntegrationLibraryClient();
UserInfo lUserInfo= new UserInfo();
QuestInfo lQuestInfo=new QuestInfo();
lQuestInfo.QuestId = 0;//your questid here
lQuestInfo.SecurityLock = ""; //Security lock related to quest here
lUserInfo.Username = "your username here";
lUserInfo.Password = "your password here";
string[] lEmailArray=new string[2]; //Array of email addresses
lEmailArray[0] = "inviteemail1@domain.com";
lEmailArray[1] = "inviteemail2@domain.com";
lQbClient.AddEmailInvitees(lUserInfo, lQuestInfo, lEmailArray, true, 0);
```

## Add respondent data

**Usage:** To add an email invitee with respondent data to a quest. This method will add an invitee on the quest and send the invitation.

```
string AddRespondentsData(UserInfo userInfo, QuestInfo questInfo, RespondentsData respondentsData, int languageId);
```

Currently we support ONLY 1 row per call for this function.

In order for the invitation to be sent immediately you need to set the `AddAsInvitee` element as true. The default value is false. If default value is used, the invitation and respondent data is added to the system and will appear in the distribution section, but the actual email or SMS won't be sent. Note. it is possible to send these later using the UI.

### Send sms invitations

If you have a SMS subscription with Questback it is possible to send an invitation as a SMS message OR email. In order to send SMS messages, you need to mark one column (and one column only) with the `isSmsfield=true` in the `RespondentDataHeader` object. This column then needs to contain a valid mobile number with the correct country code in front of the number. E.g., +4787654321 (remember the + sign). Someone also needs to enable SMS and create a proper sms invitation in the web application.

It is possible to apply both system email address and/or a system mobile phone number in the respondent data. This could be handy if you do not have email for every respondent, but you have a mobile phone number that you want to send the SMS invitation instead. If you rather want the invitations primarily to be sent by SMS you need to set the `DistributionPrioritization=sms` on the [RespondentsData](#) Object.

You then need to set `isEmailField=true` for the column that contains the email the invitation should be sent and set `isSmsField=true` for the one column that contains a valid phone number. Either columns could be blank, but if both is blank, no invitation is created.

For RespondentDataHeader mapping, go to [Mapping of RespondentDataHeader columns](#)

## Add respondent data without sending email via Questback

**Usage:** To add an email invitee with respondent data to quest and get unique invitation link per respondent, mainly used by customers who want to send invitation emails by their own email client or any other channels. This method returns unique link per respondent.

```
string AddRespondentsDataWithoutEmailInvitation(UserInfo userInfo,  
QuestInfo questInfo, RespondentsData respondentsData, int languageId);
```

Currently we support ONLY 1 row per call for this function.

For RespondentDataHeader mapping, go to [Mapping of RespondentDataHeader columns](#)

## Get language list

**Usage:** To retrieve language list used in Questback. Here you may find the correct language id to use if you have a multilingual quest.

```
List<Language> GetLanguageList(UserInfo userInfo);
```

## Get Report Export

**Usage:** Create an export and retrieve a link to the export generated. The report is generated on the server and you need to use the link to download the generated report.

```
ReportExportInfo GetReportExport(UserInfo userInfo, QuestInfo questInfo,  
ResponseFilter responseFilter, ReportExportSettings reportExportSettings);
```

## Mapping of RespondentDataHeader columns

Mapping of the respondent data questions only applies for the methods *AddRespondentsData* and *AddRespondentsDataWithoutEmailInvitation*. Following is a simple setup for a scenario explaining the mapping functionality.

RespondentDataHeader definition used in the soap envelope:

```
<RespondentDataHeader>  
  <RespondentDataHeader>  
    <Title>Email</Title><Type>Text</Type>  
    <IsEmailField>true</IsEmailField>  
  </RespondentDataHeader>  
  <RespondentDataHeader>  
    <Title>Name</Title><Type>Text</Type>  
  </RespondentDataHeader>
```

```
<RespondentDataHeader>
  <Title>Age</Title><Type>Text</Type>
</RespondentDataHeader>
</RespondentDataHeader>
```

RespondentData definition used in the soap envelope:

```
<RespondentData xmlns:d5p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <d5p1:string>JohnDoe35@questback.com;John doe;35</d5p1:string>
</RespondentData>
```

Respondent data questions on the corresponding quest:

1. Email
2. Name
3. Age
4. Manager (Manager not defined in RespondentDataHeader)

The RespondentDataHeader specifies which respondent data questions on the quest the RespondentData should be mapped to. Either you leave RespondentDataHeader blank, or you specify all the questions that you want to use.

### Leave RespondentDataHeader blank

If you leave the RespondentDataHeader blank the sequence of the data in the RespondentData need to match the sequence of the respondent data questions on the quest. In the example given we have three values separated with “;”: **JohnDoe35@questback.com;John doe;35**. These values correspond with the quest setup.

1. Email -> **JohnDoe35@questback.com**
2. Name -> **John doe**
3. Age-> **35**

Manager is not matched with any values, but this is ok since manager is the last question. You could add another value in the RespondentData **JohnDoe35@questback.com;John doe;35;The Boss**. Manager would then get the value ‘The Boss’.

### Use RespondentDataHeader

If you use the RespondentDataHeader the value for <title> need to match exactly (not case sensitive) with the name of the respondent data question on the quest. And the sequence of the title values must match the sequence of the values in RespondentData. In the example title values are given in the sequence **Email, Name** and **Age** which match with the values in the RespondentData **JohnDoe35@questback.com;John doe;35**.

When we use the RespondentDataHeader the sequence of the titles does not need to match the sequence of the respondent data questions on the quest and we do not need to specify all questions on the quest. We could replace the <title> value **Name** with **Manager** in the RespondentDataHeader. Then **Name** would not get any value, but **Manager** would get the value **John Doe**. A more logical approach would probably be to add another value to the RespondentData and put a new section into the RespondentDataHeader after **Age**:

```
<RespondentDataHeader>
```

```
<Title>Manager</Title><Type>Text</Type>  
</RespondentDataHeader>
```

And RespondentData = **JohnDoe35@questback.com;John doe;35;The Boss**. Then **Name** would still get the value **John Doe** and **Manager** would get the value **The Boss**.

#### **Create New RespondentDataQuestion**

If you add a section with a title value that do not correspond to any respondent data question on the quest a new respondentdata question will be created with the given name.

### **Add respondent data with SMS Invitation (Obsolete, use AddRespondentsData)**

OBSOLETE

This method is deprecated, use only as reference for old implementations. Use the method *AddRespondentsData* for sending SMS.

## Soap request examples

Examples of soap request for the methods in the API. You need this if you are not able to consume the service. It is highly recommended to consume the service since this will make it a lot easier to implement with the API. The following soap request you can test in ARC, Postman, Fiddler or similar applications. Please note that there will be fields that you need to replace with valid values for your scenario e.g., username and password. Fields you need to replace is on the form: [⌘tagname⌘]. To generate these soap messages yourself you can use e.g., SoapUI and use the url <https://integration.questback.com/integration.svc?wsdl> to get the wsdl.

### TestConnection

Headers:

```
soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/TestConnection"  
Content-Type: text/xml;charset=utf-8
```

Body:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  
  <s:Body>  
    <TestConnection xmlns="https://integration.questback.com/2011/03">  
      <userInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
        <Username>[⌘username⌘]</Username>  
        <Password>[⌘password⌘]</Password>  
      </userInfo>  
    </TestConnection>  
  </s:Body>  
</s:Envelope>
```

### GetQuests

StartDate, EndDate and OwnedOnly is optional and could be left out in the body below.

Headers:

```
soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/GetQuests"  
Content-Type: text/xml;charset=utf-8
```

Body:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  
  <s:Body>  
    <GetQuests xmlns="https://integration.questback.com/2011/03">  
      <userInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
        <Username>[⌘username⌘]</Username>  
        <Password>[⌘password⌘]</Password>  
      </userInfo>  
      <pagingInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
        <PageNo>0</PageNo>  
        <PageSize>10</PageSize>  
      </pagingInfo>  
      <questFilter>  
        <QuestState>Draft | Active | Scheduled</QuestState>  
        <StartDate>[⌘startdate⌘]</StartDate>  
        <EndDate>[⌘enddate⌘]</EndDate>  
        <OwnedOnly>[⌘ownedonly⌘]</OwnedOnly>  
      </questFilter>  
    </GetQuests>  
  </s:Body>  
</s:Envelope>
```

## GetQuestQuestions

### Headers:

soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/GetQuestQuestions"  
Content-Type: text/xml;charset=utf-8

### Body:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetQuestQuestions xmlns="https://integration.questback.com/2011/03">
      <userInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <Username>[username]</Username>
        <Password>[password]</Password>
      </userInfo>
      <questInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <QuestId>[questid]</QuestId>
        <SecurityLock>[questsid]</SecurityLock>
      </questInfo>
    </GetQuestQuestions>
  </s:Body>
</s:Envelope>
```

## GetAnswers

### Headers:

soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/GetAnswers"  
Content-Type: text/xml;charset=utf-8

### Body:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetAnswers xmlns="https://integration.questback.com/2011/03">
      <userInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <Username>[username]</Username>
        <Password>[password]</Password>
      </userInfo>
      <questInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <QuestId>[questid]</QuestId>
        <SecurityLock>[questsid]</SecurityLock>
      </questInfo>
      <questionid>[questionid]</questionid>
      <pagingInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <ns:PageNo>0</ns:PageNo>
        <ns:PageSize>10</ns:PageSize>
      </pagingInfo>
      <responseFilter xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <ContactId>0</ContactId>
        <MailAddress i:nil="true"></MailAddress>
        <FromDate i:nil="true"></FromDate>
        <ToDate i:nil="true"></ToDate>
        <LastNDays>0</LastNDays>
      </responseFilter>
    </GetAnswers>
  </s:Body>
</s:Envelope>
```

## GetResponses

### Headers:

soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/GetResponses"  
Content-Type: text/xml;charset=utf-8

### Body:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetResponses xmlns="https://integration.questback.com/2011/03">
      <userInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <Username>[username]</Username>
        <Password>[password]</Password>
      </userInfo>
      <questInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <QuestId>[questid]</QuestId>
        <SecurityLock>[questsid]</SecurityLock>
      </questInfo>
      <pagingInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <ns:PageNo>0</ns:PageNo>
        <ns:PageSize>1</ns:PageSize>
      </pagingInfo>
      <responseFilter xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <ContactId>0</ContactId>
        <MailAdress i:nil="true"></MailAdress>
        <FromDate i:nil="true"></FromDate>
        <ToDate i:nil="true"></ToDate>
        <LastNDays>0</LastNDays>
      </responseFilter>
    </GetResponses>
  </s:Body>
</s:Envelope>
```

## GetInviteesInfo

### Headers:

soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/GetInviteesInfo"  
Content-Type: text/xml;charset=utf-8

### Body:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetInviteesInfo xmlns="https://integration.questback.com/2011/03">
      <userInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <Username>[username]</Username>
        <Password>[password]</Password>
      </userInfo>
      <questInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <QuestId>[questid]</QuestId>
        <SecurityLock>[questsid]</SecurityLock>
      </questInfo>
      <pagingInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <ns:PageNo>0</ns:PageNo>
        <ns:PageSize>10</ns:PageSize>
      </pagingInfo>
      <inviteeFilter xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
```



```
<ContactId>0</ContactId>
<MailAddress i:nil="true"></MailAddress>
<OptedOut>All</OptedOut>
</inviteeFilter>
</GetInviteesInfo>
</s:Body>
</s:Envelope>
```

## GetInvitationResponseCounts

### Headers:

```
soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/GetInvitationResponseCounts"
Content-Type: text/xml;charset=utf-8
```

### Body:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetInvitationResponseCounts xmlns="https://integration.questback.com/2011/03">
      <userInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <Username>[username]</Username>
        <Password>[password]</Password>
      </userInfo>
      <questInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <QuestId>[questid]</QuestId>
        <SecurityLock>[requestid]</SecurityLock>
      </questInfo>
    </GetInvitationResponseCounts>
  </s:Body>
</s:Envelope>
```

## GetRespondentsData

### Headers:

```
soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/GetRespondentsData"
Content-Type: text/xml;charset=utf-8
```

### Body:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetRespondentsData xmlns="https://integration.questback.com/2011/03">
      <userInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <Username>[username]</Username>
        <Password>[password]</Password>
      </userInfo>
      <questInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <QuestId>[questid]</QuestId>
        <SecurityLock>[requestid]</SecurityLock>
      </questInfo>
      <delimiter>;</delimiter>
      <pagingInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <ns:PageNo>0</ns:PageNo>
        <ns:PageSize>10</ns:PageSize>
      </pagingInfo>
    </GetRespondentsData>
  </s:Body>
</s:Envelope>
```

```
</s:Body>  
</s:Envelope>
```

## AddEmailInvitees

### Headers:

```
soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/AddEmailInvitees"  
Content-Type: text/xml;charset=utf-8
```

### Body:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  
  <s:Body>  
    <AddEmailInvitees xmlns="https://integration.questback.com/2011/03">  
      <userInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
        <Username>[username]</Username>  
        <Password>[password]</Password>  
      </userInfo>  
      <questInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
        <QuestId>[questid]</QuestId>  
        <SecurityLock>[requestid]</SecurityLock>  
      </questInfo>  
      <emails xmlns:a="http://schemas.microsoft.com/2003/10/Serialization/Arrays"  
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
        <a:string>email1@questback.com</a:string>  
        <a:string>email2@questback.com</a:string>  
      </emails>  
      <sendduplicate>true</sendduplicate>  
      <languageId>0</languageId>  
    </AddEmailInvitees>  
  </s:Body>  
</s:Envelope>
```

## AddRespondentsData

### Headers:

```
soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/AddRespondentsData"  
Content-Type: text/xml;charset=utf-8
```

### Body:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  
  <s:Body>  
    <AddRespondentsData xmlns="https://integration.questback.com/2011/03">  
      <userInfo>  
        <Username>[username]</Username>  
        <Password>[password]</Password>  
      </userInfo>  
      <questInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
        <QuestId>[questid]</QuestId>  
        <SecurityLock>[requestid]</SecurityLock>  
      </questInfo>  
      <respondentsData xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
        <RespondentDataHeader>  
          <RespondentDataHeader>  
            <Title>Epost</Title>  
            <Type>Text</Type>
```

```

    <IsEmailField>true</IsEmailField>
  </RespondentDataHeader>
</RespondentDataHeader>
  <Title>Name</Title>
  <Type>Text</Type>
  <IsEmailField>>false</IsEmailField>
</RespondentDataHeader>
</RespondentDataHeader>
  <Title>Age</Title>
  <Type>Numeric</Type>
  <IsEmailField>>false</IsEmailField>
</RespondentDataHeader>
</RespondentDataHeader>
<RespondentData xmlns:a="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <a:string>JohnDoe@questback.com;John doe;34</a:string>
</RespondentData>
<Delimiter>;</Delimiter>
<AllowDuplicate>>true</AllowDuplicate>
<AddAsInvitee>>true</AddAsInvitee>
<DistributionPrioritization>email</DistributionPrioritization>
</respondentsData>
<languageId>0</languageId>
</AddRespondentsData>
</s:Body>
</s:Envelope>

```

### AddRespondentsDataWithoutEmailInvitation

#### Headers:

```

soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/AddRespondentsDataWithoutEmail
invitation"
Content-Type: text/xml;charset=utf-8

```

#### Body:

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    term
      <userInfo>
        <Username>[username]</Username>
        <Password>[password]</Password>
      </userInfo>
      <questInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <QuestId>[questid]</QuestId>
        <SecurityLock>[requestsid]</SecurityLock>
      </questInfo>
      <respondentsData xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <RespondentDataHeader>
          <RespondentDataHeader>
            <Title>Epost</Title>
            <Type>Text</Type>
            <IsEmailField>true</IsEmailField>
          </RespondentDataHeader>
          <RespondentDataHeader>
            <Title>Name</Title>
            <Type>Text</Type>
            <IsEmailField>>false</IsEmailField>
          </RespondentDataHeader>
          <RespondentDataHeader>
            <Title>Age</Title>
            <Type>Numeric</Type>

```

```
<IsEmailField>>false</IsEmailField>
</RespondentDataHeader>
</RespondentDataHeader>
<RespondentData xmlns:a="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <a:string>JohnDoe@questback.com;John doe;34</a:string>
</RespondentData>
<Delimiter>;</Delimiter>
<AllowDuplicate>>true</AllowDuplicate>
<AddAsInvitee>>true</AddAsInvitee>
</respondentsData>
<languageId>0</languageId>
</AddRespondentsDataWithoutEmailInvitation>
</s:Body>
</s:Envelope>
```

## GetLanguageList

### Headers:

```
soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/GetLanguageList"
Content-Type: text/xml;charset=utf-8
```

### Body:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetLanguageList xmlns="https://integration.questback.com/2011/03">
      <userInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <Username>[username]</Username>
        <Password>[password]</Password>
      </userInfo>
    </GetLanguageList>
  </s:Body>
</s:Envelope>
```

## GetReportExport

### Headers:

```
soapaction:"https://integration.questback.com/2011/03/QuestBackIntegrationLibrary/GetReportExport"
Content-Type: text/xml;charset=utf-8
```

### Body:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="https://integration.questback.com/2011/03">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetReportExport>
      <ns:userInfo>
        <ns:Username>[username]</ns:Username>
        <ns>Password>[password]</ns>Password>
        <ns:TimeZone></ns:TimeZone>
      </ns:userInfo>
      <ns:questInfo>
        <ns:QuestId>[questid]</ns:QuestId>
        <ns:SecurityLock>[questsid]</ns:SecurityLock>
      </ns:questInfo>
      <ns:responseFilter>
```

```
<!--ns:ContactId--></ns:ContactId-->
<!--ns:MailAddress--></ns:MailAddress-->
<!--ns:FromDate--></ns:FromDate-->
<!--ns:ToDate--></ns:ToDate-->
<ns>LastNDays>0</ns>LastNDays>
</ns:responseFilter>
<ns:reportExportSettings>
  <ns:ExportType>XLS</ns:ExportType>
  <ns:RawDataValue>Text</ns:RawDataValue>
  <ns:SplitMultiSelectAnswers>>false</ns:SplitMultiSelectAnswers>
  <ns:IncludeEmailOrPhone>>false</ns:IncludeEmailOrPhone>
  <ns:CsvFieldSeparator>;</ns:CsvFieldSeparator>
</ns:reportExportSettings>
</ns:GetReportExport>
</soapenv:Body>
</soapenv:Envelope>
```

**List of objects and parameters used.**

Object	Properties	Datatype	Comments
Paging	PageNo	Integer	Starts from 0
	PageSize	Integer	Number of records returned pr page.
	TotalCount	Integer	Total records found for given filter criteria.
UserInfo	Username	String	Questback username for accessing quest details
	Password	String	Questback Integration password for given user.
	TimeZone	String	A valid time zone. See the <a href="#">Appendix</a> for a list of valid time zones.
QuestInfo	QuestId	Integer	Quest Id
	SecurityLock	String	Security lock verified against quest id
QuestFilter	QuestState	<a href="#">QuestState</a>	Filter on enum values
	StartDate	String	Filter on from date
	EndDate	String	Filter on to date
	OwnedOnly	Bool	Filter on quests owned by given user
Quest	QuestId	Integer	Quest Id
	SecurityLock	String	Security lock verified against quest id
	QuestTitle	String	Title of quest
	Startdate	DateTime	Date when quest starts
	EndDate	DateTime	Date when quest ends
	State	<a href="#">QuestState</a>	Current state of quest
	TotalInvitationsSent	Integer	Count of invitations sent to quest
	TotalResponseCount	Integer	Count of responses received so far
	LastResponseDate	DateTime	Date of last response received to quest
	DefaultLanguageId	Integer	Default language for Quest
	Languages	<a href="#">Language[]</a>	Array of languages
	AccountAlias	String	A text alias for the account the quest is connected to. Normally the same for all quests but could differ if the Account Alias has been changes for the account.
	QuestAlias	String	A unique text alias for the quest.
QuestList	Quests	<a href="#">Quest[]</a>	Array of quests
	PageInfo	<a href="#">Paging</a>	
enum QuestState	Draft = 0		
	Active = 1		
	Closed = 2		
	Scheduled = 3		
QuestQuestion	QuestId	Integer	
	QuestionNumber	Integer	Order number of questions in list

	QuestionId	Integer	
	QuestionTitles	<a href="#">QuestionTitle[]</a>	List of titles /array because of multilingual
	DisplayQuestionTitle	Bool	If the title is displayed in the survey.
	QuestionType	String	Various question types
	IsVisible	Bool	Is question visible or hidden
	IsRespondentData	Bool	If false, this is a regular question. If true, this is respondent data
	QuestionAlternatives	<a href="#">Alternatives[]</a>	Array of alternatives available to the question if any
	Comments	String	Old, deprecated.
	SubQuestion	<a href="#">QuestQuestion[]</a>	Array of questions/ this is only if Question types are MatrixMultiSelect or DropDownPriorityList. It can be only one sub level in hierarchy
	HierarchicalAlternativeStructure	<a href="#">HierarchicalAlternative</a>	Only used for hierarchical questions. From this information you can recreate the real structure of the hierarchical question
	Comment	<a href="#">QuestionComment</a>	Question comments. (Additional info)
<b>QuestionTitle</b>	LanguageId	Integer	Language id for quest title
	Title	String	Language title in above language
<b>QuestionComment</b>	LanguageId	Integer	Language id for the comment
	Comment	String	Comment with tags. Raw text that is behind the text of the 'additional Info' box in the web application. In the web application, click 'Show Html' button in the editor to see the text.
	CommentStrippedForHtml	string	Comment, where the tags are removed by best effort.
<b>Alternatives</b>	OrderNo	Integer	Order number for alternative
	DefaultText	String	Default text for alterative.
	AlternativeTexts	<a href="#">AlternativeText[]</a>	List of alternative texts that exists for the alternative. Note. A translation does not necessarily exist for every language on the quest
	Weight	Integer	Weight for this alternative. E.g., Used to calculate the average for this question.
	Score	Float (n.2)	Score added to respondent obtained score if answering this alternative. Float with maximum 2 decimals.
<b>AlternativeText</b>	LanguageId	Integer	
	Text	String	Text for the alternative corresponding with the LanguageId above.
<b>HierarchicalAlternative</b>	Id	Long	Unique id for the alternative
	ParentId	Long?	Points to the parent alternativeid. For a root alternative parentid=null.

	OrderNo	Integer	Order of the alternative within one group of alternatives. (Alternatives with the same parentid)
<b>Invitee</b>	InvitationId	Integer	Invitation id
	ContactId	Integer	User id
	SecurityLock	String	Securitylock for user
	MailAddress	String	E-mail address
	InvitationSent	Bool	Has invitation already sent
	HasReplied	Bool	Has user replied
	OptedOut	Bool	Has user opted out from quest
	LanguageId	Integer	LanguageId for the language used when sending out invitations and reminders.
	AddedDate	DateTime	When the invitation was added
	ScheduledDate	DateTime	When the invitation is scheduled to be sent.
	InvitationSentDate	DateTime	When the invitation was sent.
	InvitationStatus	String	<p>Status for the invitation.</p> <p>Possible values:</p> <p><b>Inactive:</b> Invitation is not active, the invitation will not be sent before the invitation is set active.</p> <p><b>Scheduled:</b> Planned sent at ScheduledDate</p> <p><b>SendImmediate:</b> Will be sent as soon as possible. Invitation should only have this state in a short time span.</p> <p><b>Quarantined:</b> Will not be sent because respondent recently received an invitation from the quest. (This feature is disabled by default and will only occur for quarantined enabled quests)</p> <p><b>Sent:</b> Invitation attempted sent. See SentStatus for details.</p>
SentStatus	String	<p>Sent status for the invitation.</p> <p>Possible values:</p> <p><b>NotSent:</b> Invitation not sent</p> <p><b>Sent:</b> Invitation sent. Not received any error message yet. (Due to the nature of emails, you do not always get an immediate feedback about failed emails)</p> <p><b>HardBounced:</b> Sending failed, the recipient will most likely never receive the invitation. (Exceptions exist)</p> <p><b>SoftBounced:</b> Sending temporarily failed. Recipient might accept the email invitation if it is resent in the future. (Resending possible in the web application)</p> <p><b>Failed:</b> Sending failed, unknown reason.</p>	
<b>InviteeList</b>	DefLink	String	Information to generate link to answer module
	Invitees	<a href="#">Invitee[]</a>	Array of invitees
	PageInfo	<a href="#">Paging</a>	Paging info with total record count
<b>InviteeFilter</b>	ContactId	Integer	Questback contact id



	MailAddress	String	E-mail address of invitee
	InvitationSent	<a href="#">BoolFilter</a>	Search based on invitations sent (All=0, True=1, False=2)
	HasReplied	<a href="#">BoolFilter</a>	Search based on if invitee has replied sent (All=0, True=1, False=2)
	OptedOut	<a href="#">BoolFilter</a>	Search based on if invitee has opted out (All=0, True=1, False=2)
	GreaterThanInvitationId	Integer	Fetch only InvitationId greater than the given id.
<b>enum BoolFilter</b>	All = 0		Does not take this filter in consideration
	False = 2		Sets filter to false
	True = 1		Sets filter to true
<b>QuestInvitationResponseInfo</b>	QuestId	Integer	
	TotalInvitationsSent	Integer	Count of invitations sent to quest
	TotalResponseCount	Integer	Count of responses received so far
	TotalUnAnsweredInvitation	Integer	Count of unanswered invitations
	TotalIncompleteResponses	Integer	Count of incomplete responses
	LastResponseDate	DateTime	When was last response received to quest
<b>RespondentsData</b>	RespondentDataHeader	<a href="#">RespondentDataHeader []</a>	Headers for respondent data.
	RespondentData	String[]	Respondent data as array of string (one row per respondent) E.g. "test@questback.com;John;Doe"
	Delimiter	String	Respondent data (row) separated by this delimiter
	AllowDuplicate	Bool	If set to true, invitation is sent to invitee regardless of what have been sent in the past.
	AddAsInvitee	Bool	If set to true respondent will be added as invitee.
	DistributionPrioritization	String	Valid values: 'email' or 'sms'. If both the isEmailFiled and isSmsField is used with value true, you need to set preferred distribution method. Default value is email.
<b>RespondentDataHeader</b>	Title	String	Title to respondent data
	Type	<a href="#">RespondentHeaderType</a>	
	IsEmailField	Bool	Set this flag true for the column that contains the email which invitations should be sent. This flag can only be set true for one column. All subsequent will be ignored
	IsSmsField	Bool	Set this flag true for the column that contains the phone number where the sms invitations should be sent. This flag can only be set true for one column. All subsequent will be ignored

enum RespondentHeaderType	Numeric=1		Set type to numeric if you want to filter on the data in reports. The column may contain numerical or textual data. Use with caution! If there are too many unique values (<300 is ok), many operations on the quests will be slow. Typically used on columns with recurring values. E.g., for an internal quest you may use the name of the Manager as a filterable respondent data question.
	Text=2		Columns with numerical or textual data that should not be filterable in reports
RespondentList	RespondentData	String[]	Array of string with respondent data
	PageInfo	<a href="#">Paging</a>	
Answer	QuestionId	Integer	Question id
	ResponseId	Integer	Response id unique per response
	OrderNo	Integer	Order number of selected options. -1 of open
	Value	String	Comments/text used entered for this question
	AnswerType	<a href="#">AnswerType</a>	If answer type is Don't Know or Other else None
	LanguageId	Integer	LanguageId for the language used when answering the quest.
	AlternativeId	Long?	Unique identifier for an alternative. Only set for applicable question types. (e.g., not open answer)
enum AnswerType	None		
	Other		
	DontKnow		
AnswerList	Answers	<a href="#">Answer[]</a>	Array answers
	PageInfo	<a href="#">Paging</a>	Paging info with total record count
Response	ResponseId	Integer	Unique per response
	RespondentId	Integer	User id in questback /returned only if answer is not
	Email	String	E-mail address of respondent /returned only if
	Start	DateTime	Date when first time respondent clicked on quest
	Completed	DateTime	Date when respondent completed quest
	Anonymous	Bool	Is answer anonymous
	InvitationId	Integer	Returned only if answer is not anonymous
	Answers	<a href="#">Answer[]</a>	Array answers
	LanguageId	Integer	LanguageId for the language used when answering the quest.
ResponseList	Responses	<a href="#">Response[]</a>	Array of responses
	PageInfo	<a href="#">Paging</a>	Paging info with total record count
ResponseFilter	ContactId	Integer	User id
	MailAddress	String	Email address of respondent
	FromDate	Datetime (string)	Retrieve responses starting from this date

	ToDate	Datetime (string)	Retrieve response up to this date
	LastNDays	Integer	Responses received in last N days (this will override above dates)
	ResponseId	Long	Unique id for a response.
<b>Language</b>	LanguageId	Integer	
	LanguageName	String	
	IsTranslated	Bool	If we have any translations for the given language in our application
<b>ReportExportSettings</b>	ExportType	ExportType	Enumeration, possible values: SPSS – Statistical Package for the Social Sciences CSV – File with a given delimiter between values XLS – Microsoft Excel Default=CSV
	RawDataValue	ExportRawDataValue	Enumeration, possible values: Text – Returning name of the alternative Numeric – Returning order no for the alternative Weight – Returning the weight on the alternative Default=Text
	SplitMultiSelectAnswer	Bool	If multiple-choice questions should have a separate column for each alternative.
	IncludeEmailOrPhone	Bool	Insert the email or phone number used to send the invitation in the first column of the generated file.
	CsvFieldSeparator	String	What character that should separate the fields in a csv generated file. Only applicable when ExportType equals CSV.
	DisplayOtherFreeText	Bool	If true, then show the actual answer from the respondent. Else the given rawDatavalue. Default is true
<b>ReportExportInfo</b>	Link	String	Url for the generated export.
<b>RespondentsDataFilter</b>	GreaterThanInvitationId	Integer	Fetch only data for InvitationId greater than the given id.

## Change log.

This is version 1 of the document created on 15.03.2011.

25.11.2012

- Added new method "**AddRespondentsDataWithoutEmailInvitation**"

#### 15.01.2014

- Added new method "**AddRespondentsDataWithSmsInvitation**"
- Added support for NPS question type
- Added Two new parameters to Quest object "DefaultLanguageId" and "Languages"

#### 09.08.2015

- **RespondentDataHeader** is interpreted in a different way by the system. Now it is possible to add respondent data questions after a quest is published. If RespondentDataHeader is used to define the respondent data questions, these need to be correct at all times, not just for the first respondent added.
- Method AddRespondentsDataWithSmsInvitation is deprecated and obsolete user method AddRespondentsData instead.
- Added possibility to add SMS invitees with the method AddRespondentsData (Requires valid sms subscription). Remember to set up sms message in the web application.

#### 10.05.2016

- In general added LanguageId in the result for some of the API methods.
- GetQuestQuestions – New list with Alternative texts for all alternatives except respondent data. Alternative texts is a list of texts for all languages available for the given alternative. Added a new field IsRespondentData. If false, it is a regular question. If true, it is respondent data.
- GetResponses – Added LanguageId for the language used when respondents are answering the quest.
- GetAnswers – Added LanguageId for the language used when respondents are answering the quest.
- GetInviteesInfo – Added LanguageId for the language used when sending invitations and reminders. Added a new filter – GreaterThanInvitationId, if an invitation id is given, only invitation ids greater than the given id is returned.

#### 12.08.2016

- Added support for time zones. See section [Dates and timezone](#)

#### 15.01.2017

- Added the following return values to the method GetInviteesInfo:  
AddedDate, ScheduledDate, InvitationSentDate, InvitationStatus and SentStatus.  
See [Invitee](#) for details.
- Updated the demo client application with some error checking, selection for dates and tooltip info.

#### 15.05.2017

- Added Score to alternatives.

#### 12.12.2017

- Now supports hierarchy questions.

- GetQuestQuestions - Added Hierarchy information and alternativeid.  
GetAnswer and GetResponses – Added alternativeid
- **New!** Added method [GetReportExport](#) for fetching link to a raw export.
- Moved soap examples to own section and added more examples.

#### 01.08.2019

- Method GetRespondentsData – Added new filter parameter. Now possible to filter on greaterThanInvitationId
- Method GetResponses not altered

#### 29.08.2020

- Method GetResponses, GetAnswers and GetReportExport – Added new filter parameter. Now possible to filter on responseld

#### 07.12.2020

- Method GetQuests, added two new columns. AccountAlias and QuestAlias

#### 25.02.2021

- Method GetQuestQuestion, added 'Comment'. Contains text from the additional info textbox in the web application.
- Method GetReportExport. Fixed a bug where fetching answers that answered on alternatives that contained tags failed.

#### 19.04.2021

- Method GetQuestQuestion, added 'DisplayQuestionTitle'. Gets the settings if title is shown in the survey.

#### 19.05.2021

- Updated SOAP request examples for GetQuests, GetAnswers, GetResponses, GetInviteesInfo and GetRespondentsData.
- Minor layout and formatting changes to this guide. Corrected some grammar and spelling.

## Appendix A – supported time zones.

Below is a list of supported time zones on the format <time zone>:<Description>. The description is telling the offset from UTC for the standard time (not summer time if applicable). Hence when selecting a time zone for the api only select the text before the semi colon. E.g. **Etc/UTC:(UTC+00:00) Universal time**, only use “Etc/UTC” (value before semicolon) as the value for the [UserInfo.TimeZone](#).

Note. Abbreviation for some time zones not listed here, may work (e.g. CET), but these can be deprecated without prior notice.

Supported time zones:

Etc/UTC:(UTC+00:00) Universal time	America/Anguilla:(UTC-04:00) Anguilla
Africa/Abidjan:(UTC+00:00) Abidjan	America/Antigua:(UTC-04:00) Antigua
Africa/Accra:(UTC+00:00) Accra	America/Araguaina:(UTC-03:00) Araguaina
Africa/Addis_Ababa:(UTC+03:00) Addis Ababa	America/Argentina/Buenos_Aires:(UTC-03:00) Buenos Aires
Africa/Algiers:(UTC+01:00) Algiers	America/Argentina/Catamarca:(UTC-03:00) Catamarca
Africa/Asmara:(UTC+03:00) Asmara	America/Argentina/Cordoba:(UTC-03:00) Cordoba
Africa/Bamako:(UTC+00:00) Bamako	America/Argentina/Jujuy:(UTC-03:00) Jujuy
Africa/Bangui:(UTC+01:00) Bangui	America/Argentina/La_Rioja:(UTC-03:00) La Rioja
Africa/Banjul:(UTC+00:00) Banjul	America/Argentina/Mendoza:(UTC-03:00) Mendoza
Africa/Bissau:(UTC+00:00) Bissau	America/Argentina/Rio_Gallegos:(UTC-03:00) Rio Gallegos
Africa/Blantyre:(UTC+02:00) Blantyre	America/Argentina/Salta:(UTC-03:00) Salta
Africa/Brazzaville:(UTC+01:00) Brazzaville	America/Argentina/San_Juan:(UTC-03:00) San Juan
Africa/Bujumbura:(UTC+02:00) Bujumbura	America/Argentina/San_Luis:(UTC-03:00) San Luis
Africa/Cairo:(UTC+02:00) Cairo	America/Argentina/Tucuman:(UTC-03:00) Tucuman
Africa/Casablanca:(UTC+00:00) Casablanca	America/Argentina/Ushuaia:(UTC-03:00) Ushuaia
Africa/Ceuta:(UTC+01:00) Ceuta	America/Aruba:(UTC-04:00) Aruba
Africa/Conakry:(UTC+00:00) Conakry	America/Asuncion:(UTC-04:00) Asuncion
Africa/Dakar:(UTC+00:00) Dakar	America/Atikokan:(UTC-05:00) Atikokan
Africa/Dar_es_Salaam:(UTC+03:00) Dar es Salaam	America/Bahia:(UTC-03:00) Bahia
Africa/Djibouti:(UTC+03:00) Djibouti	America/Bahia_Banderas:(UTC-06:00) Bahia Banderas
Africa/Douala:(UTC+01:00) Douala	America/Barbados:(UTC-04:00) Barbados
Africa/El_Aaiun:(UTC+00:00) El Aaiun	America/Belem:(UTC-03:00) Belem
Africa/Freetown:(UTC+00:00) Freetown	America/Belize:(UTC-06:00) Belize
Africa/Gaborone:(UTC+02:00) Gaborone	America/Blanc-Sablon:(UTC-04:00) Blanc-Sablon
Africa/Harare:(UTC+02:00) Harare	America/Boa_Vista:(UTC-04:00) Boa Vista
Africa/Johannesburg:(UTC+02:00) Johannesburg	America/Bogota:(UTC-05:00) Bogota
Africa/Juba:(UTC+03:00) Juba	America/Boise:(UTC-07:00) Boise
Africa/Kampala:(UTC+03:00) Kampala	America/Cambridge_Bay:(UTC-07:00) Cambridge Bay
Africa/Khartoum:(UTC+03:00) Khartoum	America/Campo_Grande:(UTC-04:00) Campo Grande
Africa/Kigali:(UTC+02:00) Kigali	America/Cancun:(UTC-05:00) Cancun
Africa/Kinshasa:(UTC+01:00) Kinshasa	America/Caracas:(UTC-04:30) Caracas
Africa/Lagos:(UTC+01:00) Lagos	America/Cayenne:(UTC-03:00) Cayenne
Africa/Libreville:(UTC+01:00) Libreville	America/Cayman:(UTC-05:00) Cayman
Africa/Lome:(UTC+00:00) Lome	America/Chicago:(UTC-06:00) Chicago
Africa/Luanda:(UTC+01:00) Luanda	America/Chihuahua:(UTC-07:00) Chihuahua
Africa/Lubumbashi:(UTC+02:00) Lubumbashi	America/Costa_Rica:(UTC-06:00) Costa Rica
Africa/Lusaka:(UTC+02:00) Lusaka	America/Creston:(UTC-07:00) Creston
Africa/Malabo:(UTC+01:00) Malabo	America/Cuiaba:(UTC-04:00) Cuiaba
Africa/Maputo:(UTC+02:00) Maputo	America/Curacao:(UTC-04:00) Curacao
Africa/Maseru:(UTC+02:00) Maseru	America/Danmarkshavn:(UTC+00:00) Danmarkshavn
Africa/Mbabane:(UTC+02:00) Mbabane	America/Dawson:(UTC-08:00) Dawson
Africa/Mogadishu:(UTC+03:00) Mogadishu	America/Dawson_Creek:(UTC-07:00) Dawson Creek
Africa/Monrovia:(UTC+00:00) Monrovia	America/Denver:(UTC-07:00) Denver
Africa/Nairobi:(UTC+03:00) Nairobi	America/Detroit:(UTC-05:00) Detroit
Africa/Ndjamena:(UTC+01:00) Ndjamena	America/Dominica:(UTC-04:00) Dominica
Africa/Niamey:(UTC+01:00) Niamey	America/Edmonton:(UTC-07:00) Edmonton
Africa/Nouakchott:(UTC+00:00) Nouakchott	America/Eirunepi:(UTC-05:00) Eirunepi
Africa/Ouagadougou:(UTC+00:00) Ouagadougou	America/El_Salvador:(UTC-06:00) El Salvador
Africa/Porto-Novo:(UTC+01:00) Porto-Novo	America/Fortaleza:(UTC-03:00) Fortaleza
Africa/Sao_Tome:(UTC+00:00) Sao Tome	America/Glace_Bay:(UTC-04:00) Glace Bay
Africa/Tripoli:(UTC+02:00) Tripoli	America/Godthab:(UTC-03:00) Godthab
Africa/Tunis:(UTC+01:00) Tunis	America/Goose_Bay:(UTC-04:00) Goose Bay
Africa/Windhoek:(UTC+01:00) Windhoek	America/Grand_Turk:(UTC-04:00) Grand Turk
America/Adak:(UTC-10:00) Adak	America/Grenada:(UTC-04:00) Grenada
America/Anchorage:(UTC-09:00) Anchorage	

America/Guadeloupe:(UTC-04:00) Guadeloupe  
America/Guatemala:(UTC-06:00) Guatemala  
America/Guayaquil:(UTC-05:00) Guayaquil  
America/Guyana:(UTC-04:00) Guyana  
America/Halifax:(UTC-04:00) Halifax  
America/Havana:(UTC-05:00) Havana  
America/Hermosillo:(UTC-07:00) Hermosillo  
America/Indiana/Indianapolis:(UTC-05:00) Indianapolis  
America/Indiana/Knox:(UTC-06:00) Knox  
America/Indiana/Marengo:(UTC-05:00) Marengo  
America/Indiana/Petersburg:(UTC-05:00) Petersburg  
America/Indiana/Tell\_City:(UTC-06:00) Tell City  
America/Indiana/Vevay:(UTC-05:00) Vevay  
America/Indiana/Vincennes:(UTC-05:00) Vincennes  
America/Indiana/Winamac:(UTC-05:00) Winamac  
America/Inuvik:(UTC-07:00) Inuvik  
America/Iqaluit:(UTC-05:00) Iqaluit  
America/Jamaica:(UTC-05:00) Jamaica  
America/Juneau:(UTC-09:00) Juneau  
America/Kentucky/Louisville:(UTC-05:00) Louisville  
America/Kentucky/Monticello:(UTC-05:00) Monticello  
America/Kralendijk:(UTC-04:00) Kralendijk  
America/La\_Paz:(UTC-04:00) La Paz  
America/Lima:(UTC-05:00) Lima  
America/Los\_Angeles:(UTC-08:00) Los Angeles  
America/Lower\_Princes:(UTC-04:00) Lower Princes  
America/Maceio:(UTC-03:00) Maceio  
America/Managua:(UTC-06:00) Managua  
America/Manaus:(UTC-04:00) Manaus  
America/Marigot:(UTC-04:00) Marigot  
America/Martinique:(UTC-04:00) Martinique  
America/Matamoros:(UTC-06:00) Matamoros  
America/Mazatlan:(UTC-07:00) Mazatlan  
America/Menominee:(UTC-06:00) Menominee  
America/Merida:(UTC-06:00) Merida  
America/Metlakatla:(UTC-08:00) Metlakatla  
America/Mexico\_City:(UTC-06:00) Mexico City  
America/Miquelon:(UTC-03:00) Miquelon  
America/Moncton:(UTC-04:00) Moncton  
America/Monterrey:(UTC-06:00) Monterrey  
America/Montevideo:(UTC-03:00) Montevideo  
America/Montserrat:(UTC-04:00) Montserrat  
America/Nassau:(UTC-05:00) Nassau  
America/New\_York:(UTC-05:00) New York  
America/Nipigon:(UTC-05:00) Nipigon  
America/Nome:(UTC-09:00) Nome  
America/Noronha:(UTC-02:00) Noronha  
America/North\_Dakota/Beulah:(UTC-06:00) Beulah  
America/North\_Dakota/Center:(UTC-06:00) Center  
America/North\_Dakota/New\_Salem:(UTC-06:00) New Salem  
America/Ojinaga:(UTC-07:00) Ojinaga  
America/Panama:(UTC-05:00) Panama  
America/Pangnirtung:(UTC-05:00) Pangnirtung  
America/Paramaribo:(UTC-03:00) Paramaribo  
America/Phoenix:(UTC-07:00) Phoenix  
America/Port\_of\_Spain:(UTC-04:00) Port of Spain  
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America/Porto\_Velho:(UTC-04:00) Porto Velho  
America/Puerto\_Rico:(UTC-04:00) Puerto Rico  
America/Rainy\_River:(UTC-06:00) Rainy River  
America/Rankin\_Inlet:(UTC-06:00) Rankin Inlet  
America/Recife:(UTC-03:00) Recife  
America/Regina:(UTC-06:00) Regina  
America/Resolute:(UTC-06:00) Resolute  
America/Rio\_Branco:(UTC-05:00) Rio Branco  
America/Santa\_Isabel:(UTC-08:00) Santa Isabel

America/Santarem:(UTC-03:00) Santarem  
America/Santiago:(UTC-03:00) Santiago  
America/Santo\_Domingo:(UTC-04:00) Santo Domingo  
America/Sao\_Paulo:(UTC-03:00) Sao Paulo  
America/Scoresbysund:(UTC-01:00) Scoresbysund  
America/Sitka:(UTC-09:00) Sitka  
America/St\_Barthlemy:(UTC-04:00) St Barthelemy  
America/St\_Johns:(UTC-03:30) St Johns  
America/St\_Kitts:(UTC-04:00) St Kitts  
America/St\_Lucia:(UTC-04:00) St Lucia  
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America/Swift\_Current:(UTC-06:00) Swift Current  
America/Tegucigalpa:(UTC-06:00) Tegucigalpa  
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America/Tijuana:(UTC-08:00) Tijuana  
America/Toronto:(UTC-05:00) Toronto  
America/Tortola:(UTC-04:00) Tortola  
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America/Whitehorse:(UTC-08:00) Whitehorse  
America/Winnipeg:(UTC-06:00) Winnipeg  
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America/Yellowknife:(UTC-07:00) Yellowknife  
Antarctica/Casey:(UTC+08:00) Casey  
Antarctica/Davis:(UTC+07:00) Davis  
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Antarctica/Macquarie:(UTC+11:00) Macquarie  
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Antarctica/Rothera:(UTC-03:00) Rothera  
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Antarctica/Troll:(UTC+00:00) Troll  
Antarctica/Vostok:(UTC+06:00) Vostok  
Arctic/Longyearbyen:(UTC+01:00) Longyearbyen  
Asia/Aden:(UTC+03:00) Aden  
Asia/Almaty:(UTC+06:00) Almaty  
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Asia/Anadyr:(UTC+12:00) Anadyr  
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Asia/Dhaka:(UTC+06:00) Dhaka  
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Asia/Dubai:(UTC+04:00) Dubai  
Asia/Dushanbe:(UTC+05:00) Dushanbe  
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Asia/Hebron:(UTC+02:00) Hebron  
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Asia/Irkutsk:(UTC+08:00) Irkutsk  
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Asia/Jayapura:(UTC+09:00) Jayapura  
Asia/Jerusalem:(UTC+02:00) Jerusalem

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Atlantic/South\_Georgia:(UTC-02:00) South Georgia  
Atlantic/St\_Helena:(UTC+00:00) St Helena  
Atlantic/Stanley:(UTC-03:00) Stanley  
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Australia/Perth:(UTC+08:00) Perth  
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Europe/Guernsey:(UTC+00:00) Guernsey  
Europe/Helsinki:(UTC+02:00) Helsinki  
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Europe/Istanbul:(UTC+02:00) Istanbul  
Europe/Jersey:(UTC+00:00) Jersey  
Europe/Kaliningrad:(UTC+02:00) Kaliningrad  
Europe/Kiev:(UTC+02:00) Kiev  
Europe/Lisbon:(UTC+00:00) Lisbon  
Europe/Ljubljana:(UTC+01:00) Ljubljana  
Europe/London:(UTC+00:00) London  
Europe/Luxembourg:(UTC+01:00) Luxembourg  
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Europe/Monaco:(UTC+01:00) Monaco  
Europe/Moscow:(UTC+03:00) Moscow  
Europe/Oslo:(UTC+01:00) Oslo  
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Europe/San\_Marino:(UTC+01:00) San Marino  
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Europe/Skopje:(UTC+01:00) Skopje  
Europe/Sofia:(UTC+02:00) Sofia  
Europe/Stockholm:(UTC+01:00) Stockholm  
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Europe/Volgograd:(UTC+03:00) Volgograd  
Europe/Warsaw:(UTC+01:00) Warsaw  
Europe/Zagreb:(UTC+01:00) Zagreb  
Europe/Zaporozhye:(UTC+02:00) Zaporozhye  
Europe/Zurich:(UTC+01:00) Zurich  
Indian/Antananarivo:(UTC+03:00) Antananarivo  
Indian/Chagos:(UTC+06:00) Chagos  
Indian/Christmas:(UTC+07:00) Christmas  
Indian/Cocos:(UTC+06:30) Cocos  
Indian/Comoro:(UTC+03:00) Comoro  
Indian/Kerguelen:(UTC+05:00) Kerguelen  
Indian/Mahe:(UTC+04:00) Mahe  
Indian/Maldives:(UTC+05:00) Maldives  
Indian/Mauritius:(UTC+04:00) Mauritius



Indian/Mayotte:(UTC+03:00) Mayotte  
Indian/Reunion:(UTC+04:00) Reunion  
Pacific/Apia:(UTC+13:00) Apia  
Pacific/Auckland:(UTC+12:00) Auckland  
Pacific/Bougainville:(UTC+11:00) Bougainville  
Pacific/Chatham:(UTC+12:45) Chatham  
Pacific/Chuuk:(UTC+10:00) Chuuk  
Pacific/Easter:(UTC-05:00) Easter  
Pacific/Efate:(UTC+11:00) Efate  
Pacific/Enderbury:(UTC+13:00) Enderbury  
Pacific/Fakaofu:(UTC+13:00) Fakaofu  
Pacific/Fiji:(UTC+12:00) Fiji  
Pacific/Funafuti:(UTC+12:00) Funafuti  
Pacific/Galapagos:(UTC-06:00) Galapagos  
Pacific/Gambier:(UTC-09:00) Gambier  
Pacific/Guadalcanal:(UTC+11:00) Guadalcanal  
Pacific/Guam:(UTC+10:00) Guam  
Pacific/Honolulu:(UTC-10:00) Honolulu  
Pacific/Johnston:(UTC-10:00) Johnston  
Pacific/Kiritimati:(UTC+14:00) Kiritimati  
Pacific/Kosrae:(UTC+11:00) Kosrae  
Pacific/Kwajalein:(UTC+12:00) Kwajalein  
Pacific/Majuro:(UTC+12:00) Majuro  
Pacific/Marquesas:(UTC-09:30) Marquesas  
Pacific/Midway:(UTC-11:00) Midway  
Pacific/Nauru:(UTC+12:00) Nauru  
Pacific/Niue:(UTC-11:00) Niue  
Pacific/Norfolk:(UTC+11:30) Norfolk  
Pacific/Noumea:(UTC+11:00) Noumea  
Pacific/Pago\_Pago:(UTC-11:00) Pago Pago  
Pacific/Palau:(UTC+09:00) Palau  
Pacific/Pitcairn:(UTC-08:00) Pitcairn  
Pacific/Pohnpei:(UTC+11:00) Pohnpei  
Pacific/Port\_Moresby:(UTC+10:00) Port Moresby  
Pacific/Rarotonga:(UTC-10:00) Rarotonga  
Pacific/Saipan:(UTC+10:00) Saipan  
Pacific/Tahiti:(UTC-10:00) Tahiti  
Pacific/Tarawa:(UTC+12:00) Tarawa  
Pacific/Tongatapu:(UTC+13:00) Tongatapu  
Pacific/Wake:(UTC+12:00) Wake  
Pacific/Wallis:(UTC+12:00) Wallis