

**ePly API User Guide**

**ePly Services Inc.**

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# ePly API User Guide

## Summary

The ePly Application Programming Interface (API) allows clients to query the ePly system computer to computer to extract data. In order to make use of the API an API token will be required, which eply can provide upon request by emailing support ([support@eply.com](mailto:support@eply.com)).

Additional help describing parameter values, data types, etc. is available online here: <http://api.eply.com/>.

## Methods

Currently most of the methods provide read-only access of data. The one exception is where the check-in status can be updated by way of appending the 'direction' parameter to the 'Api/Guests' call. Future versions may support further data updating, as required by demand. Each of the API method calls will require an ePly system username, password and API Token. ePly can provide these upon request.

### **Api/Forms**

(ex: [api.eply.com/Api/Forms](http://api.eply.com/Api/Forms))

This method will return a list of every event Form that is accessible by the account credentials provided in the request.

### **Api/Forms/{id}**

(ex: [api.eply.com/Api/Forms/b71836dd-8eb2-4b42-b7e6-370e9eeba59](http://api.eply.com/Api/Forms/b71836dd-8eb2-4b42-b7e6-370e9eeba59))

This method will return information on a single event Form and requires the FormID parameter which should go in the place of {id}.

### **Api/RegGroups?FormID={FormID}**

(ex: [api.eply.com/Api/RegGroups?FormID= b71836dd-8eb2-4b42-b7e6-370e9eeba59](http://api.eply.com/Api/RegGroups?FormID=b71836dd-8eb2-4b42-b7e6-370e9eeba59))

This method will return a list of Additional Guest Groups (or Registration Groups) that exist on the event Form for which the required FormID parameter represents.

### **Api/Guests?GuestID={GuestID}&IsSubGuest={IsSubGuest}&Direction={Direction}**

(ex: [api.eply.com/Api/Guests?GuestID= b71836dd-8eb2-4b42-b7e6-370e9eeba59&IsSubGuest=1&Direction=1](http://api.eply.com/Api/Guests?GuestID=b71836dd-8eb2-4b42-b7e6-370e9eeba59&IsSubGuest=1&Direction=1))

This method will either Check-In or UnCheck-In a Registration or Registration Member. The IsSubGuest field indicates whether the GuestID represents a SubGuest (RegistrationMember) or not. The Direction parameter should be 1 if you wish to Check-In, and 0 if you wish to UnCheck-In.

### **Api/Guests?GuestID={GuestID}&IsSubGuest={IsSubGuest}**

(ex: [api.eply.com/Api/Guests?GuestID= b71836dd-8eb2-4b42-b7e6-370e9eeba59&IsSubGuest=1](http://api.eply.com/Api/Guests?GuestID=b71836dd-8eb2-4b42-b7e6-370e9eeba59&IsSubGuest=1))

This method will retrieve a single Registration or RegistrationMember and its Check-In information. The IsSubGuest field indicates whether the GuestID represents a SubGuest (RegistrationMember) or not.

### ***Api/Guests?FormID={FormID}***

*(ex: api.eply.com/Api/Guests?FormID= b71836dd-8eb2-4b42-b7e6-370e9eeba59)*

This method retrieves all Registrations and RegistrationMembers for the form with the provided FormID, along with their Check-In status and other Check-In fields.

### ***Api/Guests?FormID={FormID}&Query={Query}&getAllGroups={getAllGroups}***

*(ex: api.eply.com/Api/Guests?FormID= b71836dd-8eb2-4b42-b7e6-370e9eeba59&Query=John Doe john@doe.com&getAllGroups=1)*

This method retrieves registrant data and Check-in data for Registrations and RegistrationMembers based on the configuration of the Check-In report in the ePly System. The Query parameter allows you to filter the rows based on a search query of keywords. The query field can have multiple keywords separated by spaces, and the API will return registrations that contain all keywords provided. This filter ability will look for keywords in the query parameter in the First Name, Last Name, Email fields, as well as any of the additional fields added where you configure the Check-In report in the ePly System. The getAllGroups parameter indicates whether or not you want to override the Check-In Report configuration setting that indicates what groups to include in the report. If you set this to 1 then it will always return Registrations and RegistrationMembers. If this is set to 0 then it uses the configuration on Check-In report.

### ***Api/Custom?spName={spName}&parameters={parameters}***

This method can only be used to return a customized set of data. This would be only available by working with ePly to define and set up a custom Stored Procedure to return the required data.

#### *Parameters*

*spName (String) : example: myCustomSP*

*parameters (String) : parameters (if required) would be specific to the stored procedure definition. Contact ePly for more information.*

### ***Api/Payables/{id}***

*(ex: api.eply.com/Api/Payables/1238097)*

This method will return information on a single registration Payable and requires the RegistrationID parameter which should go in the place of {id}

### ***Api/Payables?RegistrationID={RegistrationID}***

*(ex: api.eply.com/Api/Payables?RegistrationID= c1b6e48c-6694-402c-a09e-1e9151d46da6)*

This method will return a list of Payables for the registration for which the required RegistrationID parameter represents.

### ***Api/Registrations/{id}***

*(ex: api.eply.com/Api/Registrations/c1b6e48c-6694-402c-a09e-1e9151d46da6)*

This method will return information on a single Registration and requires the RegistrationID parameter which should go in the place of {id}.

### ***Api/Registrations?FormID={FormID}***

*(ex: api.eply.com/Api/Registrations?FormID=b71836dd-8eb2-4b42-b7e6-370e9eeba59)*

This method will return a list of Registrations that exist on the event Form for which the required FormID parameter represents.

***Api/Registrations?FormID={FormID}&Query={Query}***

*(ex: api.eply.com/Api/Registrations?FormID=b71836dd-8eb2-4b42-b7e6-370e9eeba59&Query=John Doe john@doe.com)*

This method will return All registrations that exist on the event form for which the required FormID parameter represents. This method allows for a query parameter that will filter the list based on keywords in the query. The query field can have multiple keywords separated by spaces, and the API will return registrations that contain all keywords provided. The keywords will be search for in the First Name, Last Name, Email, Company, Barcode Number, and all other response fields.

***Api/RegistrationMembers/{id}***

*(ex: api.eply.com/Api/RegistrationMembers/135b2a99-0c48-43d6-acc7-bf9cff141f03)*

This method will return information on a single Registration Member and requires the RegistrationMemberID parameter which should go in the place of {id}.

***Api/RegistrationMembers?FormID={FormID}***

*(ex: api.eply.com/Api/RegistrationMembers?FormID=b71836dd-8eb2-4b42-b7e6-370e9eeba59)*

This method will return a list of Registration Members that exist on the event Form for which the required FormID parameter represents.

***Api/RegistrationMembers?RegistrationGroupID={RegistrationGroupID}***

*(ex: api.eply.com/Api/RegistrationMembers?RegistrationGroupID=11234)*

This method will return a list of Registration Members that were created in a Registration Group with for which the required parameter RegistrationGroupID represents.

***Api/RegistrationMembers?RegistrationID={RegistrationID}***

*(ex: api.eply.com/Api/RegistrationMembers?RegistrationID=11234)*

This method will return a list of registration members for the provided RegistrationID.

***Api/Transactions/{id}***

*(ex: api.eply.com/Api/Transactions/192837)*

This method will return information on a single registration transaction and requires the TransactionID parameter which should go in the place of {id}.

***Api/Transactions?RegistrationID={RegistrationID}***

*(ex: api.eply.com/Api/Transactions?RegistrationID= c1b6e48c-6694-402c-a09e-1e9151d46da6)*

This method will return a list of registration Transactions for the registration for which the required RegistrationID parameter represents.

## Implementation

The following are examples on how to connect to the API using C#.NET, VB.Net and JQuery.

### C#.NET

```
using System.Web;
using System.Net;

HttpWebRequest webRequest = (HttpWebRequest)WebRequest.Create("https://api.eply.com/api/{METHOD NAME +
PARAMETERS HERE}");
webRequest.Method = "GET";
webRequest.Headers.Add("apiToken", "{YOUR API TOKEN}");
webRequest.Headers.Add("username", "{YOUR USER NAME}");
webRequest.Headers.Add("password", "{YOUR PASSWORD}");
webRequest.Accept = "application/xml"; // return xml
//webRequest.Accept = "application/json"; // return json
WebResponse response = webRequest.GetResponse();
Stream s = response.GetResponseStream();
StreamReader sr = new StreamReader(s);
string theResponse = sr.ReadToEnd();
APIresponse.Text = theResponse;
```

### VB.NET

```
Imports System.Web
Imports System.Net

Dim webRequest As HttpWebRequest = DirectCast(WebRequest.Create("https://api.eply.com/api/{METHOD NAME
+ PARAMETERS HERE}"), HttpWebRequest)
webRequest.Method = "GET"
webRequest.Headers.Add("apiToken", "{YOUR API TOKEN}")
webRequest.Headers.Add("username", "{YOUR USERNAME}")
webRequest.Headers.Add("password", "{YOUR PASSWORD}")
webRequest.Accept = "application/xml"
' or use ("application/json")

Dim response As WebResponse = webRequest.GetResponse()
Dim s As Stream = response.GetResponseStream()
Dim sr As New StreamReader(s)
Dim theResponse As String = sr.ReadToEnd()
```

## EXAMPLES

To retrieve all the registrants in formID=8104f4f8-14ab-41bc-a3b2-7e4229803b1a.

Note that you will need to insert a FormID for a form currently set up in the ePly system under your client. In addition, you will need to specify a valid apiToken provided by ePly, along with correct username/password.

### C#.NET

APITest.aspx page

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="APITest.aspx.cs" Inherits="Testing_TestPost1"
%>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
```



## Revision History

V1.0	January/2013	GH	First Created
V1.1	August/2013	TH	Added improved examples
V1.2	September/2013	TH	Add documentation for API/Custom?spName
V1.3	September/2014	TH	Change to use <a href="https://api.eply.com">https://api.eply.com</a> , instead of <a href="https://www.eply.com:5378/api">https://www.eply.com:5378/api</a>
V1.4	November/2014	GH	Added Guests Controller for Checking in guests, and retrieving guest information
V1.5	November/2014	TH	Renamed from 'ePly API Help Documentation' to 'ePly API User Guide'
V1.6	July/2015	TH	Re-arranged methods to match online version. Adding missing methods.