

# Naylor AMS API Developer Documentation

---

Date: Friday, July 24, 2015

API Version: 1.0

Document Version: 1.0

## Table of Contents

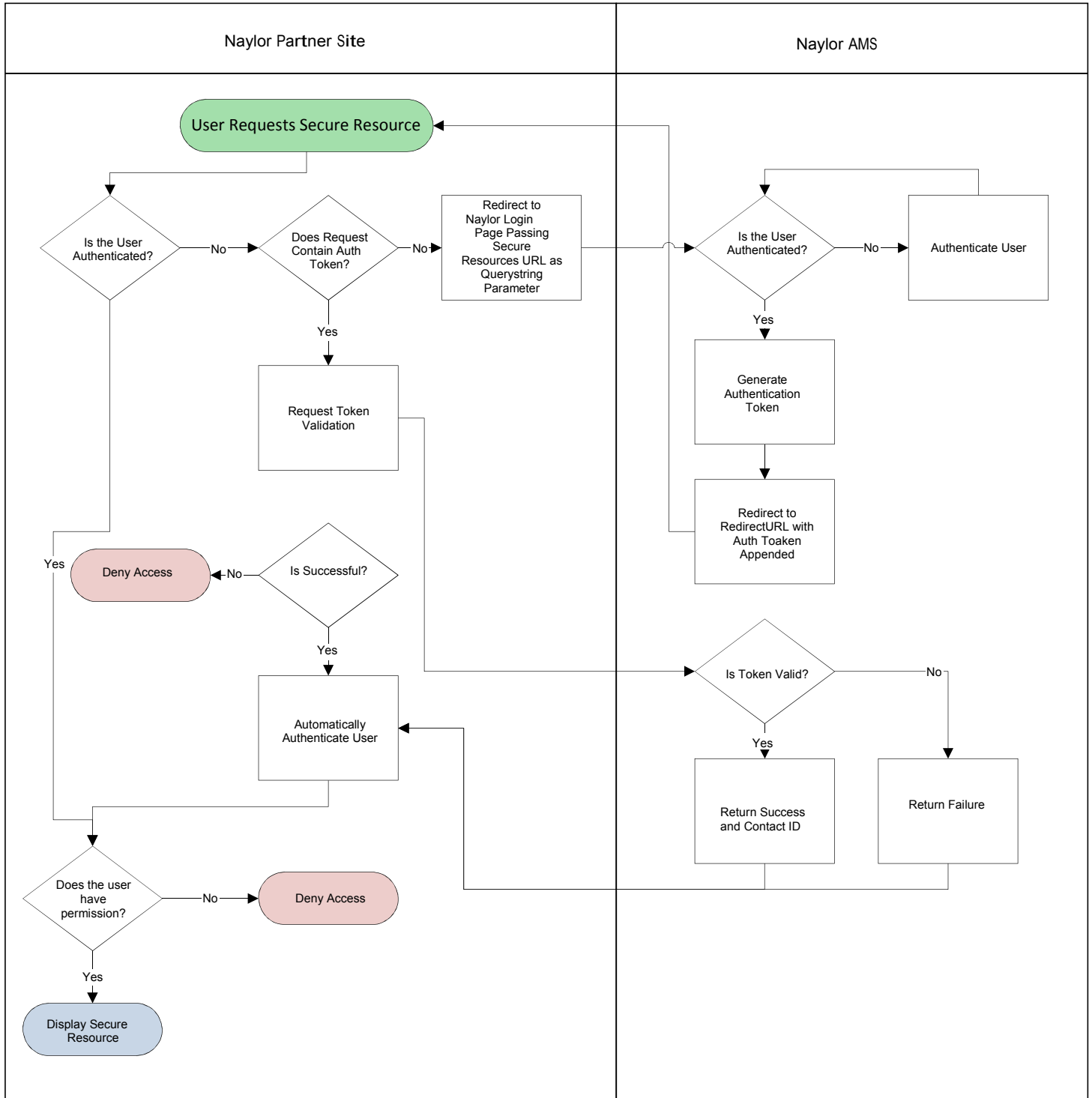
Document Purpose .....	2
Single Sign-On (SSO).....	3
Application Programming Interfaces (APIs).....	4
<b>Method:</b> ValidateAuthenticationToken.....	4
<b>Method:</b> GetBasicMemberInfo.....	5
<b>Method:</b> GetAllMembers.....	7
<b>Method:</b> GetAllMemberTypes.....	8
<b>Method:</b> GetAllOrganizations .....	9
<b>Method:</b> GetChangedMembers.....	10
<b>Method:</b> GetChangedOrganization .....	11
<b>Method:</b> GetCommunityGroups.....	12
<b>Method:</b> GetCommunityGroupMembers.....	13
<b>Method:</b> GetEvents.....	14
<b>Method:</b> GetEventInfo.....	15
<b>Method:</b> GetEventRegistrants .....	17
<b>Method:</b> GetMemberInfo .....	18
<b>Method:</b> GetMemberKeyUsingEmail.....	22
<b>Method:</b> AuthenticateUser.....	23
<b>Method:</b> GetOrganizationInfo .....	24
<b>Method:</b> GetCommunityGroupMembers.....	26
<b>Method:</b> GetSecurityGroups.....	27
<b>Method:</b> GetServerTime .....	29
Definitions.....	30
Notes.....	30

## Document Purpose

The purpose of this document is to provide a Naylor Partner (3rd party service provider) with an overview of implementing Timberlake's AMS-centric SSO solution. Knowledge of REST API calling is assumed in this document.

## Single Sign-On (SSO)

When integrating Timberlake's Association Management System (AMS) with a Partner's solution which provides its own interfaces that interact directly with the user (member), a Single-Sign-On solution is typically the first step. The goal is for the user to login once and have a near-seamless experience on both websites without the user having to login a second time. While Naylor can integrate with other existing SSO solutions on an as-needed basis, we provide this solution as an AMS-centric login point. The Naylor SSO solution is token-based, providing a secure cross-domain capable solution. The login process works by using the Naylor AMS login page for ALL authentication, and providing tools to allow the 3rd party site to verify the user's identity. The following diagram shows the authentication workflow.



The SSO process begins when a user attempts to visit a secure resource (page only available to authenticated users) on the partner's website to which the current user is not yet been authenticated. The query string of the request is analyzed to determine the presence of a Naylor-generated authentication token. If such a token exists it is validated (SEE #3 below). If no token is present, the user is then redirected to the Naylor AMS login page, with the current page URL encoded as a query string parameter, such as:

<http://www.baseurl.com/login.asp?redirectURL=http://www.partnersite.com/secureresource.html>

Note: The specific URL of the Naylor AMS login page varies per customer and will be provided by Naylor on a case-by-case basis.

If the user is not yet logged into the Naylor AMS, they are prompted to do so. Upon successful login, the user is redirected back to the partner site using the URL specified in the redirectURL parameter, with an additional value appended to the query string: AuthenticationToken. So a sample of the redirection would look like:

<http://partnersite.com/secureresource.html?AuthenticationToken=XXXXXXXXXXXXXXXXXXXXX>

The partner site utilizes the ValidateAuthenticationToken method of the Naylor API, passing the partner-specific securityKey and the AuthenticationToken returned in step 2. The Naylor system then authenticates the validity of the token, and returns a result. A NULL or blank string return indicates the validation was not successful, otherwise the unique Naylor Contact ID is returned.

At this point (optionally) the partner may choose to retrieve additional information about the user by utilizing the GetBasicMemberInfo method of the API which will return basic information on the member.

Based on the information collected on the Member, the Partner site can then choose to locally authenticate the user into the partner system, and decide whether to grant access to the originally requested resource.

## Application Programming Interfaces (APIs)

All API Methods can be called using HTTPS GET or POST requests. The parameters may be passed as either query string parameters or form post submissions. The responses are returned in a standard XML format as outlined in each method's documentation.

Prior to development of any SSO or API integration utilizing Timberlake's API, the Partner will receive two pieces of information from Naylor, Security Key and Base URL. Using an invalid security key will result in the following error:

```
<?xml version="1.0" encoding="utf-8"?>
<Error>
<Code>InvalidSecurityKey</Code>
<Message>The security key passed is invalid. Please verify the key. </Message>
</Error>
```

### Method: ValidateAuthenticationToken

This method returns unique ContactID if the token provided is valid, otherwise it returns NULL. This method is used to validate the authentication token as part of the token based single sign on process.

- REST Call: <https://www.baseurl.com/api/ValidateAuthenticationToken>

#### Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service
<b>token</b>	Yes	Authentication token issued once the user authentication on the Naylor AMS has been completed.

#### Request Samples:

REST Call: <https://www.baseurl.com/api/ValidateAuthenticationToken/?securityKey=xxx&token=xxx>

#### Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/ValidateAuthenticationToken" method="GET">
<input type="hidden" name="securityKey" value="xxx">
<input type="hidden" name="token" value="xxx">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

#### Response Elements:

Field Name	Type	Size	Description
<b>ValidateAuthenticationTokenResult</b>	Number	-	Unique user identification number

#### Response Sample:

##### Valid Token:

```
<?xml version="1.0"?>
<ValidateAuthenticationToken>
<ValidateAuthenticationTokenResult>12345</ValidateAuthenticationTokenResult>
</ValidateAuthenticationToken>
```

##### Invalid Token:

```
<?xml version="1.0"?>
<ValidateAuthenticationToken>
<ValidateAuthenticationTokenResult></ValidateAuthenticationTokenResult>
</ValidateAuthenticationToken>
```

#### Method: GetBasicMemberInfo

This method returns basic information about the specified contact. Information in the response includes member name, title, address, phone number, member type and organization. Use the GetAllMemberTypes

- API Service URL I: <https://www.baseurl.com/api/GetBasicMemberInfo>

#### Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service

<b>ContactID</b>	Yes	ID of a contact in the Naylor database.
------------------	-----	---

Request Samples:

REST Call: <https://www.baseurl.com/api/GetBasicMemberInfo/?securityKey=xxx&ContactID=12345>

Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetBasicMemberInfo" method="GET">
<input type="hidden" name="securityKey" value="xxx">
<input type="hidden" name="ContactID" value="12345">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

Response Elements:

Field Name	Type	Size	Description
<b>ExpirationDate</b>	Date	-	
<b>EmailAddress</b>	Text	-	
<b>FirstName</b>	Text	30	
<b>MiddleName</b>	Text	30	
<b>LastName</b>	Text	30	
<b>Title</b>	Text	100	
<b>Address1</b>	Text	70	
<b>Address2</b>	Text	50	
<b>City</b>	Text	50	
<b>State</b>	Text	2	
<b>Zip</b>	Text	20	
<b>Country</b>	Text	5	
<b>Phone</b>	Text	20	
<b>MemberType</b>	Text	150	
<b>MemberTypeID</b>	Number	-	
<b>OrganizationName</b>	Text	100	
<b>OrganizationID</b>	Number	-	

## Response Sample:

### Valid ContactID:

```
<?xml version="1.0"?>
<GetBasicMemberInfo>
  <ExpirationDate>7/21/2015</ExpirationDate>
  <EmailAddress>tim@membershipsoftware.org</EmailAddress>
  <FirstName>Tim</FirstName>
  <MiddleName></MiddleName>
  <LastName>Lake</LastName>
  <Title></Title>
  <Address1>123 Some Street</Address1>
  <Address2></Address2>
  <City>Hunt Valley</City>
  <State>MD</State>
  <Zip>21065</Zip>
  <Country>USA</Country>
  <Phone>410-891-2400</Phone>
  <MemberType>Regular Individual member</MemberType>
  <MemberTypeID>78</MemberTypeID>
  <OrganizationName>Naylor Membership Software</OrganizationName>
  <OrganizationID>316</OrganizationID>
</GetBasicMemberInfo>
```

## Method: GetAllMembers

This method returns basic information about all members in the database.

- API Service URL: <https://www.baseurl.com/api/GetAllMembers>

### Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service
<b>joinstartdate</b>	No	
<b>joinenddate</b>	No	
<b>renewstartdate</b>	No	
<b>renewenddate</b>	No	
<b>expstartdate</b>	No	
<b>expenddate</b>	No	
<b>updatestartdate</b>	No	
<b>updateenddate</b>	No	
<b>membertypeid</b>	No	
<b>orgid</b>	No	

### Request Samples:

REST Call: <https://www.baseurl.com/api/GetAllMembers/?securityKey=xxx>

### Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetAllMembers" method="GET">
<input type=hidden name="securityKey" value="xxx">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

### Response Elements:

Field Name	Type	Size	Description
<b>Member</b>	<b>Class Array</b>	-	
<b>MemberKey</b>	Number	-	

### Response Sample:

#### Valid Response:

```
<?xml version="1.0"?>
<GetAllMembers>
  <Member>
    <MemberKey>1</MemberKey>
  </Member>
  <Member>
    <MemberKey>2</MemberKey>
  </Member>
  <Member>
    <MemberKey>4</MemberKey>
  </Member>
  <Member>
    <MemberKey>5</MemberKey>
  </Member>
</GetAllMembers>
```

### Method: GetAllMemberTypes

This method returns basic information about all members in the database.

- API Service URL: <https://www.baseurl.com/api/GetAllMemberTypes>

### Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service

### Request Samples:

REST Call: <https://www.baseurl.com/api/GetAllMemberTypes/?securityKey=xxx>



### Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetAllMemberTypes" method="GET">
<input type=hidden name="securityKey" value="xxx">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

### Response Elements:

Field Name	Type	Size	Description
<b>MemberTypes</b>	<b>Class Array</b>	-	
<b>MemberTypeID</b>	Number	-	
<b>MemberType</b>	Text	150	

### Response Sample:

#### Valid Response:

```
<?xml version="1.0"?>
<GetAllMemberTypes>
  <MemberTypes>
    <MemberTypeID>55</MemberTypeID>
    <MemberType>Free Member Principal</MemberType>
  </MemberTypes>
  <MemberTypes>
    <MemberTypeID>58</MemberTypeID>
    <MemberType>Full Membership (1 year)</MemberType>
  </MemberTypes>
  <MemberTypes>
    <MemberTypeID>59</MemberTypeID>
    <MemberType>Full Membership (2 years)</MemberType>
  </MemberTypes>
  <MemberTypes>
    <MemberTypeID>60</MemberTypeID>
    <MemberType>Full Membership (3 years)</MemberType>
  </MemberTypes>
  <MemberTypes>
    <MemberTypeID>34</MemberTypeID>
    <MemberType>Gold Membership Level (Corp)</MemberType>
  </MemberTypes>
</GetAllMemberTypes>
```

### Method: GetAllOrganizations

This method returns basic information about all members in the database.

- API Service URL: <https://www.baseurl.com/api/GetAllOrganizations>

### Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service

## Request Samples:

REST Call: <https://www.baseurl.com/api/GetAllOrganizations/?securityKey=xxx>

## Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetAllOrganizations" method="GET">
<input type="hidden" name="securityKey" value="xxx">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

## Response Elements:

Field Name	Type	Size	Description
<b>Organizations</b>	<b>Class Array</b>	-	
<b>OrgID</b>	Text	-	
<b>Organization</b>	Text	100	

## Response Sample:

### Valid Response:

```
<?xml version="1.0"?>
<GetAllOrganizations>
  <Organizations>
    <OrgID>134</OrgID>
    <Organization>a</Organization>
  </Organizations>
  <Organizations>
    <OrgID>149</OrgID>
    <Organization>abcds</Organization>
  </Organizations>
  <Organizations>
    <OrgID>40</OrgID>
    <Organization>another test555</Organization>
  </Organizations>
  <Organizations>
    <OrgID>182</OrgID>
    <Organization>asd</Organization>
  </Organizations>
</GetAllOrganizations>
```

## Method: GetChangedMembers

This method returns basic information about all members in the database.

- API Service URL: <https://www.baseurl.com/api/GetChangedMembers>

## Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service
<b>updatedSince</b>	Yes	

## Request Samples:

REST Call: <https://www.baseurl.com/api/GetChangedMembers/?securityKey=xxx&updatedSince=7/27/2015>

## Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetChangedMembers" method="GET">
<input type="hidden" name="securityKey" value="xxx">
<input type="hidden" name="updatedSince" value="7/27/2015">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

## Response Elements:

Field Name	Type	Size	Description
<b>ChangedMember</b>	<b>Class Array</b>	-	
<b>MemberKey</b>	Number	-	
<b>LastUpdated</b>	Date/Time	-	

## Response Sample:

### Valid Response:

```
<?xml version="1.0"?>
<GetChangedMembers>
  <ChangedMember>
    <MemberKey>12568</MemberKey>
    <LastUpdated>7/24/2015 11:37:06 AM</LastUpdated>
  </ChangedMember>
  <ChangedMember>
    <MemberKey>12569</MemberKey>
    <LastUpdated>7/24/2015 1:23:33 PM</LastUpdated>
  </ChangedMember>
  <ChangedMember>
    <MemberKey>12570</MemberKey>
    <LastUpdated>7/24/2015 1:26:59 PM</LastUpdated>
  </ChangedMember>
  <ChangedMember>
    <MemberKey>12571</MemberKey>
    <LastUpdated>7/24/2015 3:15:15 PM</LastUpdated>
  </ChangedMember>
</GetChangedMembers>
```

## Method: GetChangedOrganization

This method returns basic information about all members in the database.

- API Service URL: <https://www.baseurl.com/api/GetChangedOrganization>

## Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service
<b>updatedSince</b>	Yes	

## Request Samples:

REST Call: <https://www.baseurl.com/api/GetChangedOrganization/?securityKey=xxx&updatedSince=7/27/2015>

## Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetChangedOrganization" method="GET">
<input type="hidden" name="securityKey" value="xxx">
<input type="hidden" name="updatedSince" value="7/27/2015">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

## Response Elements:

Field Name	Type	Size	Description
<b>ExpirationDate</b>	<b>Class Array</b>	-	
<b>OrgKey</b>	Number	-	
<b>LastUpdated</b>	Date/Time	-	

## Response Sample:

### Valid Response:

```
<?xml version="1.0"?>
<GetChangedOrganizations>
  <ChangedOrganization>
    <OrgKey>27</OrgKey>
    <LastUpdated>7/27/2015 2:40:28 AM</LastUpdated>
  </ChangedOrganization>
  <ChangedOrganization>
    <OrgKey>213</OrgKey>
    <LastUpdated>7/27/2015 11:19:14 AM</LastUpdated>
  </ChangedOrganization>
</GetChangedOrganizations>
```

## Method: GetCommunityGroups

This method returns basic information about all members in the database.

- API Service URL: <https://www.baseurl.com/api/GetCommunityGroups>

## Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service

## Request Samples:

REST Call: <https://www.baseurl.com/api/GetCommunityGroups/?securityKey=xxx>

### Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetCommunityGroups" method="GET">
<input type=hidden name="securityKey" value="xxx">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

### Response Elements:

Field Name	Type	Size	Description
<b>GroupInfo</b>	<b>Class Array</b>	-	
<b>GroupKey</b>	Number	-	
<b>GroupName</b>	Text	200	
<b>GroupType</b>	Text	150	

### Response Sample:

#### Valid Response:

```
<?xml version="1.0"?>
<GetCommunityGroups>
  <GroupInfo>
    <GroupKey>23</GroupKey>
    <GroupName>Board of Directors</GroupName>
    <GroupType>Committees</GroupType>
  </GroupInfo>
  <GroupInfo>
    <GroupKey>28</GroupKey>
    <GroupName>Email Blast Test Committee</GroupName>
    <GroupType>Committees</GroupType>
  </GroupInfo>
</GetCommunityGroups>
```

### Method: GetCommunityGroupMembers

This method returns basic information about all members in the database.

- API Service URL: <https://www.baseurl.com/api/GetCommunityGroupMembers>

### Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service
<b>GroupKey</b>	Yes	This is the unique group identifier that is returned in <a href="#">GetCommunityGroups</a> API

### Request Samples:

REST Call: <https://www.baseurl.com/api/GetCommunityGroupMembers/?securityKey=xxx&GroupKey=23>

### Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetCommunityGroupMembers" method="GET">
<input type=hidden name="securityKey" value="xxx">
<input type=hidden name="GroupKey" value="23">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

### Response Elements:

Field Name	Type	Size	Description
<b>GroupMember</b>	<b>Class Array</b>	-	
<b>EndDate</b>	Date	-	
<b>MemberKey</b>	Number	-	
<b>MemberRole</b>	Text	150	
<b>SinceDate</b>	Date	-	
<b>StartDate</b>	Date	-	

### Response Sample:

#### Valid Response:

```
<?xml version="1.0"?>
<GetCommunityGroupMembers>
  <GroupMember>
    <EndDate>01/01/2016</EndDate>
    <MemberKey>25</MemberKey>
    <MemberRole></MemberRole>
    <SinceDate></SinceDate>
    <StartDate>12/17/2014</StartDate>
  </GroupMember>
  <GroupMember>
    <EndDate>01/01/2016</EndDate>
    <MemberKey>12370</MemberKey>
    <MemberRole></MemberRole>
    <SinceDate></SinceDate>
    <StartDate>02/20/2015</StartDate>
  </GroupMember>
</GetCommunityGroupMembers>
```

### Method: GetEvents

This method returns basic information about all members in the database.

- API Service URL: <https://www.baseurl.com/api/GetEvents>

### Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service

### Request Samples:

REST Call: <https://www.baseurl.com/api/GetEvents/?securityKey=xxx>

## Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetEvents" method="GET">
<input type=hidden name="securityKey" value="xxx">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

## Response Elements:

Field Name	Type	Size	Description
<b>EventListItem</b>	<b>Class Array</b>	-	
<b>EventKey</b>	Number	-	
<b>Title</b>	Text	360	

## Response Sample:

### Valid Response:

```
<?xml version="1.0"?>
<GetEvents>
  <EventListItem>
    <EventKey>57</EventKey>
    <Title>June Training</Title>
  </EventListItem>
  <EventListItem>
    <EventKey>63</EventKey>
    <Title>March Luncheon</Title>
  </EventListItem>
  <EventListItem>
    <EventKey>66</EventKey>
    <Title>Spring Board Meeting</Title>
  </EventListItem>
  <EventListItem>
    <EventKey>64</EventKey>
    <Title>August Seminar</Title>
  </EventListItem>
</GetEvents>
```

## Method: GetEventInfo

This method returns basic information about all members in the database.

- API Service URL: <https://www.baseurl.com/api/GetEventInfo>

## Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service
<b>EventKey</b>	Yes	This is the unique event identifier that is returned in <a href="#">GetEvents</a> API

## Request Samples:

REST Call: <https://www.baseurl.com/api/GetEventInfo/?securityKey=xxx&EventKey=66>

## Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetEventInfo" method="GET">
<input type=hidden name="securityKey" value="xxx">
<input type=hidden name="EventKey" value="66">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

## Response Elements:

Field Name	Type	Size	Description
<b>AddressLine1</b>	Text	-	Empty Place Holder
<b>AddressLine2</b>	Text	-	Empty Place Holder
<b>AddressLine3</b>	Text	-	Empty Place Holder
<b>City</b>	Text	-	Empty Place Holder
<b>Country</b>	Text	-	Empty Place Holder
<b>Description</b>	Text	-	This is a SQL text field, possible 2.14 billion characters
<b>DetailUrl</b>	Text	255	
<b>EarlyRegistrationEndDate</b>	Date	-	
<b>EndDate</b>	Date	-	
<b>eventKey</b>	Number	-	
<b>category</b>	Number	-	
<b>EventType</b>	Text	255	
<b>IsActive</b>	Text	255	This is a pipe " " delimited string of member types that are allowed to register for the event.
<b>PostalCode</b>	Text	-	Empty Place Holder
<b>RegistrationURL</b>	Text	255	
<b>RegularRegistrationEndDate</b>	Date	-	
<b>StartDate</b>	Date	-	
<b>StateProvince</b>	Text	-	Empty Place Holder
<b>Title</b>	Text	360	



## Response Sample:

### Valid Response:

```
<?xml version="1.0"?>
<GetEventInfo>
  <AddressLine1/>
  <AddressLine2/>
  <AddressLine3/>
  <City/>
  <Country/>
  <Description>The 2015 Spring Board meeting is happening!</Description>
  <DetailUrl>http://www.upcea.org/calendar_day.asp?date=03/25/2015&event=66</DetailUrl>
  <EarlyRegistrationEndDate/>
  <EndDate>03/25/2015</EndDate>
  <eventkey>66</eventkey>
  <category>0</category>
  <EventType/>
  <IsActive>|1|31|32|33|34|35|36|37|38|39|40|43|44|45|46|47|48|49|51|52|53|54|55|</IsActive>
  <PostalCode/>
  <RegistrationURL>
  http://www.upcea.org/calendar_day.asp?date=03/25/2015&event=66
  </RegistrationURL>
  <RegularRegistrationEndDate/>
  <StartDate>3/25/2015 11:59:00 PM</StartDate>
  <StateProvince/>
  <Title>Spring Board Meeting</Title>
</GetEventInfo>
```

## Method: GetEventRegistrants

This method returns basic information about all members in the database.

- API Service URL: <https://www.baseurl.com/api/GetEventRegistrants>

### Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service
<b>EventKey</b>	Yes	This is the unique event identifier that is returned in <a href="#">GetEvents</a> API
<b>RegistrationStartDate</b>	No	
<b>RegistrationEndDate</b>	No	

### Request Samples:

REST Call: <https://www.baseurl.com/api/GetEventInfo/?securityKey=xxx&EventKey=66>

### Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetEventRegistrants" method="GET">
<input type="hidden" name="securityKey" value="xxx">
<input type="hidden" name="EventKey" value="66">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

## Response Elements:

Field Name	Type	Size	Description
<b>Registrant</b>	<b>Class Array</b>	-	
<b>RegistrantKey</b>	Number	-	
<b>MemberKey</b>	Number	-	
<b>RegistrationDate</b>	Date	-	

## Response Sample:

### Valid Response:

```
<?xml version="1.0"?>
<GetEventRegistrants>
  <Registrant>
    <RegistrantKey>1501</RegistrantKey>
    <MemberKey></MemberKey>
    <RegistrationDate>7/24/2015 3:35:16 PM</RegistrationDate>
  </Registrant>
  <Registrant>
    <RegistrantKey>1504</RegistrantKey>
    <MemberKey>12383</MemberKey>
    <RegistrationDate>7/27/2015 10:54:08 AM</RegistrationDate>
  </Registrant>
  <Registrant>
    <RegistrantKey>1510</RegistrantKey>
    <MemberKey>54</MemberKey>
    <RegistrationDate>7/28/2015 12:23:05 AM</RegistrationDate>
  </Registrant>
  <Registrant>
    <RegistrantKey>1511</RegistrantKey>
    <MemberKey>12423</MemberKey>
    <RegistrationDate>7/29/2015 11:23:41 AM</RegistrationDate>
  </Registrant>
</GetEventRegistrants>
```

## Method: GetMemberInfo

This method returns basic information about all members in the database.

- API Service URL: <https://www.baseurl.com/api/GetMemberInfo>

## Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service
<b>MemberKey</b>	Yes	This is the unique member identifier that is returned in <a href="#">ValidateAuthenticationToken</a> and <a href="#">GetAllMembers</a> APIs.

## Request Samples:

REST Call: <https://www.baseurl.com/api/GetMemberInfo/?securityKey=xxx&MemberKey=12345>

Form Post:

```

<html>
<body>
<form action="http://www.baseurl.com/api/GetMemberInfo" method="GET">
<input type=hidden name="securityKey" value="xxx">
<input type=hidden name="MemberKey" value="12345">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>

```

Response Elements:

Field Name	Type	Size	Description
<b>Addresses</b>	<b>Class</b>	-	
<b>MemberAddress</b>	<b>Class</b>	-	
<b>AddressKey</b>	Text	20	Contact_[MemberKey]
<b>AddressLine1</b>	Text	70	
<b>AddressLine2</b>	Text	50	
<b>AddressLine3</b>	Text	-	Empty Place Holder
<b>AddressType</b>	Text	15	Always "Contact Address"
<b>City</b>	Text	50	
<b>Country</b>	Text	5	
<b>IsPreferredBill</b>	True/False	-	
<b>IsPreferredMail</b>	True/False	-	Always "False"
<b>Phones</b>	<b>Class</b>	-	
<b>MemberPhone</b>	<b>Class Array</b>	-	
<b>PhoneNumber</b>	Text	20	
<b>PhoneType</b>	Text	7	Primary/Mobile/Fax
<b>PostalCode</b>	Text	20	
<b>StateProvince</b>	Text	2	
<b>CommunityGroups</b>	<b>Class</b>	-	
<b>MemberGroup</b>	<b>Class Array</b>	-	
<b>EndDate</b>	Date	-	
<b>GroupKey</b>	Number	-	Unique ID for Group
<b>GroupName</b>	Text	200	
<b>GroupType</b>	Text	150	
<b>MemberRole</b>	Text	150	
<b>SinceDate</b>	Date	-	
<b>StartDate</b>	Date	-	
<b>CustomDemographics</b>	Text	-	Empty Place Holder
<b>DateOfBirth</b>	Date	-	Empty Place Holder
<b>Designation</b>	Text	-	Empty Place Holder
<b>EmailAddress</b>	Text	50	
<b>Ethnicity</b>	Text	-	Empty Place Holder
<b>EventRegistrations</b>	<b>Class</b>	-	
<b>MemberEvent</b>	<b>Class Array</b>	-	
<b>EventKey</b>	Number	-	Unique Event ID
<b>EventTitle</b>	Text	360	
<b>RegistrationDate</b>	Date	-	

<b>ExcludeFromDirectory</b>	True/False	-	
<b>FirstName</b>	Text	30	
<b>Gender</b>	Text	-	Empty Place Holder
<b>InformalName</b>	Text	-	Empty Place Holder
<b>IsActive</b>	True/False	-	
<b>IsMember</b>	True/False	-	Always "True"
<b>IsOrganization</b>	True/False	-	
<b>LastName</b>	Text	30	
<b>MemberID</b>	Number	-	Unique Member ID
<b>MemberKey</b>	Number	-	Unique Member ID
<b>MemberType</b>	Text	150	
<b>MiddleName</b>	Text	30	
<b>OrganizationName</b>	Text	100	
<b>ParentMemberKey</b>	Number	-	Unique Organization Member ID
<b>Phones</b>	<b>Class</b>	-	
<b>MemberPhone</b>	<b>Class Array</b>	-	
<b>PhoneNumber</b>	Text	20	
<b>PhoneType</b>	Text	7	Primary/Mobile/Fax
<b>Prefix</b>	Text	10	
<b>SecurityGroups</b>	<b>Class</b>	-	
<b>MemberGroup</b>	<b>Class</b>	-	
<b>EndDate</b>	Date	-	
<b>GroupKey</b>	Number	-	Unique ID for Group
<b>GroupName</b>	Text	200	
<b>GroupType</b>	Text	150	
<b>MemberRole</b>	Text	150	
<b>SinceDate</b>	Date	-	
<b>StartDate</b>	Date	-	
<b>Suffix</b>	Text	10	
<b>Title</b>	Text	100	
<b>WebsiteURL</b>	Text	100	

## Response Sample:

### Valid Response:

```
<?xml version="1.0"?>
<GetMemberInfo>
  <Addresses>
    <MemberAddress>
      <AddressKey>Contact_12441</AddressKey>
      <AddressLine1>54 Aquarius Dr.</AddressLine1>
      <AddressLine2/>
      <AddressLine3/>
      <AddressType>Contact Address</AddressType>
      <City>South Leming</City>
      <Country>United States</Country>
      <IsPreferredBill>False</IsPreferredBill>
      <IsPreferredMail>False</IsPreferredMail>
      <Phones>
        <MemberPhone>
          <PhoneNumber/>
          <PhoneType>Primary</PhoneType>
        </MemberPhone>
        <MemberPhone>
          <PhoneNumber/>
          <PhoneType>Mobile</PhoneType>
        </MemberPhone>
        <MemberPhone>
          <PhoneNumber/>
          <PhoneType>Fax</PhoneType>
        </MemberPhone>
      </Phones>
      <PostalCode>54871</PostalCode>
      <StateProvince>AL</StateProvince>
    </MemberAddress>
  </Addresses>
  <CommunityGroups/>
  <CustomDemographics/>
  <DateOfBirth/>
  <Designation/>
  <EmailAddress>cara@membershipsoftware.org</EmailAddress>
  <Ethnicity/>
  <EventRegistrations/>
  <ExcludeFromDirectory>True</ExcludeFromDirectory>
  <FirstName>Davids</FirstName>
```

```

<Gender/>
<InformalName/>
<IsActive>True</IsActive>
<IsMember>True</IsMember>
<IsOrganization>False</IsOrganization>
<LastName>Ducovny</LastName>
<MemberID>12441</MemberID>
<MemberKey>12441</MemberKey>
<MemberType>Individual Member</MemberType>
<MiddleName/>
<OrganizationName/>
<ParentMemberKey>229</ParentMemberKey>
<Phones>
  <MemberPhone>
    <PhoneNumber/>
    <PhoneType>Primary</PhoneType>
  </MemberPhone>
  <MemberPhone>
    <PhoneNumber/>
    <PhoneType>Mobile</PhoneType>
  </MemberPhone>
  <MemberPhone>
    <PhoneNumber/>
    <PhoneType>Fax</PhoneType>
  </MemberPhone>
</Phones>
<Prefix>- - -</Prefix>
<SecurityGroups>
  <MemberGroup>
    <EndDate>6/4/1908</EndDate>
    <GroupKey>43</GroupKey>
    <GroupName>Individual Member</GroupName>
    <GroupType>Individual</GroupType>
    <MemberRole>Primary</MemberRole>
    <SinceDate>6/9/2010</SinceDate>
    <StartDate>6/9/2010</StartDate>
  </MemberGroup>
</SecurityGroups>
<Suffix/>
<Title/>
<WebsiteURL/>
</GetMemberInfo>

```

## Method: GetMemberKeyUsingEmail

This method returns basic information about all members in the database.

- API Service URL: <https://www.baseurl.com/api/GetMemberKeyUsingEmail>

Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service
<b>emailAddress</b>	Yes	

Request Samples:

REST Call:

<https://www.baseurl.com/api/GetMemberKeyUsingEmail/?securityKey=xxx&emailAddress=testing@membershipssoftware.org>

### Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetMemberKeyUsingEmail" method="GET">
<input type=hidden name="securityKey" value="xxx">
<input type=hidden name="emailAddress" value="testing@membershipsoftware.org">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

### Response Elements:

Field Name	Type	Size	Description
<b>GetMemberKeyUsingEmailResult</b>	<b>Number Array</b>	-	

### Response Sample:

#### Valid Response:

```
<?xml version="1.0"?>
<GetMemberKeyUsingEmail>
  <GetMemberKeyUsingEmailResult>12541</GetMemberKeyUsingEmailResult>
  <GetMemberKeyUsingEmailResult>12598</GetMemberKeyUsingEmailResult>
  <GetMemberKeyUsingEmailResult>12599</GetMemberKeyUsingEmailResult>
</GetMemberKeyUsingEmail>
```

### Method: AuthenticateUser

This method is to authenticate a user.

- API Service URL: <https://www.baseurl.com/api/AuthenticateUser>

### Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service
<b>username</b>	Yes	varchar(45)
<b>password</b>	Yes	varchar(40)

### Request Samples:

REST Call:

<https://www.baseurl.com/api/AuthenticateUser/?securityKey=xx&username=xx&password=xx>

Example:

[https://secure005.membershipsoftware.org/stagingsecure/api/AuthenticateUser/?securitykey=3saX2!i%28201MnjYjkZL\\*3\\*921&username=cheeseburger&password=testing](https://secure005.membershipsoftware.org/stagingsecure/api/AuthenticateUser/?securitykey=3saX2!i%28201MnjYjkZL*3*921&username=cheeseburger&password=testing)

## Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetMemberKeyUsingEmail" method="GET">
<input type="hidden" name="securityKey" value="xxx">
<input type="hidden" name="username" value="testing">
<input type="hidden" name="password" value="testing">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

## Response Elements:

Field Name	Type	Size	Description
ContactId	int	-	

## Response Sample:

### Valid Response:

```
<?xml version="1.0"?>
<AuthenticateUser>
<AuthenticateUserResult>12619</AuthenticateUserResult>
</AuthenticateUser>
```

## Method: GetOrganizationInfo

This method is used to get a single organization or all organizations.

- API Service URL: <https://www.baseurl.com/api/GetOrganizationInfo>

## Request Parameters:

Field Name	Required	Description
securityKey	Yes	Secret key used to prevent unauthorized use of the web service
orgKey	no	Used to pull a single organization, leaving it out; pulls all organizations.

## Request Samples:

### REST Call:

[https://www.baseurl.com/api/GetOrganizationInfo/?securitykey=3saX2!i%28201MnjYjkZL\\*3\\*921&orgKey=123](https://www.baseurl.com/api/GetOrganizationInfo/?securitykey=3saX2!i%28201MnjYjkZL*3*921&orgKey=123)

### Example:

[https://secure005.membershipsoftware.org/stagingsecure/api/GetOrganizationInfo/?securitykey=3saX2!i%28201MnjYjkZL\\*3\\*921&orgKey=25](https://secure005.membershipsoftware.org/stagingsecure/api/GetOrganizationInfo/?securitykey=3saX2!i%28201MnjYjkZL*3*921&orgKey=25)



## Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetOrganizationInfo" method="GET">
<input type=hidden name="securityKey" value="xxxx">
<input type=hidden name="orgKey" value="xxxx">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

## Response Elements:

Field Name	Type	Size	Description
<b>OrgName</b>	<b>text</b>	100	AF_ContactInfo.name
<b>OrgAddress1</b>	<b>text</b>	70	AF_ContactInfo.Address1
<b>OrgAddress2</b>	<b>text</b>	50	AF_ContactInfo.Address2
<b>OrgCity</b>	<b>text</b>	50	AF_ContactInfo.city
<b>OrgState</b>	<b>text</b>	2	AF_ContactInfo.state
<b>OrgZip</b>	<b>text</b>	20	AF_ContactInfo.zip
<b>OrgCountry</b>	<b>text</b>	5	AF_ContactInfo.country
<b>OrgJoinDate</b>	<b>datetime</b>		AF_MemberInfo.assoc_Date
<b>OrgEndDate</b>	<b>datetime</b>		AF_MemberInfo.end_Date
<b>OrgPhoneNumber</b>	<b>text</b>	20	AF_ContactInfo.phone
<b>OrgEmail</b>	<b>text</b>	50	AF_ContactInfo.email
<b>OrgWebsiteAddress</b>	<b>text</b>	100	AF_ContactInfo.url
<b>OrgMemberType</b>	<b>text</b>	150	Assoc_Membertypes.name
<b>OrgID</b>	<b>int</b>		AF_ContactInfo.Memberid
<b>IsActive</b>	<b>int</b>		AF_MemberInfo.MemberStatus: CASE i.MemberStatus WHEN 1 THEN 'Yes' ELSE 'No' END as IsActive
<b>IsMember</b>	<b>int</b>		AF_MemberInfo.MemberStatus: 1 as IsMember

## Response Sample:

### Valid Response:

```
<?xml version="1.0"?>
<GetOrganizationInfo>
  <Organization>
    <OrgName>Naylor</OrgName>
    <OrgAddress1>11230 Waples Mill Road</OrgAddress1>
    <OrgAddress2>Suite 105</OrgAddress2>
    <OrgCity>Fairfax</OrgCity>
    <OrgState>VA</OrgState>
    <OrgZip>22030</OrgZip>
    <OrgCountry>USA</OrgCountry>
    <OrgJoinDate>7/24/2007</OrgJoinDate>
    <OrgEndDate>4/7/2020</OrgEndDate>
    <OrgPhoneNumber>703-591-4232</OrgPhoneNumber>
    <OrgEmail>support@membershipsoftware.org</OrgEmail>
    <OrgWebsiteAddress>http://www.membershipsoftware.org</OrgWebsiteAddress>
    <OrgMemberType>David Test GL Code</OrgMemberType>
    <OrgMemberTypeID>56</OrgMemberTypeID>
    <OrgID>1</OrgID>
    <IsActive>Yes</IsActive>
    <IsMember>1</IsMember>
  </Organization>
</GetOrganizationInfo>
```

## Method: GetCommunityGroupMembers

This method is used to get community group members.

- API Service URL: <https://www.baseurl.com/api/GetCommunityGroupMembers>

### Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service
<b>GroupKey</b>	Yes	Used to get a particular group.

### Request Samples:

REST Call:

[https://www.baseurl.com/api/GetCommunityGroupMembers/?securitykey=3saX2!i%28201MnjYjkZL\\*3\\*921&GroupKey=25](https://www.baseurl.com/api/GetCommunityGroupMembers/?securitykey=3saX2!i%28201MnjYjkZL*3*921&GroupKey=25)

Example:

[https://secure005.membershipsoftware.org/stagingsecure/api/GetCommunityGroupMembers/?securitykey=3saX2!i%28201MnjYjkZL\\*3\\*921&GroupKey=25](https://secure005.membershipsoftware.org/stagingsecure/api/GetCommunityGroupMembers/?securitykey=3saX2!i%28201MnjYjkZL*3*921&GroupKey=25)

## Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetCommunityGroupMembers" method="GET">
<input type=hidden name="securityKey" value="xxxx">
<input type=hidden name="GroupKey" value="123">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

## Response Elements:

Field Name	Type	Size	Description
<b>EndDate</b>	<b>datetime</b>		<b>End of membership:</b> assoc_c_membership.ExpirationDate - as EndDate
<b>MemberKey</b>	<b>int</b>		<b>Id of member:</b> assoc_c_membership.memberid - as MemberKey
<b>MemberRole</b>	<b>text</b>	150	<b>Role in Group:</b> assoc_committee_positions.title - as MemberRole
<b>SinceDate</b>	<b>datetime</b>		<b>Date since a member:</b> assoc_c_membership.affiliationdate - as SinceDate
<b>StartDate</b>	<b>datetime</b>		<b>Date starting membership:</b> assoc_c_membership.joindate - as StartDate

## Response Sample:

### Valid Response:

```
<?xml version="1.0"?>
<GetCommunityGroupMembers>
<GroupMember>
  <EndDate>01/01/2016</EndDate>
  <MemberKey>12370</MemberKey>
  <MemberRole/>
  <SinceDate/>
  <StartDate>02/20/2015</StartDate>
</GroupMember>
</GetCommunityGroupMembers>
```

---

## Method: GetSecurityGroups

This method is used to get security groups.

- API Service URL: <https://www.baseurl.com/api/GetSecurityGroups>

## Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service

## Request Samples:

REST Call:

[https://www.baseurl.com/api/GetSecurityGroups/?securitykey=3saX2!i%28201MnjYjkZL\\*3\\*921](https://www.baseurl.com/api/GetSecurityGroups/?securitykey=3saX2!i%28201MnjYjkZL*3*921)

Example:

[https://secure005.membershipsoftware.org/stagingsecure/api/GetSecurityGroups/?securitykey=3saX2!i%28201MnjYjkZL\\*3\\*921](https://secure005.membershipsoftware.org/stagingsecure/api/GetSecurityGroups/?securitykey=3saX2!i%28201MnjYjkZL*3*921)

## Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetSecurityGroups" method="GET">
<input type="hidden" name="securityKey" value="xxxx">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

## Response Elements:

Field Name	Type	Size	Description
<b>GroupKey</b>	<b>int</b>	-	<b>MemberType ID:</b> Assoc_MemberTypes.id
<b>GroupName</b>	<b>text</b>	150	<b>Group Name:</b> Assoc_MemberTypes.name
<b>GroupType</b>	<b>int</b>	-	<b>Organization' or 'Individual:</b> Assoc_MemberTypes.Typeid (CASE typeid WHEN 1 THEN 'Organization' ELSE 'Individual' END) AS GroupType

## Response Sample:

Valid Response:

```
<?xml version="1.0"?>
<GetSecurityGroups>
  <GroupInfo>
    <GroupKey>1</GroupKey>
    <GroupName>Naylor (organization)</GroupName>
    <GroupType>Organization</GroupType>
  </GroupInfo>
</GetSecurityGroups>
```

---

## Method: GetServerTime

This method is used to get the server time.

- API Service URL: <https://www.baseurl.com/api/GetServerTime>

Request Parameters:

Field Name	Required	Description
<b>securityKey</b>	Yes	Secret key used to prevent unauthorized use of the web service

Request Samples:

REST Call:

[https://www.baseurl.com/api/GetServerTime/?securitykey=3saX2!i%28201MnjYjkZL\\*3\\*921](https://www.baseurl.com/api/GetServerTime/?securitykey=3saX2!i%28201MnjYjkZL*3*921)

Example:

[https://secure005.membershipsoftware.org/stagingsecure/api/GetServerTime/?securitykey=3saX2!i%28201MnjYjkZL\\*3\\*921](https://secure005.membershipsoftware.org/stagingsecure/api/GetServerTime/?securitykey=3saX2!i%28201MnjYjkZL*3*921)

Form Post:

```
<html>
<body>
<form action="http://www.baseurl.com/api/GetServerTime" method="GET">
<input type="hidden" name="securityKey" value="xxxx">
</form>
<script language="javascript">
document.forms[0].submit();
</script>
</body>
</html>
```

Response Elements:

Field Name	Type	Size	Description
<b>GetServerTimeResult</b>	<b>datetime</b>	-	Server Time

Response Sample:

Valid Response:

```
<?xml version="1.0"?>
<GetServerTime>
  <GetServerTimeResult>8/28/2015 3:54:11 PM</GetServerTimeResult>
</GetServerTime>
```

## Definitions

**REST** - Representational State Transfer (REST) is a software architecture style for building scalable web services.

**baseURL** - The base web address that will be used for all API Calls. In this documentation, we will use the substitution `https://www.baseurl.com`. All API Calls will be relative to this base URL.

**securityKey** - A unique key that is provided to each Partner to allow access to the API. This is essentially the partners API Password, and should be treated with the same regard for security as any other sensitive password.

**ContactID** – A unique number identifying the user in the Naylor system.

**redirectURL**

**Token**

**AuthorizationToken**

## Notes

**Date Format** - Any SQL date format will work, it is preferred that you send “m/d/yyyy”.