



API Implementer's Guide

Event Services

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Introduction



This implementer's guide provides information about the Church Community Builder Application Programming Interface (API) Batch services.

This document will specify the necessary values for requests and responses to and from the API, and will provide sample code for accessing the API.

Event Services



The Church Community Builder Event Services allows you to have access to your membership information. This information can be used as you wish on your website, or in other applications in use across your church.

Access to the Event Services is free for the asking for all church partners. However, you still need to have a login and password assigned from your Church Community Builder application. All API services are protected by HTTP Basic Authentication. If your application cannot provide credentials through Basic Authentication, then it will not be able to communicate with the API.

All service calls to the API require a parameter named 'srv' that contains the name of the service being called. All API services accept an optional parameter named 'describe_api' with a value of '1'. This will cause the service to return the values it accepts as parameters and the format of the service response.

Event Profile Contents

Any services that return a Event profile will return records of the same format. A sample of the Event profile format follows:

```
<event id="1411">
  <name>Every 15th</name>
  <description>Fellowship over fries and shakes</description>
  <leader_notes>This is a note for the leaders to see. Please take attendance.</leader_notes>
  <start_datetime>2010-01-15 19:00:00</start_datetime>
  <start_date>Jan 15, 2010</start_date>
  <start_time>7:00 PM</start_time>
  <end_datetime>2010-01-15 21:00:00</end_datetime>
  <end_date>Jan 15, 2010</end_date>
  <end_time>9:00 PM</end_time>
  <timezone>America/Denver</timezone>
  <recurrence_description>Every month on the 15th until Jan 15, 2011 from 7:00 PM-9:00 PM</
recurrence_description>
  <group id="112">CCB Guys</group>
  <organizer id="1">Master Admin</organizer>
  <phone type="contact">(719) 439-7964</phone>
  <location>
    <name>Five Guys Burger and Fries</name>
    <street_address>7252 North Academy Boulevard</street_address>
    <city>Colorado Springs</city>
    <state>CO</state>
    <zip>80920</zip>
    <line_1>7252 North Academy Boulevard</line_1>
    <line_2>Colorado Springs, CO 80920</line_2>
  </location>
  <registration>
    <limit>25</limit>
    <event_type id="1">Open to All</event_type>
    <forms>
      <form id="21">
```

```

    <name>Five Guys Event Registration</name>
    <description>Anyone who wants to participate in the fellowship at Five Guys needs to register here
first.</description>
    <url>http://dev/w_form_response.php?form_id=21</url>
  </form>
</forms>
</registration>
<resources>
  <resource id="22">
    <name>Unity Hall 1</name>
    <description></description>
    <status id="3">Approved</status>
    <resource_type>Location</resource_type>
    <user_defined_fields>
      <user_defined_field>
        <label>Resource Size</label>
        <selection id="5">Medium</selection>
      </user_defined_field>
    </user_defined_fields>
  </resource>
</resources>
<event_grouping id="3">Adult Care Groups</event_grouping>
<creator id="1">Master Admin</creator>
<modifier id="1">Master Admin</modifier>
<created>2010-01-06 15:46:29</created>
<modified>2010-05-04 17:40:38</modified>
</event>

```

Event Profile

The Event Profile service allows you to retrieve the profile for an event identified by its ID.

Service Name

event_profile

Required Parameters

id

Optional Parameters

None

Sample Request

```
curl 'http://localhost/api.php?srv=event_profile&id=1451' -u user:pwd
```

Sample Response

```

<?xml version="1.0" encoding="UTF-8"?>
<ccb_api>

```

```

<request>
  <parameters>
    <argument name="srv" value="event_profile" />
    <argument name="id" value="1451" />
  </parameters>
</request>
<response>
  <service>event_profile</service>
  <service_action>execute</service_action>
  <availability>public</availability>
  <events count="1">
    <event id="1451">
      <name>API Test</name>
      <description/>
      <leader_notes/>
      <start_datetime>2012-09-25 11:00:00</start_datetime>
      <start_date>Sep 25, 2012</start_date>
      <start_time>11:00am</start_time>
      <end_datetime>2012-09-25 13:00:00</end_datetime>
      <end_date>Sep 25, 2012</end_date>
      <end_time>1:00pm</end_time>
      <timezone>America/Toronto</timezone>
      <recurrence_description>Every month on the  of the month from 11:00am to 1:00pm</recurrence_description>
      <exceptions/>
      <group id="446">Case 6005</group>
      <organizer id="1">Master Admin</organizer>
      <phone type="contact"></phone>
      <location/>
      <registration>
        <limit>0</limit>
        <event_type id="1">Open to All</event_type>
        <forms/>
      </registration>
      <resources/>
      <setup>
        <start>2012-09-25 11:00:00</start>
        <end>2012-09-25 13:00:00</end>
        <notes/>
      </setup>
      <event_grouping></event_grouping>
      <creator>System User</creator>
      <modifier>System User</modifier>
      <created>2012-09-11 17:28:19</created>
      <modified>2012-09-11 17:28:19</modified>
    </event>
  </events>
</response>
</ccb_api>

```

Event Profiles

The Event Profiles service allows you to pass in a given date and have all events created or modified since that date returned to you. If a date is not provided, all events in the system will be returned.

Service Name

event_profiles

Required Parameters

None

Optional Parameters

modified_since

Sample Request

```
curl 'http://localhost/api.php?srv=event_profiles&modified_since=2010-04-01' -u user:pwd
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ccb_api>
<request>
  <parameters>
    <argument name="srv" value="event_profiles" />
    <argument name="modified_since" value="2010-04-01" />
  </parameters>
</request>
<response>
<service>event_profiles</service>
<service_action>execute</service_action>
<availability>public</availability>
  <events count="1">
    <event id="1411">
      <name>Every 15th</name>
      <description>Fellowship over fries and shakes</description>
      <leader_notes>This is a note for the leaders to see. Please take attendance.</leader_notes>
      <start_datetime>2010-01-15 19:00:00</start_datetime>
      <start_date>Jan 15, 2010</start_date>
      <start_time>7:00 PM</start_time>
      <end_datetime>2010-01-15 21:00:00</end_datetime>
      <end_date>Jan 15, 2010</end_date>
      <end_time>9:00 PM</end_time>
      <timezone>America/Denver</timezone>
      <recurrence_description>Every month on the 15th until Jan 15, 2011 from 7:00 PM-9:00 PM<
recurrence_description>
      <group id="112">CCB Guys</group>
      <organizer id="1">Master Admin</organizer>
      <phone type="contact">(719) 439-7964</phone>
```

```

<location>
  <name>Five Guys Burger and Fries</name>
  <street_address>7252 North Academy Boulevard</street_address>
  <city>Colorado Springs</city>
  <state>CO</state>
  <zip>80920</zip>
  <line_1>7252 North Academy Boulevard</line_1>
  <line_2>Colorado Springs, CO 80920</line_2>
</location>
<registration>
  <limit>25</limit>
  <event_type id="1">Open to All</event_type>
  <forms>
    <form id="21">
      <name>Five Guys Event Registration</name>
      <description>Anyone who wants to participate in the fellowship at Five Guys needs to register here
first.</description>
      <url>http://dev/w_form_response.php?form_id=21</url>
    </form>
  </forms>
</registration>
<resources>
  <resource id="22">
    <name>Unity Hall 1</name>
    <description></description>
    <status id="3">Approved</status>
    <resource_type>Location</resource_type>
    <user_defined_fields>
      <user_defined_field>
        <label>Resource Size</label>
        <selection id="5">Medium</selection>
      </user_defined_field>
    </user_defined_fields>
  </resource>
</resources>
<event_grouping id="3">Adult Care Groups</event_grouping>
<creator id="1">Master Admin</creator>
<modifier id="1">Master Admin</modifier>
<created>2010-01-06 15:46:29</created>
<modified>2010-05-04 17:40:38</modified>
</event>
</events>
</response>
</ccb_api>

```


Create Event

The Create Event service will accept form-encoded data representing a new event and create a new event in the Church Community Builder system. The service returns the profile of the event that was created.

This service MUST be invoked with an HTTP POST, and the data for the new individual contained in the post data MUST be encoded in the mime format application/x-www-form-urlencoded.

The following HTML5 form is an example of the values that could be passed to the service to create an event. The required values are name, start_date, end_date, and group_id.

```
<!DOCTYPE html>
<head>
  <title>Create Event Form</title>
</head>
<body>
<form action="http://dev/api.php?srv=create_event" method="post"
  enctype="application/x-www-form-urlencoded" accept-charset="utf-8">
  <label for="name">Name</label><input type="text" id="name" name="name" required="required" /><br />
  <label for="description">Description</label><textarea id="description" name="description"></textarea><br />
  <label for="leader_notes">Leader Notes</label><textarea id="leader_notes" name="leader_notes"></textarea><br />
  <label for="start_date">Event Start</label><input type="datetime-local" id="start_date" name="start_date"
required="required" /><br />
  <label for="end_date">Event End</label><input type="datetime-local" id="end_date" name="end_date"
required="required" /><br />
  <label for="setup_minutes">Minutes to add before for setup</label><input type="number" id="setup_minutes"
name="setup_minutes" value="0" /><br />
  <label for="cleanup_minutes">Minutes to add after for cleanup</label><input type="number" id="cleanup_minutes"
name="cleanup_minutes" value="0" /><br />
  <label for="setup_notes">Setup Notes</label><textarea id="setup_notes" name="setup_notes"></textarea><br />
  <label for="group_id">Group ID</label><input type="number" id="group_id" name="group_id" value="0"
required="required" /><br />
  <label for="organizer_id">Organizer ID</label><input type="number" id="organizer_id" name="organizer_id"
value="0" /><br />
  <label for="contact_phone">Contact Phone</label><input type="tel" id="contact_phone" name="contact_phone" />
<br />
  <fieldset id="event_type_id">
    <legend>Event Type</legend>
    <label for="open-all">Open to All</label><input type="radio" id="open-all" name="event_type_id"
checked="checked" value="1" />
    <label for="registration-required">Registration Required</label><input type="radio" id="registration-
required" name="event_type_id" value="2" />
  </fieldset>
  <label for="registration_form_id">Registration Form ID</label><input type="number" id="registration_form_id"
name="registration_form_id" value="0" /><br />
  <label for="event_grouping_id">Event Grouping ID</label><input type="number" id="event_grouping_id"
name="event_grouping_id" value="0" /><br />
  <label for="registration_limit">Registration Limit</label><input type="number" id="registration_limit"
name="registration_limit" value="0" /><br />
  <fieldset id="recurrence_type">
    <legend>Recurrence Type</legend>
    <label for="daily">Daily</label><input type="radio" id="daily" name="recurrence_type" value="daily" />
    <label for="weekly">Weekly</label><input type="radio" id="weekly" name="recurrence_type" value="weekly" />
  </fieldset>
</form>
```

```

    <label for="monthly">Monthly</label><input type="radio" id="monthly" name="recurrence_type"
value="monthly" />
</fieldset>
<label for="recurrence_frequency">Recurrence Frequency</label><input type="number" id="recurrence_frequency"
name="recurrence_frequency" value="1" /><br />
<fieldset id="recurrence_week_number">
    <legend>Recurrence Week Number</legend>
    <label for="first">First</label><input type="radio" id="first" name="recurrence_week_number" value="first" /
>
    <label for="second">Second</label><input type="radio" id="second" name="recurrence_week_number"
value="second" />
    <label for="third">Third</label><input type="radio" id="third" name="recurrence_week_number" value="third" /
>
    <label for="fourth">Fourth</label><input type="radio" id="fourth" name="recurrence_week_number"
value="fourth" />
    <label for="last">Last</label><input type="radio" id="last" name="recurrence_week_number" value="last" />
</fieldset>
<fieldset id="recurrence_day_of_week">
    <legend>Recurrence Day of Week</legend>
    <label for="monday">Monday</label><input type="radio" id="monday" name="recurrence_day_of_week"
value="mon" />
    <label for="tuesday">Tuesday</label><input type="radio" id="tuesday" name="recurrence_day_of_week"
value="tue" />
    <label for="wednesday">Wednesday</label><input type="radio" id="wednesday" name="recurrence_day_of_week"
value="wed" />
    <label for="thursday">Thursday</label><input type="radio" id="thursday" name="recurrence_day_of_week"
value="thu" />
    <label for="friday">Friday</label><input type="radio" id="friday" name="recurrence_day_of_week"
value="fri" />
    <label for="saturday">Saturday</label><input type="radio" id="saturday" name="recurrence_day_of_week"
value="sat" />
    <label for="sunday">Sunday</label><input type="radio" id="sunday" name="recurrence_day_of_week"
value="sun" />
</fieldset>
<label for="recurrence_day_of_month">Recurrence Day of Month</label>
<select id="recurrence_day_of_month" name="recurrence_day_of_month">
    <option selected="selected" value="1">1</option>
    <option value="2">2</option>
    <option value="3">3</option>
    <option value="4">4</option>
    <option value="5">5</option>
    <option value="6">6</option>
    <option value="7">7</option>
    <option value="8">8</option>
    <option value="9">9</option>
    <option value="10">10</option>
    <option value="11">11</option>
    <option value="12">12</option>
    <option value="13">13</option>
    <option value="14">14</option>
    <option value="15">15</option>
    <option value="16">16</option>
    <option value="17">17</option>

```

```

    <option value="18">18</option>
    <option value="19">19</option>
    <option value="20">20</option>
    <option value="21">21</option>
    <option value="22">22</option>
    <option value="23">23</option>
    <option value="24">24</option>
    <option value="25">25</option>
    <option value="26">26</option>
    <option value="27">27</option>
    <option value="28">28</option>
    <option value="29">29</option>
    <option value="30">30</option>
    <option value="31">31</option>
    <option value="-1">Last</option>
</select><br />
    <label for="recurrence_end_date">Recurrence End Date</label><input type="datetime-local"
id="recurrence_end_date" name="recurrence_end_date" /><br />
    <label for="number_of_occurrences">Number of Occurrences</label><input type="number"
id="number_of_occurrences" name="number_of_occurrences" value="0" /><br />

    <label for="location_name">Location Name</label><input type="text" id="location_name" name="location_name" /
><br />
    <label for="location_street_address">Location Street Address</label><input type="text"
id="location_street_address" name="location_street_address" /><br />
    <label for="location_city">Location City</label><input type="text" id="location_city" name="location_city" /
><br />
    <label for="location_state">Location State</label><input type="text" id="location_state"
name="location_state" /><br />
    <label for="location_zip">Location ZIP Code</label><input type="text" id="location_zip" name="location_zip" /
><br />
    <label for="notification">Send RSVP notifications to organizer</label><input type="checkbox" id="notification"
name="notification" value="true" /><br />
    <label for="attendance_reminder">Send leaders reminder to take attendance</label><input type="checkbox"
id="attendance_reminder" name="attendance_reminder" value="true" /><br />
    <label for="listed">Listed</label><input type="checkbox" id="listed" name="listed" value="true" /><br />
    <label for="creator_id">Creator ID</label><input type="number" id="creator_id" name="creator_id" value="0" /
><br />
</form>
</body>

```

Service Name

create_event

Required Parameters

None

Optional Parameters

None

Sample Request

```
curl "http://localhost/api.php?srv=create_event" -u user:pwd -d"name=Test+Event+via
+API&start_date=2012-09-27+09:00:00&end_date=2012-09-27+11:30:00&group_id=446&recurrence_type=monthly&recurrence
_week_number=second&recurrence_day_of_week=tue"
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ccb_api>
  <request>
    <parameters>
      <argument name="srv" value="create_event" />
    </parameters>
  </request>
  <response>
    <service>create_event</service>
    <service_action>execute</service_action>
    <availability>public</availability>
    <events count="1">
      <event id="1455">
        <name>Test Event via API</name>
        <description/>
        <leader_notes/>
        <start_datetime>2012-09-27 09:00:00</start_datetime>
        <start_date>Sep 27, 2012</start_date>
        <start_time>9:00am</start_time>
        <end_datetime>2012-09-27 11:30:00</end_datetime>
        <end_date>Sep 27, 2012</end_date>
        <end_time>11:30am</end_time>
        <timezone>America/Toronto</timezone>
        <recurrence_description>Every month on the second Tuesday of the month from 9:00am to 11:30am</
recurrence_description>
        <exceptions/>
        <group id="446">Case 6005</group>
        <organizer id="1">Master Admin</organizer>
        <phone type="contact"></phone>
        <location/>
        <registration>
          <limit>0</limit>
          <event_type id="1">Open to All</event_type>
        </registration>
      </event>
    </events>
  </response>
</ccb_api>
```

```

    <forms/>
  </registration>
  <resources/>
  <setup>
    <start>2012-09-27 09:00:00</start>
    <end>2012-09-27 11:30:00</end>
    <notes/>
  </setup>
  <event_grouping></event_grouping>
  <creator>System User</creator>
  <modifier>System User</modifier>
  <created>2012-09-13 16:32:07</created>
  <modified>2012-09-13 16:32:07</modified>
</event>
</events>
</response>
</ccb_api>

```

Create Event Attendance

The Create Event Attendance service allows you to directly create attendance records in the Church Community Builder database. In order to create the attendance records, an XML file with the designated structure must be sent with the service call.

This XML file must contain valid IDs for individuals and events. If any of the data in the XML file is found to be incomplete, the entire file will be skipped. Either the entire file will be imported or nothing will.

The file is included with the service call using standard HTTP multipart/form-data encoding. This is the same mechanism a web page allowing file uploads utilizes.

If successful, this service will return a collection of the attendance profiles that were created. If not successful, an XML element named success will have the value of false, and an element named message will have a brief message describing the problem with the file.

Service Name

create_event_attendance

Required Parameters

None

Optional Parameters

format

Sample Request

```
curl -F upload=@attendance.xml 'http://dev/api.php?srv=create_event_attendance' -u user:pwd
```

Sample File Structure

```

<?xml version="1.0" encoding="UTF-8"?>
<events>

```

```

<event id="1456" occurrence="2012-08-26 08:00:00">
  <did_not_meet>>false</did_not_meet>
  <topic>Walk with God Chapter 2</topic>
  <notes>None</notes>
  <prayer_requests>Back to school</prayer_requests>
  <info>Amy and Jancie brought friends.</info>
  <email_notification>leaders</email_notification>
  <head_count>2</head_count>
  <attendees>
    <attendee id="2412"></attendee>
    <attendee id="2464"></attendee>
    <attendee id="2468"></attendee>
    <attendee id="2463"></attendee>
  </attendees>
</event>
</events>

```

Sample Response

```

<?xml version="1.0" encoding="UTF-8"?>
<ccb_api>
  <request>
    <parameters>
      <argument name="srv" value="create_event_attendance" />
      <argument name="format" value="xml" />
    </parameters>
  </request>
  <response>
    <service>create_event_attendance</service>
    <service_action>execute</service_action>
    <availability>public</availability>
    <events count="1">
      <event id="1456">
        <name>Test Event via API part II</name>
        <occurrence>2012-08-26 08:00:00</occurrence>
        <did_not_meet>>false</did_not_meet>
        <topic>Walk with God Chapter 2</topic>
        <notes>None</notes>
        <prayer_requests>Back to school</prayer_requests>
        <info>Amy and Jancie brought friends.</info>
        <attendees>
          <attendee id="2412">
            <first_name>Ken</first_name>
            <last_name>Scott</last_name>
          </attendee>
          <attendee id="2463">
            <first_name>Leslie</first_name>
            <last_name>Scott</last_name>
          </attendee>
          <attendee id="2464">
            <first_name>Kaitlyn</first_name>
            <last_name>Scott</last_name>
          </attendee>
        </attendees>
      </event>
    </events>
  </response>
</ccb_api>

```

```

    <attendee id="2468">
      <first_name>Kyra</first_name>
      <last_name>Scott</last_name>
    </attendee>
  </attendees>
  <head_count>2</head_count>
</event>
</events>
</response>
</ccb_api>

```

Attendance Profile

The Attendance Profile service allows you to retrieve attendance information for a provided occurrence of an event

Service Name

attendance_profile

Required Parameters

id
occurrence

Optional Parameters

None

Sample Request

```
curl "http://localhost/api.php?srv=attendance_profile&id=1456&occurrence=2012-08-26+08:00:00"-u user:pwd
```

Sample Response

```

<?xml version="1.0" encoding="UTF-8"?>
<ccb_api>
  <request>
    <parameters>
      <argument name="srv" value="create_event_attendance" />
      <argument name="format" value="xml" />
    </parameters>
  </request>
  <response>
    <service>create_event_attendance</service>
    <service_action>execute</service_action>
    <availability>public</availability>
    <events count="1">
      <event id="1456">
        <name>Test Event via API part II</name>
        <occurrence>2012-08-26 08:00:00</occurrence>
        <did_not_meet>false</did_not_meet>
        <topic>Walk with God Chapter 2</topic>
      </event>
    </events>
  </response>
</ccb_api>

```

```

<notes>None</notes>
<prayer_requests>Back to school</prayer_requests>
<info>Amy and Jancie brought friends.</info>
<attendees>
  <attendee id="2412">
    <first_name>Ken</first_name>
    <last_name>Scott</last_name>
  </attendee>
  <attendee id="2463">
    <first_name>Leslie</first_name>
    <last_name>Scott</last_name>
  </attendee>
  <attendee id="2464">
    <first_name>Kaitlyn</first_name>
    <last_name>Scott</last_name>
  </attendee>
  <attendee id="2468">
    <first_name>Kyra</first_name>
    <last_name>Scott</last_name>
  </attendee>
</attendees>
<head_count>2</head_count>
</event>
</events>
</response>
</ccb_api>

```

Add Individual to Event

The Add Individual to Event service allows an RSVP for an individual to be created. The individual can be listed as Invited, Attending, Declined, Undecided, or Requesting To Attend.

The allowed values for the status parameter are add, invite, decline, maybe, and request. Any other status value will be treated as request.

Service Name

add_individual_to_event

Required Parameters

id
event_id
status

Optional Parameters

None

Sample Request

```
curl "http://localhost/api.php?srv=add_individual_to_event&id=2412&event_id=1456&status=add" -u user:pwd
```


Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ccb_api>
<request>
  <parameters>
    <argument name="srv" value="add_individual_to_event" />
    <argument name="id" value="2412" />
    <argument name="event_id" value="1456" />
    <argument name="status" value="add" />
  </parameters>
</request>
<response>
<service>add_individual_to_event</service>
<service_action>execute</service_action>
<availability>public</availability>
  <individual_events count="1">
<individual_event>
  <individual id="2412">Ken Scott</individual>
  <event id="1456">Test Event via API part II</event>
  <status id="2">Attending</status>
</individual_event>
  </individual_events>
</response>
</ccb_api>
```



Where to Start

The Event Services API is available on your existing Church Community Builder account. All event services are read-only, except as noted, and cannot damage any of your existing data.

After creating and assigning API accounts, use that information to create applications that communicate with your API.

Accessing the Services

The API services can be accessed via the https (port 443) protocol. For the security of church partner data, Church Community Builder has chosen to encrypt all transmissions of data, instead of using the standard http (port 80) port.

The address to be used for accessing the services is displayed in the API Admin section of the Church Community Builder application.

Login & Password

Logins and passwords are created and assigned through the API Admin section within the Church Community Builder application. Logins are assigned access to each service individually so control can be kept on what services are available if, for instance, the service login is for an external web development company.

This login and password is not the same as the Church Community Builder User Community account and will not allow a user access to the Church Community Builder application.