

---

# BetCRM

Bet-C

## CRM Web API Specification

08.06.2016

---

BetConstruct Coding Bootcamp team Bet-C

Tigran Vardanyan, Lusine Hovsepyan, Siranush Aslanyan, Sargis Chilingaryan, Hovhannes Nalbandyan

Microsoft Innovation Center Armenia

State Engineering University of Armenia, Building #10, 6th Floor

Yerevan

# Index

## Registration Authentication

- [Registration\(Adds admin\)](#)
  - Request
  - Response
- [Login \(Authenticates the user with the system and gives token\)](#)
  - Request
  - Response

## Contacts

- [Get \(returns all contacts from database\)](#)
  - Request
  - Response
- [Get By Guld \(returns specific contact and mailing lists of that contact\)](#)
  - Request
  - Response
- [Put \(updates specific contact by Guld\)](#)
  - Request
  - Response
- [Post \(creates new contact\)](#)
  - Request
  - Response
- [Delete \(deletes contact by Guld\)](#)
  - Request
  - Response
- [Delete \(deletes contact by Guld list\)](#)
  - Request
  - Response
- [Post \(uploads contacts from Excel or CSV file to database\)](#)
  - Request
  - Response
- [Post \(returns contacts by paiges filtered and ordered by specific fields\)](#)
  - Request
  - Response

## Email Lists

- [Get \(returns all email lists from database\)](#)
  - Request
  - Response
- [Get By Id \(returns specific email list and contacts of that list\)](#)
  - Request
  - Response
- [Put \(updates specific email list contacts\)](#)
  - Request
  - Response
- [Put \(updates specific email list\)](#)
  - Request
  - Response
- [Post \(creates new email list\)](#)
  - Request
  - Response
- [Delete \(deletes email list by Id\)](#)
  - Request
  - Response

## Send Email

- [Post \(sends emails to contacts by contacts guid list, and template id\)](#)
  - Request
  - Response
- [Post \(sends emails to contacts by email list id and template id\)](#)
  - Request
  - Response

## Email Templates

- [Get \(returns all templates from database\)](#)
  - Request
  - Response

# 1 Registration/Authentication

## 1.1 Post (Registration)

Adds new admin

### Request

Method	URL
Post	http://crmbetc.azurewebsites.net/api/Account/Register

Type	Values
Post_Body_Param	<pre>{   "Email": "tigran_vardanuan@yahoo.com",   "UserName": "tigran",   "Password": "123456789pass",   "ConfirmPassword": "123456789pass" }</pre>

### Response

Status Code	Response Body
200 OK	Admin created successfully
400 Bad Request	Exception and InnerException Message
500 Internal Server Error	

## 1.2 Post(Authentication)

Authenticates the user with the system and gives token

### Request

Method	URL
Post	http://crmbetc.azurewebsitesnet/token

Type	Param name	Values
Body_urlencoded	grant_type	password
Body_urlencoded	username	tigran
Body_urlencoded	password	123456789pass

## Response

Status Code	Response Body
200 OK	<pre>{   "access_token":   "EBEnYF1oI_EmdlRPRGNlbRy3VvkRIUU9JHbiK9V0IUUV6wu1m9eeySAx5tKhZSw3Zz   YtTXUtDWW4oU3to9sC2KiFd9j8WgRFg9nsGSH6zY1xRfZE--7HkKqtjZiy7-Lr6hu4SH   -q7vbGNppOnVPNGvchkUIpC-b6_LijAoxlVJdxcEWnGFFTwLkZvVQp6AIY-wisIG0M6   t1wh8qkRNMZL6xPmd-dtdAUm0ZrVLuHh8P8",   "token_type": "bearer",   "expires_in": 86399 }</pre>
400 Bad Request	Exception and InnerException Message
500 Internal Server Error	

## Attention!!!

Required header for all bellow Requests

Header Name	Value - Bearer token_key
<b>Authorization</b>	<pre>Bearer QH3izQ8iEPgDjrDSZFnHduwzOQJdHI4ejjUqEdW6h2Nx18uzfvl6Jf_3RE2zoxshh4e gfLw6lt2_EjPZEu4aF89y7ztOsk9pETS-SUTBr39YhiMsPntXw6_QQ1mhWcCuizGEZ uqW2SVMCw-epBS84VT3MAxLaa9ow4QsO4q7pQfIKqzgwts1UVFg1HQEGJUkL5F 4IRHV709xeXaZhzanosHeP86XKq804ImJ0P3Xc4w</pre>

## 2 Contacts

### 2.1 Get

Gets all contacts from database without email lists

#### Request

Method	URL
Get	http://crmbetc.azurewebsites.net/api/contacts

#### Response

Status Code	Response Body
200 OK	<pre>{   "Full Name": "Aghasi Lorsabyan",   "Company Name": "TUMO",   "Position": "Mentor",   "Country": "Armenia",   "Email": "lorsabyan@gmail.com",   "GulD": "1d8cecd5-2d4c-43c1-bcd1-085664eb6bdc" }, {   "Full Name": "Siranush Aslanyan",   "Company Name": "Mic Armenia",   "Position": "Developer",   "Country": "Armenia",   "Email": "siranushik94@gmail.com",   "GulD": "7d4866ed-4cc1-40c1-a552-ee28f4cacee6" } ]</pre>
400 Bad Request	Exception and InnerException Message
404 Not Found	

### 2.2 Get (by guid)

Gets specific contact by GulD

#### Request

Method	URL
Get	http://crmbetc.azurewebsites.net/api/contacts?guid=1d8cecd5-2d4c-43c1-bcd1-085664eb6bdc

Type	Param name	Values
URL_PARAM	guid	dab7e4fb-171f-4e65-8a5a-7640fb113fe5

#### Response

Status	Response
--------	----------

200 OK	<pre>{   "Full Name": "Aghasi Lorsabyan",   "Company Name": "TUMO",   "Position": "Mentor",   "Country": "Armenia",   "Email": "lorsabyan@gmail.com",   "GuID": "1d8cecd5-2d4c-43c1-bcd1-085664eb6bdc",   "EmailLists": [     {       "EmailListID": 1,       "EmailListName": "All"     },     {       "EmailListID": 5,       "EmailListName": "New Year"     }   ] }</pre>
400 Bad Request	Exception and InnerException Message
404 Not Found	If in database Contact with such guid is not found

## 2.3 Put (updates contact)

Updates specific contact

### Request

Method	URL
Put	http://crmbetc.azurewebsites.net/api/contacts

Type	Values
Post_Body_Param	<pre>{   "FullName": "Tatevik Vardanyan",   "CompanyName": "Mic Armenia",   "Position": "Developer",   "Country": "Armenia",   "Email": "tatevik@gmail.com",   "GuID": "943d9186-6350-4ecb-a826-048a0306228a",   "EmailLists": [1, 2] }</pre> <p>The "EmailLists" field is optional and can be ignored in request (in this case the email lists of contact will not be changed)</p>

### Response

Status	Response
200 OK	<pre>{   "Full Name": "Tatevik Vardanyan",   "Company Name": "Mic Armenia",   "Position": "Developer",   "Country": "Armenia",   "Email": "tatevik@gmail.com",   "GuID": "943d9186-6350-4ecb-a826-048a0306228a",   "EmailLists": {     "1": "All",     "2": "VIP Partners"   } }</pre>

404 Not Found	If in database Contact with such guid is not found
400 Bad Request	Exception and InnerException Message

## 2.4 Post (creates contact)

Creates new contact

### Request

Method	URL
Post	http://crmbetc.azurewebsites.net/api/contacts

Type	Values
Post_Body_Param	<pre>{   "FullName": "Tatevik Vardanyan",   "CompanyName": "Mic Armenia",   "Position": "Developer",   "Country": "Armenia",   "Email": "tatevik@gmail.com",   "EmailLists": [1, 2] }</pre> <p>The <b>"EmailLists"</b> field is optional and can be ignored in request (in this case the created contact will not be in any email lists)</p>

### Response

Status	Response
200 OK	<pre>{   "Full Name": "Tatevik Vardanyan",   "Company Name": "Mic Armenia",   "Position": "Developer",   "Country": "Armenia",   "Email": "tatevik@gmail.com",   "GUID": "edf 30214-9c92-4533-864f-db6baf8a1fe0",   "EmailLists": {     "1": "AllSir",     "2": "VIP Partners"   } }</pre>
400 Bad Request	Exception and InnerException Message

## 2.5 Delete (by guid)

Deletes the specific contact by Guid

### Request

Method	URL
DELETE	http://crmbetc.azurewebsites.net/api/contacts?guid=a1e1ce1c-2c04-494b-add1-340bad88b6e8



Type	Param name	Values
URL_PARAM	guid	dab7e4fb-171f-4e65-8a5a-7640fb113fe5

## Response

Status	Response
200 OK	
400 Bad Request	Exception and InnerException Message
404 Not Found	If in database Contact with such guid is not found

## 2.6 Delete (by guid list)

Deletes the specific contact by Guid

### Request

Method	URL
DELETE	http://crmbetc.azurewebsites.net/api/contacts

Type	Values
Delete_Body_Param	[ "b3e48661-7979-440d-bf33-c8da8ed2cb62", "dab7e4fb-171f-4e65-8a5a-7640fb113fe5", "e621e4c4-5d33-48de-8b36-2596066e4617", "B3b91410-6c3b-42e3-b90b-c0ef9298be58" ]

### Response

Status	Response
200 OK	
400 Bad Request	Exception and InnerException Message
404 Not Found	If in database Contact with such guid is not found

## 2.7 Post (file uploading)

Uploads Excel or CSV file of contacts into database

### Request

Method	URL
POST	http://crmbetc.azurewebsites.net/api/contacts/upload

### Example of html to upload file

```
<form name="form1" method="post" enctype="multipart/form-data"
action="http://crmbetc.azurewebsites.net/api/contacts/upload">
  <div>
    <label for="datafile">Data File</label>
    <input name="datafile" type="file" />
  </div>
  <div>
    <input type="submit" value="Submit" />
  </div>
</form>
```

### Use the following formats to upload contacts into csv and excel

#### Excel file

	A	B	C	D	E
1	FullName	CompanyName	Position	Country	Email
2	Name11	Company11	Position11	Country11	<a href="#">samplemail32yandex.ru</a>
3	Name12	Company12	Position12	Country12	<a href="#">samplemail33yandex.ru</a>
4	Name13	Company13	Position13	Country13	<a href="#">samplemail34yandex.ru</a>
5	Name14	Company14	Position14	Country14	<a href="#">samplemail35yandex.ru</a>
6	Name15	Company15	Position15	Country15	<a href="#">samplemail36yandex.ru</a>
7	Name16	Company16	Position16	Country16	<a href="#">samplemail37yandex.ru</a>
8	Name17	Company17	Position17	Country17	<a href="#">samplemail38yandex.ru</a>
9	Name18	Company18	Position18	Country18	<a href="#">samplemail39yandex.ru</a>
10	Name19	Company19	Position19	Country19	<a href="#">samplemail40yandex.ru</a>
11	Name20	Company20	Position20	Country20	<a href="#">samplemail41yandex.ru</a>

#### CSV file

FullName,CompanyName,Position,Country,Email  
Name1,Company1,Position 1,Country1,samplemail25@gmail.com  
Name2,Company2,Position 2,Country2,samplemail26@gmail.com  
Name3,Company3,Position 3,Country3,samplemail27@gmail.com  
Name4,Company4,Position 4,Country4,samplemail28@gmail.com  
Name5,Company5,Position 5,Country5,samplemail29@gmail.com  
Name6,Company6,Position,Country6,samplemail30@gmail.com  
Name7,Company7,Position,Country7,samplemail31@gmail.com  
Name8,Company8,Position 8,Country8,samplemail32@gmail.com  
Name9,Company9,Position,Country9,samplemail33@gmail.com

## Response

Status	Response
200 OK	Number of successfully uploaded and failed contacts
400 Bad Request	Exception and InnerException Message

## 2.8 Post (Query contacts)

Returns contacts by paiges filtered and ordered by specific fields

### Request

Method	URL
Put	http://crmbetc.azurewebsites.net/api/contacts/pagies

Type	Param name	Pagination / optional parameters
URL_PARAM	start	number (starting from row)
URL_PARAM	rows	number (contacts per page)
		Order By/ optional parameters
URL_PARAM	date	1 - Ascending, 0 - descending
URL_PARAM	name	1 - Ascending, 0 - descending
URL_PARAM	company	1 - Ascending, 0 - descending
URL_PARAM	country	1 - Ascending, 0 - descending
URL_PARAM	position	1 - Ascending, 0 - descending

Type	Values
Post_Body_Param	<pre>{   "FullName": "Tatevik Vardanyan",   "CompanyName": "Mic Armenia",   "Position": "Developer",   "Country": "Armenia",   "Email": "tatevik@gmail.com",   "EmailLists": [1, 2] }</pre>

### Response

Status	Response
200 OK	<p>Response is Key Value Pair, where key is number of pages, and value is list of Contacts</p> <pre>{   "Key": 2,   "Value": [     {       "Full Name": "Tsovinar Ghazaryan",       "Company Name": "MIC Armenia",       "Position": "Developer",       "Country": "Armenia",       "Email": "tsovinar.ghazaryan@yahoo.com",       "GuID": "03fba3cf-86fc-4618-a711-e636345e40c4"     }   ] }</pre>
400 Bad Request	Exception and InnerException Message
404 Not Found	If Email List with such id is not found in database

## 3 Email lists

### 3.1 Get

Gets all email lists from database without contacts

#### Request

Method	URL
Get	http://crmbetc.azurewebsites.net/api/emaillists

#### Response

Status Code	Response Body
200	<pre>[   {     "EmailListID": 1,     "EmailListName": "All"   },   {     "EmailListID": 2,     "EmailListName": "VIP Partners"   } ]</pre>
400 Bad Request	Exception and InnerException Message
404 Not Found	

### 3.2 Get (by id)

Gets specific email list by Id

#### Request

Method	URL
Get	http://crmbetc.azurewebsites.net/api/emaillists?id=1

Type	Param name	Values
URL_PARAM	id	integer

#### Response

Status	Response
200 OK	<pre>{   "EmailListID": 1,   "EmailListName": "All",   "Contacts": [</pre>

	<pre>{   "Full Name": "Aghasi Lorsabyan",   "Company Name": "TUMO",   "Position": "Mentor",   "Country": "Armenia",   "Email": "lorsabyan@gmail.com",   "GuID": "1d8cecd5-2d4c-43c1-bcd1-085664eb6bdc" }</pre>
400 Bad Request	Exception and InnerException Message
404 Not Found	If Email List with such id is not found in database

### 3.3 Put (updates email list contacts)

Updates specific email list contacts: if flag is true, adds contacts from request body to email list, if flag = false, deletes those contacts from email list.

#### Request

Method	URL
Put	<a href="http://crmbetc.azurewebsites.net/api/emaillists/update?id=12&amp;flag=true">http://crmbetc.azurewebsites.net/api/emaillists/update?id=12&amp;flag=true</a>

Type	Param name	Values
URL_PARAM	id	Integer (the id of email list to update)
URL_PARAM	flag	Bool ( true- add contacts to list, false delete )

Type	Values
Post_Body_Param	<pre>[   "80e4b849-d711-4335-936f-598780906704",   "33b304fa-664d-4224-b9f4-bd4e3eeba876" ]</pre>

#### Response

Status	Response
200 OK	<pre>{   "EmailListID": 12,   "EmailListName": "All3",   "Contacts": [     {       "Full Name": "Aghasi Lorsabyan",       "Company Name": "TUMO",       "Position": "Mentor",       "Country": "Armenia",       "Email": "lorsabyan@gmail.com",       "GuID": "33b304fa-664d-4224-b9f4-bd4e3eeba876"     },     {       "Full Name": "Tatevik Vardanyan",       "Company Name": "Mic Armenia", </pre>

	<pre> "Position": "Developer", "Country": "Armenia", "Email": "tatevik@gmail.com", "GuID": "80e4b849-d711-4335-936f-598780906704" } ] } </pre>
404 Not Found	If email list with such id is not found in database
400 Bad Request	Exception and InnerException Message
500 Internal Server Error	

### 3.4 Put (updates email list)

Updates specific email list

#### Request

Method	URL
Put	<a href="http://crmbetc.azurewebsites.net/api/emaillists">http://crmbetc.azurewebsites.net/api/emaillists</a>

Type	Values
Post_Body_Param	<pre> {   "EmailListID": 1,   "EmailListName": "All",   "Contacts": [     "1d8cecd5-2d4c-43c1-bcd1-085664eb6bdc",     "943d9186-6350-4ecb-a826-048a0306228a"   ] } </pre> <p>The <b>"Contacts"</b> field is optional and can be ignored in request (in this case the contacts of email list will not be changed)</p>

#### Response

Status	Response
200 OK	<pre> {   "EmailListID": 1,   "EmailListName": "All",   "Contacts": [     {       "Full Name": "Aghasi Lorsabyan",       "Company Name": "TUMO",       "Position": "Mentor",       "Country": "Armenia",       "Email": "lorsabyan@gmail.com",       "GuID": "1d8cecd5-2d4c-43c1-bcd1-085664eb6bdc"     },     {       "Full Name": "Tatevik Vardanyan",       "Company Name": "Mic Armenia",       "Position": "Developer",       "Country": "Armenia",       "Email": "tatevik@gmail.com",       "GuID": "943d9186-6350-4ecb-a826-048a0306228a"     }   ] } </pre>

404 Not Found	If email list with such id is not found in database
400 Bad Request	Exception and InnerException Message
500 Internal Server Error	

### 3.5 Post (creates email list)

Creates new email list

#### Request

Method	URL
Post	http://crmbetc.azurewebsites.net/api/emaillists

Type	Values
Post_Body_Param	<pre>{   "EmailListName": "All 2",   "Contacts": [     "1d8cecd5-2d4c-43c1-bcd1-085664eb6bdc",     "943d9186-6350-4ecb-a826-048a0306228a"   ] }</pre> <p>The <b>"Contacts"</b> field is optional and can be ignored in request (in this case the created email list will be empty)</p>

#### Response

Status	Response
200 OK	<pre>{   "EmailListID": 22,   "EmailListName": "All 2",   "Contacts": [     {       "Full Name": "Aghasi Lorsabyan",       "Company Name": "TUMO",       "Position": "Mentor",       "Country": "Armenia",       "Email": "lorsabyan@gmail.com",       "GuID": "1d8cecd5-2d4c-43c1-bcd1-085664eb6bdc"     },     {       "Full Name": "Tatevik Vardanyan",       "Company Name": "Mic Armenia",       "Position": "Developer",       "Country": "Armenia",       "Email": "tatevik@gmail.com",       "GuID": "943d9186-6350-4ecb-a826-048a0306228a"     }   ] }</pre>
400 Bad Request	Exception and InnerException Message
500 Internal Server Error	

### 3.6 Delete (by id)

Deletes the specific email list by Id

#### Request

Method	URL
DELETE	http://crmbetc.azurewebsites.net/api/emaillists?id=1

Type	Param name	Values
URL_PARAM	id	number

#### Response

Status	Response
200 OK	
400 Bad Request	Exception and InnerException Message
404 Not Found	If email list with such guid is not found in database



## 4 Send Email

### 4.1 Post

Sends emails to contacts by guid

#### Request

Method	URL
Post	http://crmbetc.azurewebsites.net/api/sendemails?template=1

Type	Param name	Values
URL_PARAM	template	number
Post_Body_Param	Array of Guids	[ "b3e48661-7979-440d-bf33-c8da8ed2cb62", "Dab7e4fb-171f-4e65-8a5a-7640fb113fe5" ]

#### Response

Status	Response
200 OK	
400 Bad Request	
500 Internal Server error	

### 4.2 Post

Sends emails to contacts by email list id

#### Request

Method	URL
Post	http://crmbetc.azurewebsites.net/api/sendemails?template=3&emaillistId=1

Type	Param name	Values
URL_PARAM	template	number
URL_PARAM	emaillistId	number

#### Response

Status	Response
200	
400 Bad Request	
500 Internal Server error	

## 5 Email Templates

### 5.1 Get

Gets all templates

#### Request

Method	URL
Get	http://crmbetc.azurewebsites.net/api/templates

#### Response

Status Code	Response Body
200	An array of templates <pre>[   {     "TemplateId": 1,     "TemplateName": "NewYear.html"   },   {     "TemplateId": 2,     "TemplateName": "BirthdayWish.html"   },   {     "TemplateId": 3,     "TemplateName": "LabourDay.html"   } ]</pre>
400 Bad Request	Exception and InnerException Message
404 Not Found	
500 Internal Server Error	