

Kütüphane

Method Parameter Matrix

	GET	PUT/POST/PATCH	GET	GET	GET	GET	GET
	U	U or U/{id}	U/{id}	U/count	U/access	U/new	U/describe
sessionId	●	●	●	●	●	●	●
limit	●						
offset	●						
sort	●						
expandLevel	●	●	●	●		●	●
fields	●	●	●	●		●	
withCount	●					●	
q	●			●		●	
filters	●						
date	●						
Notes	U = <a href="http://restpath/api/v1.0/<className>">http://restpath/api/v1.0/<className> ● = Optional parameter ● = Required parameter ● = Optional parameter, valid for returned Json body						

Parameters

sessionId	<p>Required for all methods. It is a Guid value returned by the /login.</p> <p>After a successful login operation, an internal session is created in the web service, with its own securedObjectSpace and SQL transaction pool.</p> <p>Example:</p> <p>http://yourserver/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513</p>
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limit	<p>Sets the number of records returned by GET operations.</p> <p>Can be used to support pagination. The maximum number can be 100, default number is 25 if this parameter is omitted.</p> <p>Example:</p> <p>http://yourserver/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&limit=50</p> <p>http://yourserver/api/v1.0/products?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&offset=0&limit=100</p>
offset	<p>Sets the starting point of the records that will be returned by GET operations.</p> <p>Can be used to support pagination. The default number is 0.</p> <p>Example:</p> <p>http://yourserver/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&limit=50</p> <p>http://yourserver/api/v1.0/products?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&offset=0&limit=100</p>
sort	<p>Sets the order of the records that will be returned by GET operations.</p> <p>Multiple fields can be used to set the sort order. This parameter must be used with consideration on large databases since setting the sort order will not examine if the field(s) specified are indexed or not, on SQL level. Default sort order is Ascending. When DESC is used with the field name, sort order will be descending.</p> <p>Example:</p> <p>http://yourserver/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&sort=FirmCode,FirmTitle</p> <p>http://yourserver/api/v1.0/products?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&sort=FirmTitle+DESC, SalesRep.SalesRepPersonInfo.LastName</p>

expandLevel	<p>Sets the hierarchy to full or none level, for the returned Json body.</p> <p>This option is used for nested business objects. Only full and none values are supported by this parameter. Suppose that the business object being queried or returned as a result is like:</p> <pre>{ FirmCode : string, FirmTitle: string, SalesRep: CT_SalesRep }</pre> <p>Example:</p> <p>http://yourserver/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&expandLevel=none</p> <p>Returns:</p> <pre>{ FirmCode : "000000", FirmTitle: "XYZ Company", }</pre> <p>http://yourserver/api/v1.0/products?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&expandLevel=full</p> <p>Returns:</p> <pre>{ FirmCode : "000000", FirmTitle: "XYZ Company", SalesRep: { FirstName: "John", LastName: "Adams" } }</pre>
fields	<p>Sets the field(s)/properties of the business object that will be returned in the Json body.</p> <p>This parameter can be used for returning a partial Json body from the GET methods. Recommended when a certain number of records needed, in order to construct a grid or report in the UI.</p> <p>Also, you can include the properties/names of the nested business objects in the list.</p>

For example, if we have two classes like this:

Firm:

```
{  
    FirmCode : string,  
    FirmTitle: string,  
    SalesRep: CT_SalesRep,  
    TaxOffice: string,  
    TaxNo: string  
}
```

CT_SalesRep:

```
{  
    FirstName: string,  
    LastName:string  
}
```

Usage:

<http://yourserver/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&fields=FirmCode,FirmTitle>

Returns:

```
{  
    FirmCode : "000000",  
    FirmTitle: "XYZ Company"  
}
```

<http://yourserver/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&fields=FirmCode,FirmTitle,FirstName>

Returns:

```
{  
    FirmCode : "000000",  
    FirmTitle: "XYZ Company",  
    SalesRep : {  
        FirstName: "John"  
    }  
}
```

wit hC ou nt	<p>Sets if the total number of records will be returned by GET operations, depending on other parameters.</p> <p>Value of this parameter can be true or false. Please note that the result count value will not be affected by limit parameter, but it will be affected by q parameter.</p> <p>If set to true, a sample returned Json will look like:</p> <pre>{ "Result": 1, "Message": "", "Count": 28, "Items": [{ "Oid": "b293a022-3a92-47c1-bb57-76dc57b42369", "FirmCode": "0000000000000000", . }] }</pre> <p>If not set, "Count" pair will not be in the Json body.</p> <p>Example:</p> <p>http://yourserver/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&offset=0&limit=100&withCount=true</p>
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q	<p>Sets the query parameters for GET operations, in order to filter the result set.</p> <p>Since LogoCRM is based on the XAF (eXpressApp Framework) by Developer Express, q parameter will expect a valid Criteria, based on the special Criteria Language Syntax.</p> <p>For details please visit:</p> <p>https://documentation.devexpress.com/#CoreLibraries/CustomDocument4928</p> <p>Example:</p> <p>http://yourserver/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&withCount=true&offset=0&limit=25&q=FirmTitle+Like+'A%'\&expandLevel=full&sort=FirmCode</p> <p>http://yourserver/api/v1.0/products?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&q=FirmTitle+Like+'A%'+AND+SalesRep.SalesRepPersonInfo.FirstName='John'</p>
filters	<p>You can filter your list to contain only items which match a simple logical expression using the &filters parameter.</p> <p>Syntax: for this is &filters=(Column Internal Name operator value).</p>

Data Updating Methods

P UT	<p>Used to update data. If the object constructed from the input body of the request (Json body) can not be located in the database, an error will be returned. All validation rules will be applied.</p> <p>Example:</p> <pre>{ "Result": 0, "Message": "(-306) Operation failed. Object can not be located: 2f950d99-0e14-4ed0-a21c-099d51e28b6f" }</pre>
P O ST	<p>Used to insert data. A successful POST method will return a Json body of the specified business object. Also, expandLevel and fields parameter can be used to decorate the result Json as needed.</p>
P A T CH	<p>Used to update partial data. A successful PATCH method will return a Json body of the specified business object. Also, expandLevel and fields parameter can be used to decorate the result Json as needed.</p> <p>Please note that PATCH method will not set any fields to NULL. Only values will be updated. If you need to set a field/property to NULL, please use PUT method.</p>

(Notes)	<p>* Oid property exists in all business objects of LogoCRM. It is short for ObjectIdentifier and is unique identifier, auto-generated in SQL databases. Supplying an existing Oid in the request body of a POST operation will result in error:</p> <pre>{ "Result": 0, "Message": "(-304) Object with the following unique identifier already exists: 2f950d99-0e14-4ed0-a21c-079d51e28b6f" }</pre>
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Return Structures

LogonResult	http://yourserver/api/v1.0/login Returned after a /login call. Example: <pre>{ "Result": 1, "Message": "", "SessionId": "1c343a55-bdbc-4363-886c-4ec6952d5ade" }</pre>
Result	0 - Error, 1 - Success.
Message	Empty if successful, otherwise contains the error message.
SessionId	Returns a Guid for using as a parameter in other methods

LogoutResult	http://yourserver/api/v1.0/logout Returned after a /logout call Example: <pre>{ "Result": 1, "Message": "" }</pre> Or <pre>{ "Result": 0, "Message": "(-221) SessionId not found: e61e4c99-e33c-4952-9e90-ec8d6fd69b6e" }</pre>
Result	0 - Error, 1 - Success.
Message	Empty if successful, otherwise contains the error message.
AccessResult	http://yourserver/api/v1.0/businessobject/access Returned after a /access call. Can be used to get the logged in user's role settings for a business object. Example: <pre>{ "Result": 1, "Message": "", "CanRead": true, "CanWrite": true, "CanCreate": true, "CanDelete": true, "CanNavigate": true }</pre>
Result	0 - Error, 1 - Success.
Message	Empty if successful, otherwise contains the error message.
CanRead	True or False . Returns true if the logged in user can read the business object.
CanWrite	True or False . Returns true if the logged in user can update the business object.

CanCreate	True or False . Returns true if the logged in user can insert a new business object.
CanDelete	True or False . Returns true if the logged in user can delete the business object.
CanNavigate	True or False . Returns true if the logged in user can list the business object. Please note that if this value is false, GET operation will always result in an empty set.
CountResult	http://yourserver/api/v1.0/businessobject/count Returned after a /count call Example: <pre>{ "Result": 1, "Message": "", "Count": 32 }</pre>
Result	0 - Error, 1 - Success.
Message	Empty if successful, otherwise contains the error message.
Count	Contains the number of records, depending on the parameters.

ObjectResult	<p>http://yourserver/api/v1.0/businessobject</p> <p>Returned after a /businessobject call by the GET method.</p> <p>Example:</p> <pre>{ "Result": 1, "Message": "", "Count": 32, "Items": [{ "Oid": "2f950d99-0e14-4ed0-a21c-079d51e28b6f", "FirmCode": "00000000000021500", "FirmTitle": "Koç Yatirim-Updated", "_CreatedBy": { "Oid": "3d6b98e2-ebd2-4afb-8c04-d753c3993beb", "FirstName": "Berna" } }] }</pre>
Result	0 - Error, 1 - Success.
Message	Empty if successful, otherwise contains the error message.
Count	Contains the number of records, if withCount parameter is used.
Items	Contains the specified records of the business object. Structure depends on the class structure of the business object.

OperationResult	<p>POST/PUT/PATCH/DELETE:</p> <p>http://yourserver/api/v1.0/businessobject</p> <p>http://yourserver/api/v1.0/businessobject/{Oid}</p> <p>GET:</p> <p>http://yourserver/api/v1.0/businessobject/new</p> <p>Returned after a /businessobject or /businessobject/new call by the applied POST/PUT/PATCH /DELETE/GET methods.</p> <p>Example:</p> <pre>{ "Result": 1, "Message": "", "Item": { "Oid": "2f950d99-0e14-4ed0-a21c-079d51e28b6f", "FirmCode": "00000000000021500", "FirmTitle": "Koç Yatirim-Updated", "InUse": false, } }</pre>
Result	0 - Error, 1 - Success.
Message	Empty if successful, otherwise contains the error message.
Item	Contains the specified business object. Structure depends on the class structure of the business object. Value is null after a DELETE operation.
DescribeResult	<p>POST/PUT/PATCH/DELETE:</p> <p>http://yourserver/api/v1.0/businessobject/describe</p> <p>Returned after a /businessobject/describe by GET method.</p> <p>Example:</p> <pre>{</pre>

```

"Result": 1,

"Caption": "Activity",

"ClassName": "MT_Activity",

"FullClassName": "logocrm.net.Module.BusinessObjects.MT_Activity",

"ValidationsOnSave": "comparison_ActivityCanUseContact: ActivityContact.ContactRole.
CanUseInActivities = True

comparison_ActivityDateMustBeLessThanRepeatDate: ActivityRepeatDate IS NULL OR
ActivityDate <= ActivityRepeatDate

comparison_ActivityCanUseFirm: ActivityFirm.FirmRole.CanUseInActivities = True",

"ValidationsOnDelete": null,

"Properties": [

  {

    "Property": "Id",

    "PropertyType": "String",

    "PropertyCaption": "Id",

    "Size": 42,

    "Required": true,

    "Notes": "Value is auto generated",

    "Validations": "Value is auto generated",

  },

  {

    "Property": "ActivitySubject",

    "PropertyType": "String",

    "PropertyCaption": "Subject",

    "Size": 120,

    "Required": false

  },

  .

  .

  .

```

Result 0 - Error, 1 - Success.

Message Empty if successful, otherwise contains the error message.

ClassName	Contains the ClassName and DB Table name of the business object.
FullClassName	Contains the class name of the business object, including the assembly name space.
Validations OnSave	Contains if there are validation rules defined for the business object, before a save operation.
Validations OnDelete	Contains if there are validation rules defined for the business object, before a delete operation.
Property	Name of the property of the business object.
PropertyType	Type of the property.
PropertyCaption	A short description of the property. This value is used in the UI at the same time.
Size	Size of the property, if the PropertyType = String. -1 means unlimited.
Required	True if this property can not be left empty. This is obtained from validation rules.
Notes	Contains additional notes about the property, if its value must be Unique, etc.
Validations	Contains the defined validation rules for the property, before a save or delete operation.

URIs

<base> = <http://yourhost/api/v1.0>

bo = businessobject (see list)

Verb	Method	Request	Description
<base>/bo	GET	none	Gets the list of business objects. Example: http://localhost:53417/api/v1.0/firms
<base>/bo/{id}	GET	none	Gets the specified business object. id is OID . Example: http://localhost:53417/api/v1.0/firms/2F950D99-0E14-4ED0-A21C-079D51E28B6F
<base>/bo/calculate	POST	JSON	Performs some necessary business-object-internal calculations. Not effective on every business object. Recommended for proposals. For proposal, gets the price of the product if not set, calculates totals. id is OID . Example: http://localhost:53417/api/v1.0/proposals/calculate

<base>/bo/{id}/ {collection}	G ET	no ne	Gets the collection of the specified property of the business object. Example: <a 2f950d99-0e14-4ed0-a21c-079d51e28b6f="" api="" f798b922-13a6-4b9c-a7ff-c9a4ef109490"="" firmcontacts="" firms="" href="http://localhost:53417/api/v1.0/firms/2F950D99-0E14-4ED0-A21C-079D51E28B6F/FirmContacts?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd&expandLevel=none&FirstName+Like+'A%'>http://localhost:53417/api/v1.0/firms/2F950D99-0E14-4ED0-A21C-079D51E28B6F/FirmContacts?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd&expandLevel=none&FirstName+Like+'A%</td></tr> <tr> <td><base>/bo/{id}/
{collection}/id</td><td>G
ET</td><td>no
ne</td><td>Gets the specified item in the collection property of the business object (id is the Oid of the collection item)

Example:

http://localhost:53417/api/v1.0/firms/2F950D99-0E14-4ED0-A21C-079D51E28B6F/FirmContacts/F798B922-13A6-4B9C-A7FF-C9A4EF109490
<base>/bo/ /count	G ET	no ne	Gets number of records of the business object Example: <a access?sessionid='369a98e2-385f-4ee6-aadb-7fb828892abd"' api="" firms="" href="http://localhost:53417/api/v1.0/firms/count?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd&expandLevel=none&FirstName+Like+'A%'>http://localhost:53417/api/v1.0/firms/count?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd&expandLevel=none&FirstName+Like+'A%</td></tr> <tr> <td><base>/bo/
/access</td><td>G
ET</td><td>no
ne</td><td>Gets number role permissions of the logged in user based on the specified business object

Example:

http://localhost:53417/api/v1.0/firms/access?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd
<base>/bo/ /new	G ET	no ne	Returns a full json object with the default values assigned. Correct way to use before inserting a new record. Example: http://localhost:53417/api/v1.0/firms/new?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd
<base>/bo/ /describe	G ET	no ne	Returns a list of properties of the specified business object, with explanation, in a Json body. Example: http://localhost:53417/api/v1.0/firms/describe?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd http://localhost:53417/api/v1.0/firms/describe?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd?expandLevel=full
<base>/bo	P O ST	Js on	Inserts a new record. Example: http://localhost:53417/api/v1.0/firms
<base>/bo	PUT	Js on	Updates the specified business object. Json body should include Oid . Example: http://localhost:53417/api/v1.0/firms
<base>/bo/ {id}	PUT	Js on	Updates the specified business object. Id is Oid . Example: http://localhost:53417/api/v1.0/firms/2F950D99-0E14-4ED0-A21C-079D51E28B6F

<base>/bo	PA TCH	Js on	Updates the specified business object partially. Json body should include Oid . Example: http://localhost:53417/api/v1.0/firms
<base>/bo/ {id}	PA TCH	Js on	Updates the specified business object partially. Id is Oid . Example: http://localhost:53417/api/v1.0/firms/2F950D99-0E14-4ED0-A21C-079D51E28B6F
<base>/bo/ {id}	D EL ETE	no ne	Deletes the specified business object. Id is Oid . Example: http://localhost:53417/api/v1.0/firms/2F950D99-0E14-4ED0-A21C-079D51E28B6F
<base>/bo/ {id}/ {collection}/ {cid}	P O ST	no ne	Adds the new Json object to the collection property of the business object. Collection item specified by id should exist (cid is Oid of the collection item). Example: http://localhost:53417/api/v1.0/firms/2F950D99-0E14-4ED0-A21C-079D51E28B6F/FirmContacts?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd
<base>/bo/ {id}/ {collection}/ {cid}	D EL ETE	no ne	Removes the specified item from the collection property of the business object. (cid is the Oid of the collection item) Example: http://localhost:53417/api/v1.0/firms/2F950D99-0E14-4ED0-A21C-079D51E28B6F/FirmContacts/F798B922-13A6-4B9C-A7FF-C9A4EF109490

Specific Methods

Verb	M et h od	Req uest	Description
<base> /unitsForProduct/ {productOid}	G ET	none	Gets the units that are available for a product. Example: http://localhost:53417/api/v1.0/unitsForProduct/523183FB-AB35-4543-B82F-0046597D1381?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd

<base>/search	GET	none	<p>Searches all pre-designated business objects for a pattern or keyword. All Extra Search Settings are implemented.</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/search?searchKeyword=izmir?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns a json structure according to the following classes:</p> <pre> public class LogoCRM_SearchKeywordItem { public string BOClassName { get; set; } public string BOOid { get; set; } public string Description { get; set; } public string SubDescription { get; set; } public int ExtraIntegerField { get; set; } public string ExtraStringField { get; set; } } public class LogoCRM_SearchKeywordResult { public Meta Meta { get; set; } public Int16 Result { get; set; } public string Message { get; set; } public int? Count { get; set; } public List<LogoCRM_SearchKeywordItem> Items { get; set; } } </pre>
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<base>/userSummary	GET	none	<p>Returns user summary items for the logged in user, a summary of customized or default items, as seen on the start screen of LogoCRM. Unfinished tasks, today's events, etc.</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/userSummary?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns a json according to the following classes:</p> <pre> public class LogoCRM_UserSummaryItem { public string BOClassName { get; set; } public string ItemCaption { get; set; } public string ItemCriteria { get; set; } public int Count { get; set; } } public class LogoCRM_UserSummaryResult { public Meta Meta { get; set; } public Int16 Result { get; set; } public string Message { get; set; } public int? NewShares { get; set; } public string NewSharesFilter { get; set; } public int? Notifications { get; set; } public string NotificationsFilter { get; set; } public int? UnfinishedTasks { get; set; } public string UnfinishedTasksFilter { get; set; } public int? ProposalsWaitingForApproval { get; set; } public string ProposalsWaitingForApprovalFilter { get; set; } public int? ProposalsWaitingForAction { get; set; } public string ProposalsWaitingForActionFilter { get; set; } public List<LogoCRM_UserSummaryItem> SummaryItems { get; set; } } </pre> <p>SummaryItems is a list of customized items for a specific customer/installation.</p>
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<base>/proposals /sendForApproval/{id}/ {userId}	G ET	none	<p>Sends a proposal to the selected user, for approval.</p> <p>{id} is the Oid for the proposal (MT_Proposals).</p> <p>{userId} is the Oid for the user (ST_User).</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/proposals/sendForApproval/ 920EF823-50D5-4245-8879-243A824D8B68/ 2A826941-DFE9-4033-80F0-3516804E2960?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>
<base>/proposals /approve/{id}/ {userId}	G ET	none	<p>Approves a proposal, which is sent to the user.</p> <p>{id} is the Oid for the proposal (MT_Proposals).</p> <p>{userId} is the Oid for the user (ST_User).</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/proposals/approve/ 920EF823-50D5-4245-8879-243A824D8B68/ 2A826941-DFE9-4033-80F0-3516804E2960?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>
<base>/proposals/deny/ {id}/{userId}	G ET	none	<p>Denies a proposal, which is sent to the user for approval.</p> <p>{id} is the Oid for the proposal (MT_Proposals).</p> <p>{userId} is the Oid for the user (ST_User).</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/proposals/approve/ 920EF823-50D5-4245-8879-243A824D8B68/ 2A826941-DFE9-4033-80F0-3516804E2960?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>

<base>/proposals/changeState/{id}/{userId}/{newState}	GET	none	<p>Changes the state of a proposal.</p> <p>{id} is the Oid for the proposal (MT_Proposals).</p> <p>{userId} is the Oid for the user (ST_User).</p> <p>{newState} can be one of the following:</p> <pre>public enum ENUM_ProposalStates { Ongoing = 0, Sale = 1, SaleCancelled = 2, CustomerCancelled = 3, Negative = 4 }</pre> <p>Example:</p> <p>http://localhost:53417/api/v1.0/proposals/changeState/920EF823-50D5-4245-8879-243A824D8B68/2A826941-DFE9-4033-80F0-3516804E2960/4?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>
<base>/proposals/newRevisal/{id}	GET	none	<p>Prepares a new revisal for the selected proposal.</p> <p>{id} is the Oid of the proposal.</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/proposals/newRevisal/920EF823-50D5-4245-8879-243A824D8B68?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>
<base>/proposals/saveRevisal/{id}	PUT	Revisal JSON	<p>Saves the prepared revisal for the selected proposal.</p> <p>{id} is the Oid of the proposal.</p> <p>Revisal JSON must be in the body of the request.</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/proposals/saveRevisal/920EF823-50D5-4245-8879-243A824D8B68?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>

<base>/proposals /addProduct/{id}/ {productOid}	P UT	none	<p>Adds the new product line to the proposal</p> <p>{id} is the Oid of the proposal.</p> <p>{productOid} is the Oid of the product (MT_Product).</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/proposals/addProduct/ 920EF823-50D5-4245-8879-243A824D8B68/ 45504F08-0EAB-4FFA-95B2-3D4EEBAFA64D?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>
<base>/proposals /updateProduct/{id}	P UT	Product JSON	<p>Updates a product line in a proposal.</p> <p>{id} is the Oid of the proposal.</p> <p>MT_Proposals_Product JSON must be in the request body. Every product line in a proposal must have a unique Oid.</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/proposals/updateProduct/ 920EF823-50D5-4245-8879-243A824D8B68?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>
<base>/proposals /removeProduct/{id}/ {Oid}	D E L E TE	none	<p>Removes the product line from the proposal.</p> <p>{id} is the Oid of the proposal.</p> <p>{Oid} is the Oid of the product line (MT_Proposals_Product).</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/proposals/removeProduct/ 920EF823-50D5-4245-8879-243A824D8B68/ 45504F08-0EAB-4FFA-95B2-3D4EEBAFA64D?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>
<base>/proposals /prepare/{id}/ {reportOid}	G ET	none	<p>Prepares a PDF,RTF,HTML,MHT,XLS,XLSX for a specified proposal.</p> <p>{id} is the Oid of the proposal.</p> <p>{reportOid} is the Oid of the selected report (ST_Reports).</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/proposals/prepare/ 920EF823-50D5-4245-8879-243A824D8B68/7A83B117-BEFE-4AF8-8A82-CBA55C3BBF9B?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>

<base>/proposals /savePrepare/{id}	P UT	Rep ort Json	<p>Saves the prepared form for a proposal.</p> <p>{id} is the Oid of the proposal.</p> <p>Prepared form object must be in the request body according to the class:</p> <pre> public Guid Oid { get; set; } public rMT_Proposals RelatedProposal { get; set; } public string RevisalId { get; set; } public ENUM_ProposalApprovalState ApprovalState { get; set; } public string FormName { get; set; } public string PrepareFormBase64 { get; set; } public string Notes { get; set; } public string DisplayName { get; set; } public string FormFileName { get; set; } public ENUM_PreparedFormTypes DocumentType { get; set; } public Guid SelectedReport { get; set; } public enum ENUM_ProposalApprovalState { NotInApprovalProcess = 0, WaitingForApproval = 1, PartiallyApproved = 2, Approved = 3, Denied = 4 } public enum ENUM_PreparedFormTypes { PDF = 0, HTML = 1, MHT = 2, XLS = 3, XLSX = 4, RTF = 5 } </pre> <p>Example:</p> <p>http://localhost:53417/api/v1.0/proposals/savePrepare/920EF823-50D5-4245-8879-243A824D8B68?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>
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<base>/tickets /addProduct/{id}/ {productOid}	P UT	none	<p>Adds the new product line to the support ticket</p> <p>{id} is the Oid of the support ticket.</p> <p>{productOid} is the Oid of the product (MT_Product).</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/tickets/addProduct/ 920EF823-50D5-4245-8879-243A824D8B68/ 45504F08-0EAB-4FFA-95B2-3D4EEBAFA64D?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>
<base>/tickets /updateProduct/{id}	P UT	Product JSON	<p>Updates a product line in a support ticket.</p> <p>{id} is the Oid of the support ticket.</p> <p>RI_Ticket_Product JSON must be in the request body. Every product line in a proposal must have a unique Oid.</p> <pre>public class RI_Ticket_Product { public Guid Oid { get; set; } public MT_Product RelatedProduct { get; set; } public double Amount { get; set; } public string NotesAndDescription { get; set; } public MT_Ticket Ticket { get; set; } }</pre> <p>// RelatedProduct may only contain the Oid</p> <p>// Ticket may only contain the Oid</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/tickets/updateProduct/ 920EF823-50D5-4245-8879-243A824D8B68?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>

<base>/tickets /removeProduct/{id}/ {Oid}	D E L E T E	none	<p>Removes the product line from the support ticket.</p> <p>{id} is the Oid of the proposal.</p> <p>{Oid} is the Oid of the product line (RI_Ticket_Product).</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/tickets/removeProduct/ 920EF823-50D5-4245-8879-243A824D8B68/ 45504F08-0EAB-4FFA-95B2-3D4EEBAFA64D?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>
<base>/tickets/prepare/ {id}/{reportOid}	G E T	none	<p>Prepares a PDF,RTF,HTML,MHT,XLS,XLSX for a specified support ticket.</p> <p>{id} is the Oid of the support ticket.</p> <p>{reportOid} is the Oid of the selected report (ST_Reports).</p> <p>Example:</p> <p>http://localhost:53417/api/v1.0/tickets/prepare/ 920EF823-50D5-4245-8879-243A824D8B68/7A83B117-BEFE-4AF8-8A82-CBA55C3BBF9B?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>

<base>/tickets /savePrepare/{id}	PUT	Report Json	<p>Saves the prepared form for a support ticket.</p> <p>{id} is the Oid of the support ticket.</p> <p>Prepared form object must be in the request body according to the class:</p> <pre>public class MT_Ticket_Prepared_Forms { public Guid Oid { get; set; } public MT_Ticket RelatedTicket { get; set; } public string FormName { get; set; } public string PrepareFormBase64 { get; set; } public string Notes { get; set; } public string DisplayName { get; set; } public string FormFileName { get; set; } public ENUM_PreparedFormTypes DocumentType { get; set; } public Guid SelectedReport { get; } }</pre> <p>// RelatedTicket (MT_Ticket) may only contain the Oid</p> <pre>public enum ENUM_PreparedFormTypes { PDF = 0, HTML = 1, MHT = 2, XLS = 3, XLSX = 4, RTF = 5 }</pre> <p>Example:</p> <p>http://localhost:53417/api/v1.0/tickets/savePrepare/920EF823-50D5-4245-8879-243A824D8B68?SessionId=369a98e2-385f-4ee6-aadb-7fb828892abd</p> <p>Returns an OperationResult.</p>
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Business Objects (Main classes, MT_ Prefix)



Image	Verb	ClassName (DB TableName)	Notes	Collection	Collection Verb
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	firms	MT_Firm	Firmalar	Contacts Events Activities Documents Notes Opportunities Proposals Related products Action lists Tickets Action list types Sectors Addresses Phone numbers	FirmContacts EventOid FirmActivities DocumentOid NotesOid FirmOpportunities FirmProposals RelatedProductsOid FirmActionLists TicketsOid ListTypes SectorOid AddressOid PhoneNumberOid
	Products (items)	MT_Product	Ürünler	Documents Related firms Activities Opportunities Tickets Prices Units sets	DocumentOid RelatedFirmsOid RelatedActivityOid RelatedOpportunityOid RelatedTicketOid ProductPriceOid UnitCollectionOid
	events	MT_Event	Takvim	Activities Firms Contacts Documents Opportunities Users	ActivityOid FirmOid ContactOid DocumentOid OpportunityOid Resources
	activities	MT_Activity	Aktiviteler	Documents Sales representatives Opportunities Related products Related proposals Events	DocumentOid SalesRepOid OpportunityOid RelatedProductsOid RelatedProposalsOid EventOid

	actionLists	MT_Action_Lists	İşlem listeleri	Firms Contacts	FirmOid ContactsOid
	campaigns	MT_Campaign	Kampanyalar	Action list types Events	ListTypes CampaignEvents
	campaignLists	MT_Campaign_Lists	Kampanya listeleri	•	•
	contacts	MT_Contact	Kişiler	Events Activities Documents Notes Opportunities Proposals Action lists Tickets Action list types Addresses Phone numbers	EventOid ContactActivities DocumentOid NotesOid ContactOpportunities ContactProposals ContactActionLists TicketsOid ListTypes AddressOid PhoneOid
	notes	MT_Notes	Notlar	Users User departments Firms Contacts	UserOid DepartmentOid FirmOid ContactOid
	notifications	MT_Notifications	Bildirimler	•	•
	opportunities	MT_Opportunity	Fırsatlar	Documents Activities Events Tasks Related products Related proposals	DocumentOid ActivityOid EventOid TaskOid RelatedProductsOid RelatedProposalsOid
	productPrices	MT_Product_Prices	Ürün fiyatları	•	•

	proposals	MT_Proposals	Teklifler	Revisals History Activities Prepared forms Approvals Documents ERP objects Products	ProposalRevisals ProposalHistory RelatedActivityOid PreparedFormsOid ProposalApprovals DocumentOid ERPObjects ProposalsProductsOid
	proposalRevisals	MT_Proposals_Revisals	Teklif revizeleri	Products	RevisalProductsOid
	proposalHistory	MT_Proposals_History	Teklif tarihçesi	•	•
	proposalForms	MT_Proposals_ Prepared_Forms	Teklif hazırlanan formlar	•	•
	proposalProducts	MT_Proposals_Products	Teklif içindeki ürünler	•	•
	proposalApprovals	MT_Proposals_Approvals	Teklif onayları	•	•
	shares	MT_Shares	Paylaşımlar	•	•
	tickets	MT_Ticket	Destek kayıtları	Ticket states Assignments Prepared forms Proposals Products Documents	TicketStates TicketAssignments PreparedFormsOid RelatedProposalsOid RelatedProductsOid DocumentOid
	ticketForms	MT_Ticket_Prepared_Forms	Destek kayıtları hazırlanan formlar	•	•
	tasks	MT_Task	Görevler	Documents Opportunities Users	DocumentOid OpportunityOid UserOid

Business Objects (Code classes, CT_ Prefix)

Image	Verb	ClassName (DB TableName)	Notes	Collection	Collection Verb
	activityCategories	CT_Activity_Category	Aktivite kategorileri	•	•
	activityStates	CT_Activity_States	Aktivite durumları	•	•

	activityTypes	CT_Activity_Types	Aktivite türleri	•	•
	campaignCostTypes	CT_Campaign_Cost_Types	Kampanya masraf türleri	•	•
	campaignTypes	CT_Campaign_Types	Kampanya türleri	•	•
	contactRoles	CT_Contact_Roles	Kişi rolleri	•	•
	contractStates	CT_Contract_States	Sözleşme durumları	•	•
	contractTypes	CT_Contract_Types	Sözleşme türleri	•	•
	currencyTypes	CT_Currency_Types	Döviz türleri	•	•
	firmRoles	CT_Firm_Roles	Firma rolleri	•	•
	incoterm	CT_Incoterm	Incoterm	•	•
	jobTitles	CT_Job_Titles	İş pozisyon/görevleri	•	•
	listTypes	CT_List_Types	İşlem listesi türleri	•	•
	opportunitySources	CT_Opportunity_Sources	Fırsat kaynakları	•	•
	opportunityStages	CT_Opportunity_Stages	Fırsat aşamaları	•	•
	opportunityStagesCriteria	CT_Opportunity_Stages_Criteria	Fırsat aşama kriterleri	Criteria collection	CriterionOid
	opportunityTypes	CT_Opportunity_Types	Fırsat türleri	•	•
	priceTypes	CT_Price_Types	Ürün fiyat türleri	•	•
	productGroups	CT_Product_Groups	Ürün grupları	•	•
	proposalApprovalRules	CT_Proposal_Approval_Rules	Teklif onay tanımları	•	•
	proposalStages	CT_Proposal_Stages	Teklif aşamaları	Criteria collection	CriterionOid
	proposalStagesCriteria	CT_Proposal_Stages_Criteria	Teklif otomatik aşama kriterleri	Related stages	ProposalStageOid
	referenceSources	CT_Reference_Sources	Referans kaynakları (fırsatlar)	•	•
	roles	CT_Role	Roller	Users	UserId
	salesAreas	CT_Sales_Area	Satış bölgeleri	•	•
	salesReps (salesmen)	CT_Sales_Rep	Satış temsilcileri	•	•
	sectors	CT_Sectors	Sektörler	•	•
	subSectors	CT_Sub_Sectors	Alt sektörler	•	•
	ticketMainCategories	CT_Ticket_Main_Category	Destek kaydı ana kategoriler	•	•
	ticketStates	CT_Ticket_States	Destek kaydı durum tanımları	•	•
	ticketSubCategories	CT_Ticket_Sub_Category	Destek kaydı alt kategoriler	•	•
	ticketTypes	CT_Ticket_Types	Destek kaydı türleri	•	•
	units	CT_Units	Birimler	Unit collection references	RIUnitsRef

	unitCollections (unitSets)	CT_Units_Collections	Birim setleri	Unit references	RIUnitsRef
	userDepartments	CT_User_Departments	Kullanıcı departmanları	Notes Users	NotesOid UserOid

Business Objects (Generic classes, GK_ Prefix)

Image	Verb	ClassName (DB TableName)	Notes	Collection	Collection Verb
	firmCategories01	GK_Firm_Category01	Generic firma kategori tanımları-1	•	•
	firmCategories02	GK_Firm_Category02	Generic firma kategori tanımları-2	•	•
	firmCategories03	GK_Firm_Category03	Generic firma kategori tanımları-3	•	•
	firmCategories04	GK_Firm_Category04	Generic firma kategori tanımları-4	•	•
	firmCategories05	GK_Firm_Category05	Generic firma kategori tanımları-5	•	•
	productCategories01	GK_Product_Category01	Generic ürün kategori tanımları-1	•	•
	productCategories02	GK_Product_Category02	Generic ürün kategori tanımları-2	•	•
	productCategories03	GK_Product_Category03	Generic ürün kategori tanımları-3	•	•
	productCategories04	GK_Product_Category04	Generic ürün kategori tanımları-4	•	•
	productCategories05	GK_Product_Category05	Generic ürün kategori tanımları-5	•	•

Business Objects (Intermediate relations, RI_ Prefix)




Image	Verb	ClassName (DB TableName)	Notes	Collection	Collection Verb
	relationProduct_UnitCollection	RI_Product_Units_Collections_Properties	Ürün-Birim setleri N-N bağlantı ilişkisi tablosu	•	•
	relationUnit_UnitCollection	RI_Units_Collections_Properties	Birim-Birim setleri N-N bağlantı ilişkisi tablosu	•	•

Business Objects (Primitive objects, PO_ Prefix)

Image	Verb	ClassName (DB TableName)	Notes	Collection	Collection Verb
	addresses	PO_Address	Adresler	ERP sevkiyat adresleri	ERPShipmentAddresses
	shipmentLocations				
	addressTypes	PO_Address_Type	Adres türleri	•	•
	cities	PO_City	Şehirler	•	•
	countries	PO_Country	Ülkeler	•	•
	counties	PO_County	İlçeler	•	•
	districts	PO_District	Semtlar	•	•

	parishes	PO_Parish	Mahalleler	•	•
	persons	PO_Person	Kişi bilgileri	•	•
	phoneNumbers	PO_Phone_Number	Telefon numaraları	•	•
	preparedForms	PO_Prepared_Form	Hazırlanan formlar (Teklif, destek kayıtları, vb)	•	•
	socialMedia	PO_Social_Media	Sosyal medya linkleri (Firmalar, kişiler, vb)	•	•

Business Objects (Supporting tables, ST_ Prefix)

Image	Verb	ClassName (DB TableName)	Notes	Collection	Collection Verb
	exchangeRates	ST_Exchange_Rates	Döviz kurları	•	•
	reports	ST_Reports	Dizayn edilmiş raporlar	•	•
	users	ST_User	Kullanıcılar	Departments Roles Sales reps Integration sets	DepartmentOid RoleOid SalesRepOid IntegrationSetOid
	userAccessRights	ST_User_Access_Rights	Rollerde olmayan ek erişim hakları	•	•

Query Formats

Remember that all values must be properly **URL encoded**: &filters=url encoded

Number operators are used on the values of the following form items:

Operator	Description
equals	The value of the element is tested for <i>equality</i> against the specified value.
notequals	The value of the element is tested for <i>non-equality</i> against the specified value.
gt	Checks to see whether the value of the element is <i>greater than</i> the specified value.
lt	Checks to see whether the value of the element is <i>less than</i> the specified value.
gte	Checks to see whether the value of the element is <i>greater than or equal to</i> the specified value.
lte	Checks to see whether the value of the element is <i>less than or equal to</i> the specific

String Range

&filters=ColumnName[LT]=value
&filters=ColumnName[LTE]=value
&filters=ColumnName[GT]=value
&filters=ColumnName[GTE]=value
&filters=ColumnName[EQ]=value
&filters=ColumnName[NE]=value

Example:

- [http://yourserver/LogoCRMRest/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&filters=FirmCode\[LT\]=B001, FirmCode\[GE\]=A001](http://yourserver/LogoCRMRest/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&filters=FirmCode[LT]=B001,FirmCode[GE]=A001)

Numeric Range

&filters=ColumnName[LT]=value
&filters=ColumnName[LTE]=value
&filters=ColumnName[GT]=value
&filters=ColumnName[GTE]=value
&filters=ColumnName[EQ]=value
&filters=ColumnName[NE]=value

Example:

- [http://yourserver/LogoCRMRest/api/v1.0/activities?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&filters=Id\[LT\]=000047, Id\[EQ\]=000049](http://yourserver/LogoCRMRest/api/v1.0/activities?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&filters=Id[LT]=000047,Id[EQ]=000049)

Date Range

Time, date, and time stamp values must be provided in ISO 8601 extended format. For example, a time stamp for 21 Dec 2015 10:00 AM Pacific Standard Time must be given as: 2015-12-21T10:00:00-08:00 or 2015-12-21T18:00:00Z.

&filters=ColumnName[LT]=(YYYY-MM-DDTHH:MM:SS.SSSZ)
&filters=ColumnName[LTE]=(YYYY-MM-DDTHH:MM:SS.SSSZ)
&filters=ColumnName[GT]=(YYYY-MM-DDTHH:MM:SS.SSSZ)
&filters=ColumnName[GTE]=(YYYY-MM-DDTHH:MM:SS.SSSZ)
&filters=ColumnName[EQ]=(YYYY-MM-DDTHH:MM:SS.SSSZ)
&filters=ColumnName[NE]=(YYYY-MM-DDTHH:MM:SS.SSSZ)

Example:

- [http://yourserver/LogoCRMRest/api/v1.0/activities?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&filters=ActivityRepeatDate\[LT\]=\(2018-09- 14T15:44:00.0000\), ActivityRepeatDate\[GT\]=\(2018-09- 10T19:42:00.0000\)](http://yourserver/LogoCRMRest/api/v1.0/activities?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&filters=ActivityRepeatDate[LT]=(2018-09- 14T15:44:00.0000), ActivityRepeatDate[GT]=(2018-09- 10T19:42:00.0000))

List Selection

You must be familiar with the table's column names and values to create a query.

```
&filters=ColumnName=value
```

Example:

- <http://yourserver/LogoCRMRest/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&filters=InUse=1>

Group Selection

You can filter multiple values that are in the same table.

```
&filters= ColumnName=value1|value2
```

Example:

<http://yourserver/LogoCRMRest/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&filters=InUse=1|0>

Like

```
&filters=ColumnName[LIKE]=value,ColumnName[LIKE]=%value%
```

Example:

[http://yourserver/LogoCRMRest/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&filters=FirmCode\[LIKE\]=TURK](http://yourserver/LogoCRMRest/api/v1.0/firms?sessionId=02635e09-03c9-4fb0-af8f-e60cbd749513&filters=FirmCode[LIKE]=TURK)

Date Filter

When querying the records on Rest, the Getobjects () method should be read by adding "Date> _CreatedDateTime" or "Date> _LastModifiedDateTime" criteria when reading the relevant module from the database when "Date" information is received through QueryString. If "Date" information is not given in QueryString, it will be read as it is currently.

Example:

- [http://yourserver/LogoCRMRest/api/v1.0/firms?SessionId=70934929-2871-4b50-9540-393f7b983981&filters=Notes\[LIKE\]=543&date=2018-1-15T17:18:47.07](http://yourserver/LogoCRMRest/api/v1.0/firms?SessionId=70934929-2871-4b50-9540-393f7b983981&filters=Notes[LIKE]=543&date=2018-1-15T17:18:47.07)

filters	
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