OGAN.AI GENERIC WEB API DOCUMENTATION

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1. General information

1. All data post and get operations are encrypted via AES-256 CBC. Method is at below:

```
CipherMode.CBC
KeySize = 256
BlockSize = 128
Padding = PaddingMode.PKCS7;
FeedbackSize = rijAlg.BlockSize;
```

2. All data post and get operations are in json format.

Post data format:

System always use POST method.

```
"{\"optarget\":\"tableName\", \"optype\":\"tableRequestType\", \"opvalue\": \"pgidx\",
\"formid\":\"formId\",\"fieldname1\",\"fieldname1data\",\"fieldname2\",\"fieldname2data\"
}
```

Note: All data fields to be updated, inserted will be sent after basic parameters.

For “select” optype, opvalue means paging value. Default is 0. Fieldnames are used to selected data fields that will be shown.

To FILTER data, in posted url, you can sent data via GET method on URL.

www……Select?`filterparameters=filterfieldname1:value1,filterfieldname2:value2`

To ORDER data, in posted url, you can sent data via GET method.

www……Select?`orderparameters=orderfieldname1:asc,orderfieldname2:desc`

For “update” and “membership” optype, opvalue means updated field primary key value. This data must be sent as encyrpted locally also. At server side, after getting data it will be operated as at below:

```
opvalue =
ClassLibrary.function.DecyrptLocalDataString(WebUtility.UrlDecode(opvalue).Replace("
","+"), SessLVal, SessVal);
```

```
Fieldnames that will be updated will be sent after these basic parameters.
```

For “delete” optype, opvalue means updated field primary key value. This data must be sent as encyrpted locally also. At server side, after getting data it will be operated as at below:

```
opvalue =
ClassLibrary.function.DecyrptLocalDataString(WebUtility.UrlDecode(opvalue).Replace("
","+"), SessLVal, SessVal);
```

3. Default values of parameters:

isActiveValue:2 (If you set 2, does not care tablename_is_active field, means calls any value like 1,0,null)

isDeletedValue:0 (If you set 2, does not care tablename_is_deleted field, means calls any value like 1,0,null)

getEncrypted:1 (If you set 0, does not need send the data encrypted. Response data also will be decrypted. But for data security, you must set it 1 to end to end encryption)

4. Response data format:

```
"{\"status\":\"error\", \"statuscode\":\"401\", \"message\": \"exceptionerror\",
\"language\":\"" + "" + "\",\"timezone\":\"" + "" + "\", \"rowcount\":\"1\",
\"data\":\"\", \"targeturl\":\"\"}
```

```
{\"status\":\"ok\", \"statuscode\":\"200\", \"message\": \"successful\", \"language\":\""
+ LocalLanguageId + "\",\"timezone\":\"" + LocalOffset + "\", \"rowcount\":\"1\",
\"data\":\"\", \"targeturl\":\"\"}
```

```
{\"status\":\"ok\", \"statuscode\":\"200\", \"message\": \"successful\", \"language\":\""
+ LocalLanguageId + "\",\"timezone\":\"" + LocalOffset + "\", \"rowcount\":\"1\",
\"data\":{\"member_id\":\"" + memberId + "\",\"member_secretkey\":\"" + memberSecretKey +
"\",\"images_url\":\"" + images_url + "\",\"image_source\":\"" + image_source +
"\",\"member_name\":\"" + member_name + "\",\"member_surname\":\"" + member_surname +
"\",\"corporate_name\":\"" + corporate_name + "\",\"Source\":\"" + UserTypeEncrypted +
"\",\"SessLVal\":\"" + SessionValue + "\" }\"" + "" + "\", \"targeturl\":\"\"}
```

5. Posted security and local data must be sent in header. “Data” can send in header or as formdata named “Data”.

```
ajaxStr += "request.setRequestHeader('SessLVal',  getCookie('SessLVal') );";
ajaxStr += "request.setRequestHeader('SessVal', getCookie('SessVal') );";
ajaxStr += "request.setRequestHeader('Source', getCookie('Source') );";
```

```
ajaxStr += "request.setRequestHeader('Local', '{\"language\": \"' + getUserLanguage() +
'\" , \"timezone\":\"' + getUserTimeZone()+ '\" }');";

var formdt  = new FormData();
formdt.append( 'Data',EncryptLocalDataString( posteddata ));}
```

data : formdt ,

Warning: Posted “Data” form data must be encrypted. Example codes for encrypted data methods are at the end of this document. JS example, C# example contain ready to use function to encrypt and to decrypt data.

Example js script:

<script>

var formdt = new FormData();

Function userDeletevjs (pgidx = null)

{

if (confirm("Do you submit this request?"))

{

$.ajax({url:'/user/userDeletev',type:'post',dataType:'text',contentType : "text/plain; charset=utf-8",success : function(data){successForm(data, '{"tableRequestType":"deletev","opvalue":"SvzsgHEW353N9LvCd9ywbH2u6pMrB4FE%2FsnRnQh6R8CejnPD5Zwz%2FqSIGBD2JKPF6rJgzHL46QmKcPBb9kImg3AvFNxzd1aYNzkKmX1TVPs%3D","formId":"DeletevformSvzsgHEW353N9LvCd9ywbH2u6pMrB4FE2FsnRnQh6R8CejnPb5Zwz2FqSIGBD2JKPF6rJgzHL46QmKcPBb9kImg3AvFNxzd1aYNzkKmX1TVPs3D","successTargetUrl":"","errorTargetUrl":""}')},beforeSend:function(request){ $("#loading-overlay").show(); formdt.append('Data', EncryptLocalDataString('' , '' ,'{"optarget":"user","optype":"deletev","opvalue":"SvzsgHEW353N9LvCd9ycbH2u6pMrB4FE%2FsnRnQh6R8CejnPD5Zwz%2FqSIGBD2JKPF6rJgzHL46QmKcPBb9kImg3AvFNxzd1aYNzkKmX1TVPs%3D","formid":"DeletevformSvzsgHEW353N9LvCd9ywbH2u6pMrB4FE2FsnRnQh6R8CejnPD5Zwz2FqSIGBD2JKPF6rJgzHL46QmKcPBb9kImg3AvFNxzd1aYNzkKmX1TVPs3D","user_secret_key":"'+'SvzsgHEW357N9LvCd9ywbH2u6pMrB4FE%2FsnRnQh6R8CejnPD5Zwz%2FqSIGBD2JKPF6rJgzHL46QmKcPBb9kImg3AvFNxzd1aYNzkKmX1TVPs3D'+'"}', 0)); request.setRequestHeader('SessLVal', getCookie('SessLVal'));request.setRequestHeader('SessVal', getCookie('SessVal'));request.setRequestHeader('Source', getCookie('Source'));request.setRequestHeader('Local', '{"language": "' + getUserLanguage() + '" , "timezone":"' + getUserTimeZone()+ '" }'); },data : formdt , processData: false,contentType: false,error : function(data){errorForm(data)}}).toString();

}

}

</script>

6. Create session parameters

1. Firstly to get local data encyrption parameters, call this function:

projectname.ogan.cloud/projectnameWebApp/CreateSession

That will return `SessVal` parameter which is used in Header parameters.

2. to get source parameters, call this function:

projectname.ogan.cloud/projectnameWebApp/`CreateLoginType?UserType=user&sesvaluecreated=<SessVal>`

That will return `Source` parameter which is used in Header parameters.

Note: If user logout, these parameters must be create again.

2. Create new member

1. Create or check session parameters defined in section 2.

2. Send parameters for new member

projectname.ogan.cloud/projectnameWebApp/`NewMember`

```
"{\"optarget\":\"tbl_user\", \"optype\":\"newmember\", \"opvalue\": \"\",
\"formid\":\"\",\"user_surname\":\"user_surname_data\",\"user_active_gsm\":\"GSMNO\",\"us
er_active_email\":\"EMAIL\",\"user_password\":\"user_password_data\",\"usernametype\":\"g
sm\",\"loginusertype\":\"user\",\"roletype\":\"enduser\"}
```

USERROLE List:

"companyuser": Company

"enduser": Buyer

"dealeruser" : Dealer agent

Response:

```
{\"status\":\"ok\", \"statuscode\":\"200\", \"message\": \"successful\", \"language\":\""
+ LocalLanguageId + "\",\"timezone\":\"" + LocalOffset + "\", \"rowcount\":\"1\",
\"data\":\"" + returnActionApiResult.data + "\", \"targeturl\":\"\"}
```

3. Send parameters for check validation phone number

projectname.ogan.cloud/projectnameWebApp/`CheckValidationCode`

```
"{\"optarget\":\"tbl_user\", \"optype\":\"validation\", \"opvalue\": \"\",
\"formid\":\"\",\"user_active_gsm_validation_code\",\"usertype\",\"user\"}
```

Response:

```
{\"status\":\"ok\", \"statuscode\":\"200\", \"message\": \"successful\", \"language\":\""
+ LocalLanguageId + "\",\"timezone\":\"" + LocalOffset + "\", \"rowcount\":\"1\",
\"data\":{\"member_id\":\"" + memberId + "\",\"member_secretkey\":\"" + memberSecretKey +
"\",\"images_url\":\"" + images_url + "\",\"image_source\":\"" + image_source +
"\",\"member_name\":\"" + member_name + "\",\"member_surname\":\"" + member_surname +
"\",\"corporate_name\":\"" + corporate_name + "\",\"Source\":\"" + UserTypeEncrypted +
"\",\"SessLVal\":\"" + SessionValue + "\",\"SessVal\":\"" + SessVal + "\"
,\"member_role\":\"" + memberRole + "\" }
```

Warning: `SessLVal` and new `Source` parameters must be saved in local storage for other API requests to reach data.

projectname.ogan.cloud/projectnameWebApp/`ResendValidationCode`

```
"{\"optarget\":\"tbl_user\", \"optype\":\"validation\", \"opvalue\": \"\",
\"formid\":\"\",\"user_active_gsm\":\"[GSM NO]\",\"usertype\":\"user\"}
```

Validation with Email

```
"{\"optarget\":\"tbl_user\", \"optype\":\"validation\", \"opvalue\": \"\",
\"formid\":\"\",\"user_active_email\":\"[EMAIL]\",\"usertype\":\"user\"}
```

2.1 Create temp member

1. Create or check session parameters defined in section 2.

projectname.ogan.cloud/projectnameWebApp/CreateSession

returns: SessVal parameter as string.

projectname.ogan.cloud/projectnameWebApp/`CreateLoginType?UserType=user&sesvaluecreated=<SessVal>`

returns: Source parameter as string.

2. Send parameters for new temp member

projectname.ogan.cloud/projectnameWebApp/`TempMember`

Response:

```
{\"status\":\"ok\", \"statuscode\":\"200\", \"message\": \"successful\", \"language\":\""
+ LocalLanguageId + "\",\"timezone\":\"" + LocalOffset + "\", \"rowcount\":\"1\",
\"data\":{\"member_id\":\"" + memberId + "\",\"member_secretkey\":\"" + memberSecretKey +
"\",\"images_url\":\"" + images_url + "\",\"image_source\":\"" + image_source +
"\",\"member_name\":\"" + member_name + "\",\"member_surname\":\"" + member_surname +
"\",\"corporate_name\":\"" + corporate_name + "\",\"Source\":\"" + UserTypeEncrypted +
"\",\"SessLVal\":\"" + SessionValue + "\",\"SessVal\":\"" + SessVal + "\"
,\"member_role\":\"" + memberRole + "\" }
```

Warning: `SessLVal` and new `Source` parameters must be updated in local storage after that API request.

3. Start a login

1. Create or check session parameters defined in section 2.

2. Send parameters for login

projectname.ogan.cloud/projectnameWebApp/`Login`

```
"{\"optarget\":\"tbl_user\", \"optype\":\"login\", \"opvalue\": \"\",
\"formid\":\"\",\"user_username\":\"user_username_data\",\"user_password\":\"user_passwor
d_data\",\"usertype\":\"user\"}
```

Response:

```
{\"status\":\"ok\", \"statuscode\":\"200\", \"message\": \"successful\", \"language\":\""
+ LocalLanguageId + "\",\"timezone\":\"" + LocalOffset + "\", \"rowcount\":\"1\",
\"data\":{\"member_id\":\"" + memberId + "\",\"member_secretkey\":\"" + memberSecretKey +
"\",\"images_url\":\"" + images_url + "\",\"image_source\":\"" + image_source +
"\",\"member_name\":\"" + member_name + "\",\"member_surname\":\"" + member_surname +
"\",\"corporate_name\":\"" + corporate_name + "\",\"Source\":\"" + UserTypeEncrypted +
"\",\"SessLVal\":\"" + SessionValue + "\" ,\"member_role\":\"" + memberRole + "\"  },
\"targeturl\":\"\"}
```

Warning: SessLVal and new Source parameters must be saved in local storage for other API requests to reach data.

3.1 GSM (or email) validation

1. Create or check session parameters defined in section 2.

2. Send parameters for validation

projectname.ogan.cloud/projectnameWebApp/CheckValidationCode

for GSM validation

```
"{\"optarget\":\"tbl_user\", \"optype\":\"validationcode\", \"opvalue\": \"\",
\"formid\":\"\",\"user_active_gsm_validation_code\":\"ENTERED_CODE_DATA\",\"user_active_g
sm\":\"CUSTOMER_GSM_NO\"}
```

For Email Validation

```
"{\"optarget\":\"tbl_user\", \"optype\":\"validationcode\", \"opvalue\": \"\",
\"formid\":\"\",\"user_active_email_validation_code\":\"ENTERED_CODE_DATA\",\"user_active
_email\":\"CUSTOMER_EMAIL\"}
```

Response:

```
{\"status\":\"ok\", \"statuscode\":\"200\", \"message\": \"successful\", \"language\":\""
+ LocalLanguageId + "\",\"timezone\":\"" + LocalOffset + "\", \"rowcount\":\"1\",
\"data\":{\"member_id\":\"" + memberId + "\",\"member_secretkey\":\"" + memberSecretKey +
"\",\"images_url\":\"" + images_url + "\",\"image_source\":\"" + image_source +
"\",\"member_name\":\"" + member_name + "\",\"member_surname\":\"" + member_surname +
"\",\"corporate_name\":\"" + corporate_name + "\",\"Source\":\"" + UserTypeEncrypted +
"\",\"SessLVal\":\"" + SessionValue + "\" ,\"member_role\":\"" + memberRole + "\"  },
\"targeturl\":\"\"}
```

```
{\"status\":\"error\", \"statuscode\":\"401\", \"message\": \"operationerror\",
\"language\":\"" + "" + "\",\"timezone\":\"" + "" + "\", \"rowcount\":\"1\",
\"data\":\"\", \"targeturl\":\"\"}
```

Warning: SessLVal and new Source parameters must be saved in local storage for other API requests to reach data.

3.2 Get Word Content

1. Send parameters to get Word content

projectname.ogan.cloud/projectnameWebApp/`WordContent`

```
//LanguageId = "1"; ->TR
//LanguageId = "2"; ->EN


string LanguageId = mainControllerObject.CookieGet("Lang");
if (String.IsNullOrEmpty(LanguageId))
       LanguageId = "1";


LanguageStrList += LanguageId + ";validation;;;;;|";
LanguageStrList += LanguageId + ";languagelist;;;;;|";
LanguageStrList += LanguageId + ";warning;;;;;|";
LanguageStrList += LanguageId + ";table;;" + userrole + ";tbl_campaign;;|";
//LanguageStrList += LanguageId+";menu;;"+ userrole+";;;|";
LanguageStrList += LanguageId + ";page;;" + userrole + ";" + pagename + ";;|";
LanguageStrList += LanguageId + ";status;;" + userrole + ";tbl_campaign;;|";
```

Encyrpt the LanguageStrList string and send with “Data” header.

Response:

```
{"status":"ok", "statuscode":"200", "message": "successful", "language":"","timezone":"",
"rowcount":"1", "data":"[]", "targeturl":""}
```

```
{\"status\":\"error\", \"statuscode\":\"401\", \"message\": \"operationerror\",
\"language\":\"" + "" + "\",\"timezone\":\"" + "" + "\", \"rowcount\":\"1\",
\"data\":\"\", \"targeturl\":\"\"}
```

3.3. Reset Password

1. Create or check session parameters defined in section 2.

2. Send parameters for new member

projectname.ogan.cloud/projectnameWebApp/`ResetPassword`

`GSM:`

```
"{\"optarget\":\"tbl_user\", \"optype\":\"resetpassword\", \"opvalue\": \"\",
\"formid\":\"\",\"user_active_gsm\":\"GSMNO\"\"usernametype\":\"gsm\"}
```

EMAIL:

```
"{\"optarget\":\"tbl_user\", \"optype\":\"resetpassword\", \"opvalue\": \"\",
\"formid\":\"\",\"user_active_email\":\"EMAIL\",\"usernametype\":\"gsm\"}
```

projectname.ogan.cloud/projectnameWebApp/PasswordCheckValidationCode

```
for GSM validation
```

```
"{\"optarget\":\"tbl_user\", \"optype\":\"validationcode\", \"opvalue\": \"\",
\"formid\":\"\",\"user_password\":\"NEWPASSWORD\",\"user_active_gsm_validation_code\":\"E
NTERED_CODE_DATA\",\"user_active_gsm\":\"CUSTOMER_GSM_NO\"}
```

```
For Email Validation
```

```
"{\"optarget\":\"tbl_user\", \"optype\":\"validationcode\", \"opvalue\": \"\",
\"formid\":\"\",\"user_password\":\"NEWPASSWORD\",\"user_active_email_validation_code\":\
"ENTERED_CODE_DATA\",\"user_active_email\":\"CUSTOMER_EMAIL\"}
```

3.4. Membership Update

```
Get membership data
```

projectname.ogan.cloud/user/userUpdateGetData

```
"{\"optarget\":\"tbl_user\", \"optype\":\"membership\", \"opvalue\":
\"ENCRYPTED_USER_SECRET_KEY(GUID)\", \"formid\":\"\"}
```

```
Update membership data
```

projectname.ogan.cloud/user/userUpdate

```
"{\"optarget\":\"tbl_user\", \"optype\":\"membership\", \"opvalue\":
\"ENCRYPTED_USER_SECRET_KEY(GUID)\",
\"formid\":\"\",\"user_name\":\"user_name_data\",\"user_surname\":\"user_surname_data\",\
"user_active_gsm\":\"GSMNO\",\"user_active_email\":\"EMAIL\",\"user_password\":\"user_pas
sword_data\"}
```

4. Session values that will be used to authenticate

Api post request requires user based end-to-end encyrption with AES-256 CBC.

Example values at below:

SessLVal

ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY7
8rRwmZFb9dewfxJMaWSs2XZNGqIC0n4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7q
M8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=

SessVal

X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf1
Pm55oewunwy5bXprlwJ+70APa1jdEf4I1BKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQT
m6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=

Source

e6LdoysefydF1Qm3T/8bR6UO+a9bjiohBZQ5oK5Dzp8=

5. Insert Data to GENERIC API:

Post data

All post data must be sent with headers.

Headers that have to post are at below:

`SessLVal:`
ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY7
8rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7q
M8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=

`SessVal:`
X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf1
Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQTm
6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=

`Source:`e6LdoysefydF1Qm3T/8bR6UO+a9bkiohBZQ5oK5Dzp8=

`Data:` (This header data requires end-to-end encyrption with AES-256 CBC. Example code is shared last section of this document.)

{"optarget":"tableorviewname","optype":"insert","opvalue":"","formid":"","tableorviewname_fetched_
data":"data", "tableorviewname_fetch_account_id":"1", "tableorviewname_is_active":"1",
"tableorviewname_is_deleted":"0"}

optarget: table name

optype: “insert”

Post URL: (https post is suggested.)

GENERIC LINK:

https://projectname.ogan.cloud/<tablename_without_”tbl_”>/<tablename_without_”tbl_”>Insert

EXAMPLE LINK:

https://projectname.ogan.cloud/tableorviewname/tableorviewnameInsert

Response data

return type: text/plain. Data will be reached as encrypted. Before parsing text, response must be decrypted with the same method.

Successful response:

```
{\"status\":\"ok\", \"statuscode\":\"200\", \"message\": \"successful\", \"language\":\""
+ "" + "\",\"timezone\":\"" + "" + "\", \"rowcount\":\"1\", \"data\":{\"id\":\""+ id +
"\", \"secretkey\":\""+ secretkey+"\"}, \"targeturl\":\"\"}
```

Error response:

```
{\"status\":\"error\", \"statuscode\":\"401\", \"message\": \"operationerror\",
\"language\":\"" + "" + "\",\"timezone\":\"" + "" + "\", \"rowcount\":\"1\",
\"data\":\"\", \"targeturl\":\"\"}
```

Error Types:

notauthorized	It is not authorized
successful	The transaction is successful
exceptionerror	An unusual transaction exists error
notvalidsession	There is no valid session
notvalidrequest	Not a valid trading instruction
operationerror	There is a request process error
notregisteredmember	Not a registered member
validationerror	Data entry has invalid records
nodata	No record

GET Parameters and Default Values:

tablenameInsert(string PostedSessLVal = "", string PostedSessVal="", string PostedSource = "", string PostedData = "", string PostedLocal = "", string getEncrypted="1", string isPublic = "0", string islogininfo = "", string tableauthinfo = "")

6. Select Data from GENERIC API:

Post Data

All post data must be sent with headers.

Headers that have to post are at below:

SessLVal:
ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY7
8rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7q
M8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=

SessVal:
X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf1
Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQTm
6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=

Source:e6LdoysefydF1Qm3T/8bR6UO+a9bkiohBZQ5oK5Dzp8=

Data: (This header data requires end-to-end encyrption with AES-256 CBC. Example code is shared last section of this document.)

{"optarget":"tableorviewname","optype":"select","opvalue":"0","formid":""}

optarget: table name

optype: “select”

opvalue: page index

Post URL: (https post is suggested.)

GENERIC LINK:

https://projectname.ogan.cloud/<tablename_without_”tbl_”>/<tablename_without_”tbl_”>Select

EXAMPLE LINKS:

https://projectname.ogan.cloud/tableorviewname/tableorviewnameSelect

https://projectname.ogan.cloud/tableorviewname/tableorviewnameSelect?filterparameters=filterfieldname1:value1,filterfieldname2:value2

https://projectname.ogan.cloud/tableorviewname/tableorviewnameSelect?orderparameters=orderfieldname1:asc,orderfieldname2:desc

OTHER USAGE TYPES ON URL:

filterparameters=field1:5,field2:6,field3~|~not in~|~(5_|_6),field4~|~like~|~5,field5~|~like~|~*search*,ISNULL(field6_|_0)~|~>=~|~5, field7~|~>=~|~minus5 (Work as AND)

&
selectparameters=field1,field2,field3 (default: *, response back all fields)
&
orderparameters=field1:asc,field2:desc,field3:asc
&
searchparameters=field1:5,field2:6,field3~|~not in~|~(5_|_6),field4~|~like~|~5,field5~|~like~|~*search*,ISNULL(field6_|_0)~|~>=~|~5, field7~|~>=~|~minus5 (work as OR)

Response data

return type: text/plain. Data will be reached as encrypted. Before parsing text, response must be decrypted with the same method.

Successful response:

```
{"status":"ok", "statuscode":"200", "message": "successful", "language":"","timezone":"", "rowcount":"1", "data":"[]", "targeturl":""}
```

These fields will be parsed in “data” parameter of json response.

Error response:

```
{"status":"error", "statuscode":"401", "message": "It is not authorized", "language":"","timezone":"", "rowcount":"1", "data":"[]", "targeturl":""}
```

Error Types:

notauthorized	It is not authorized
successful	The transaction is successful
exceptionerror	An unusual transaction exists error
notvalidsession	There is no valid session
notvalidrequest	Not a valid trading instruction
operationerror	There is a request process error
notregisteredmember	Not a registered member
validationerror	Data entry has invalid records
nodata	No record

GET Parameters and Default Values:

tableorviewnameSelect(string pgidx="0", string filterparameters = "", string isActiveValue ="2", string isDeletedValue="0", int pageLimit = 10, string isloginginfo = "", string tableauthinfo="", string orderparameters = "", string selectparameters = "", string PostedSessLVal = "", string PostedSessVal="", string PostedSource = "", string PostedData = "", string PostedLocal = "", string getEncrypted="1", string isPublic = "0", string searchparameters="")

6.1. Select Data for Update (UpdateGetData Single Row) from GENERIC API:

Post data

All post data must be sent with headers.

Headers that have to post are at below:

SessLVal:
ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY7
8rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7q
M8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=

SessVal:
X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf1
Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQTm
6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=

Source:e6LdoysefydF1Qm3T/8bR6UO+a9bkiohBZQ5oK5Dzp8=

Data: (This header data requires end-to-end encyrption with AES-256 CBC. Example code is shared last section of this document.)

{"optarget":"tableorviewname","optype":"select","opvalue":"0","formid":""}

optarget: table name

optype: “select”

Post URL: (https post is suggested.)

GENERIC LINK:

https://projectname.ogan.cloud/<tablename_without_”tbl_”>/<tablename_without_”tbl_”>UpdateGet Data

EXAMPLE LINKS:

https://projectname.ogan.cloud/tableorviewname/tableorviewnameUpdateGetData

{"optarget":"tableorviewname","optype":"select","opvalue":"
SELECTED_ROW_SECRET_KEY_VALUE_ENCYRPTED","formid":""}

opvalue: row secret_key (SELECTED_ROW_SECRET_KEY_VALUE) (must send as encyrpted with the same method. Example code is shared last section of this document.)

Response data

return type: text/plain. Data will be reached as encrypted. Before parsing text, response must be decrypted with the same method.

Successful response:

```
{"status":"ok", "statuscode":"200", "message": "successful", "language":"","timezone":"",
"rowcount":"1", "data":"[]", "targeturl":""}
```

These fields will be parsed in “data” parameter of json response.

Error response:

```
{"status":"error", "statuscode":"401", "message": "It is not authorized",
"language":"","timezone":"", "rowcount":"1", "data":"[]", "targeturl":""}
```

Error Types:

notauthorized	It is not authorized
successful	The transaction is successful
	An unusual transaction exists
exceptionerror	error
notvalidsession	There is no valid session
notvalidrequest	Not a valid trading instruction
operationerror	There is a request process error
notregisteredmember	Not a registered member
validationerror	Data entry has invalid records
nodata	No record

GET Parameters and Default Values:

tablenameUpdateGetData(string editedRowSecretKey = "", string isActiveValue ="2", string isDeletedValue="0", string activeOperationType="", string islogininfo = "", string tableauthinfo="", string ipaddress="", string filterparameters= "",string getEncrypted="1", string selectparameters= "",string PostedSessLVal= "",string PostedSessVal= "",string PostedSource= "" ,string PostedData= "", string PostedLocal = "")

7. Update Data from GENERIC API:

Post data

All post data must be sent with headers.

Headers that have to post are at below:

SessLVal:
ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY7

8rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7q
M8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=

SessVal:
X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf1
Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQTm
6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=

Source:e6LdoysefydF1Qm3T/8bR6UO+a9bkiohBZQ5oK5Dzp8=

Data: (This header data requires end-to-end encyrption with AES-256 CBC. Example code is shared last section of this document.)

{"optarget":"tableorviewname","optype":"update","opvalue":"
SELECTED_ROW_SECRET_KEY_VALUE_ENCYRPTED","formid":"","tableorviewname_fetched_data":"",
"tableorviewname_fetch_account_id":"1", "tableorviewname_is_active":"1",
"tableorviewname_is_deleted":"0"}

optarget: table name

optype: “update”

opvalue: row secret_key (SELECTED_ROW_SECRET_KEY_VALUE) (must send as encyrpted with the same method. Example code is shared last section of this document.)

Post URL: (https post is suggested.)

GENERIC LINK:

https://projectname.ogan.cloud/<tablename_without_”tbl_”>/<tablename_without_”tbl_”>Update

EXAMPLE LINK:

https://projectname.ogan.cloud/tableorviewname/tableorviewnameUpdate

Response data

return type: text/plain. Data will be reached as encrypted. Before parsing text, response must be decrypted with the same method.

Successful response:

```
{"status":"ok", "statuscode":"200", "message": "successful", "language":"","timezone":"",
"rowcount":"1", "data":"", "targeturl":""}
```

Error response:

```
{"status":"error", "statuscode":"401", "message": "It is not authorized",
"language":"","timezone":"", "rowcount":"1", "data":"", "targeturl":""}
```

Error Types:

notauthorized	It is not authorized
successful	The transaction is successful
exceptionerror	An unusual transaction exists error
notvalidsession	There is no valid session
notvalidrequest	Not a valid trading instruction
operationerror	There is a request process error
notregisteredmember	Not a registered member
validationerror	Data entry has invalid records
nodata	No record

Get Parameters and Default Values:

tablenameUpdate(string editedRowSecretKey = "", string isActiveValue ="2", string isDeletedValue="0", string activeOperationType = "", string PostedSessLVal = "", string PostedSessVal="", string PostedSource = "", string PostedData = "", string PostedLocal = "", string getEncrypted="1", string filterparameters = "", string searchparameters="", string islogininfo = "", string tableauthinfo = "")

8. Delete Data from GENERIC API:

Post data

All post data must be sent with headers.

Headers that have to post are at below:

`SessLVal:`
ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY78rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7qM8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=

`SessVal:`
X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf1Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQTm6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=

`Source:`e6LdoysefydF1Qm3T/8bR6UO+a9bkiohBZQ5oK5Dzp8=

`Data:` (This header data requires end-to-end encyrption with AES-256 CBC. Example code is shared last section of this document.)

{"optarget":"tableorviewname","optype":"deletev","opvalue":"
SELECTED_ROW_SECRET_KEY_VALUE_ENCYRPTED","formid":""}

optarget: table name

optype: “deletev”

opvalue: row secret_key (SELECTED_ROW_SECRET_KEY_VALUE) (must send as encyrpted with the same method. Example code is shared last section of this document.)

Post URL: (https post is suggested.)

GENERIC LINK:

https://projectname.ogan.cloud/<tablename_without_"tbl_">/<tablename_without_"tbl_">Deletev

EXAMPLE LINK:

https://projectname.ogan.cloud/tableorviewname/tableorviewnameDeletev

Response data

return type: text/plain. Data will be reached as encrypted. Before parsing text, response must be decrypted with the same method.

Successful response:

```
{"status":"ok", "statuscode":"200", "message": "successful", "language":"","timezone":"",
"rowcount":"1", "data":"", "targeturl":""}
```

Error response:

```
{"status":"error", "statuscode":"401", "message": "It is not authorized",
"language":"","timezone":"", "rowcount":"1", "data":"", "targeturl":""}
```

Error Types:

notauthorized	It is not authorized
successful	The transaction is successful
exceptionerror	An unusual transaction exists error
notvalidsession	There is no valid session
notvalidrequest	Not a valid trading instruction
operationerror	There is a request process error
notregisteredmember	Not a registered member
validationerror	Data entry has invalid records
nodata	No record

GET Parameters and Default Values:

tablenameDeletev(string PostedSessLVal = "", string PostedSessVal="", string PostedSource = "", string PostedData = "", string PostedLocal = "", string getEncrypted="1", string filterparameters = "", string searchparameters="", string isloginginfo = "", string tableauthinfo = "")

9. Activate Data from GENERIC API:

Post data

All post data must be sent with headers.

Headers that have to post are at below:

SessLVal:
ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY7
8rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7q
M8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=

SessVal:
X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf1
Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQTm
6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=

Source:e6LdoysefydF1Qm3T/8bR6UO+a9bkiohBZQ5oK5Dzp8=

Data: (This header data requires end-to-end encyrption with AES-256 CBC. Example code is shared last section of this document.)

{"optarget":"tableorviewname","optype":"activate","opvalue":"
SELECTED_ROW_SECRET_KEY_VALUE_ENCYRPTED","formid":""}

optarget: table name

optype: “activate”

opvalue: row secret_key (SELECTED_ROW_SECRET_KEY_VALUE) (must send as encyrpted with the same method. Example code is shared last section of this document.)

Post URL: (https post is suggested.)

GENERIC LINK:

https://projectname.ogan.cloud/<tablename_without_”tbl_”>/<tablename_without_”tbl_”>Activate

EXAMPLE LINK:

https://projectname.ogan.cloud/tableorviewname/tableorviewnameActivate

Response data

return type: text/plain. Data will be reached as encrypted. Before parsing text, response must be decrypted with the same method.

Successful response:

{"status":"ok", "statuscode":"200", "message": "successful", "language":"","timezone":"", "rowcount":"1", "data":"", "targeturl":""}

Error response:

{"status":"error", "statuscode":"401", "message": "It is not authorized", "language":"","timezone":"", "rowcount":"1", "data":"", "targeturl":""}

Error Types:

notauthorized	It is not authorized
successful	The transaction is successful
	An unusual transaction exists
exceptionerror	error
notvalidsession	There is no valid session
notvalidrequest	Not a valid trading instruction
operationerror	There is a request process error
notregisteredmember	Not a registered member
validationerror	Data entry has invalid records
nodata	No record

Get Parameters and Default Values:

tablenameActivate(string PostedSessLVal = "", string PostedSessVal="", string PostedSource = "", string PostedData = "", string PostedLocal = "", string getEncrypted="1", string filterparameters = "", string searchparameters="")

10. Passive Data from GENERIC API:

Post data

All post data must be sent with headers.

Headers that have to post are at below:

SessLVal:
ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY78rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7qM8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=

SessVal:
X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf1Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQTm6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=

Source:e6LdoysefydF1Qm3T/8bR6UO+a9bkiohBZQ5oK5Dzp8=

Data: (This header data requires end-to-end encyrption with AES-256 CBC. Example code is shared last section of this document.)

{"optarget":"tableorviewname","optype":"passive","opvalue":"
SELECTED_ROW_SECRET_KEY_VALUE_ENCYRPTED","formid":""}

optarget: table name

optype: “passive”

opvalue: row secret_key (SELECTED_ROW_SECRET_KEY_VALUE) (must send as encyrpted with the same method. Example code is shared last section of this document.)

Post URL: (https post is suggested.)

GENERIC LINK:

https://projectname.ogan.cloud/<tablename_without_”tbl_”>/<tablename_without_”tbl_”>Passive

EXAMPLE LINK:

https://projectname.ogan.cloud/tableorviewname/tableorviewnamePassive

Response data

return type: text/plain. Data will be reached as encrypted. Before parsing text, response must be decrypted with the same method.

Successful response:

```
{"status":"ok", "statuscode":"200", "message": "successful", "language":"","timezone":"",
"rowcount":"1", "data":"", "targeturl":""}
```

Error response:

```
{"status":"error", "statuscode":"401", "message": "It is not authorized",
"language":"","timezone":"", "rowcount":"1", "data":"", "targeturl":""}
```

Error Types:

notauthorized	It is not authorized
successful	The transaction is successful
exceptionerror	An unusual transaction exists error
notvalidsession	There is no valid session
notvalidrequest	Not a valid trading instruction
operationerror	There is a request process error
notregisteredmember	Not a registered member
validationerror	Data entry has invalid records
nodata	No record

Get Parameters and Default Values:

tablenamePassive(string PostedSessLVal = "", string PostedSessVal="", string PostedSource = "", string PostedData = "", string PostedLocal = "", string getEncrypted="1", string filterparameters = "", string searchparameters="")

11. Code example to encyrpt Data Header for GENERIC API:

C# Example:

Encyrption and decyrption algorihtm is AES 256 bit CBC method.

```
using System.Security.Cryptography;

public static byte[] EncryptStringToBytes(string plainText, byte[] key, byte[] iv)
{
            // Check arguments.
            if (plainText == null || plainText.Length <= 0)
            {
                throw new ArgumentNullException("plainText");
            }
            if (key == null || key.Length <= 0)
            {
                throw new ArgumentNullException("key");
            }
            if (iv == null || iv.Length <= 0)
            {
                throw new ArgumentNullException("key");
            }
            byte[] encrypted;
            // Create a RijndaelManaged object
            // with the specified key and IV.
            using (var rijAlg = new RijndaelManaged())
            {
                /*
                rijAlg.Mode = CipherMode.CBC;
                rijAlg.Padding = PaddingMode.PKCS7;
                rijAlg.FeedbackSize = 128;
                 */
                rijAlg.Mode = CipherMode.CBC;
                rijAlg.KeySize = 256;
                rijAlg.BlockSize = 128;
                rijAlg.Padding = PaddingMode.PKCS7;
                rijAlg.FeedbackSize = rijAlg.BlockSize;


                rijAlg.Key = key;
                rijAlg.IV = iv;

                // Create a decrytor to perform the stream transform.
                var encryptor = rijAlg.CreateEncryptor(rijAlg.Key, rijAlg.IV);
```

```
                // Create the streams used for encryption.
                using (var msEncrypt = new MemoryStream())
                {
                    using (var csEncrypt = new CryptoStream(msEncrypt, encryptor,
CryptoStreamMode.Write))
                    {
                        using (var swEncrypt = new StreamWriter(csEncrypt))
                        {
                            //Write all data to the stream.
                            swEncrypt.Write(plainText);
                        }
                        encrypted = msEncrypt.ToArray();
                    }
                }
            }

            // Return the encrypted bytes from the memory stream.
            return encrypted;
}


public static string DecryptStringFromBytes(byte[] cipherText, byte[] key, byte[] iv)
{
            // Check arguments.
            if (cipherText == null || cipherText.Length <= 0)
            {
                throw new ArgumentNullException("cipherText");
            }
            if (key == null || key.Length <= 0)
            {
                throw new ArgumentNullException("key");
            }
            if (iv == null || iv.Length <= 0)
            {
                throw new ArgumentNullException("key");
            }

            // Declare the string used to hold
            // the decrypted text.
            string plaintext = null;

            // Create an RijndaelManaged object
            // with the specified key and IV.
            using (var rijAlg = new RijndaelManaged())
            {
                //Settings
                /*
                rijAlg.Mode = CipherMode.CBC;
                rijAlg.Padding = PaddingMode.PKCS7;
                rijAlg.FeedbackSize = 128;
                */
                rijAlg.Mode = CipherMode.CBC;
                rijAlg.KeySize = 256;
                rijAlg.BlockSize = 128;
                rijAlg.Padding = PaddingMode.PKCS7;
                rijAlg.FeedbackSize = rijAlg.BlockSize;
```

```
                rijAlg.Key = key;
                rijAlg.IV = iv;

                // Create a decrytor to perform the stream transform.
                var decryptor = rijAlg.CreateDecryptor(rijAlg.Key, rijAlg.IV);
                try
                {
                    // Create the streams used for decryption.
                    using (var msDecrypt = new MemoryStream(cipherText))
                    {
                        using (var csDecrypt = new CryptoStream(msDecrypt, decryptor,
CryptoStreamMode.Read))
                        {

                            using (var srDecrypt = new StreamReader(csDecrypt))
                            {
                                // Read the decrypted bytes from the decrypting stream
                                // and place them in a string.
                                plaintext = srDecrypt.ReadToEnd();

                            }

                        }
                    }
                }
                catch (Exception ex)
                {

                }
            }

            return plaintext;
}



//encrpted data written in local client side
public static string EncryptLocal(string cipherText)
{
    string keybytesKey = "bCr556tFe46mg4S2jNfROktYHbWzPbMx";
    string ivKey = "U3cHver8ygVd3Az2";
    if (!string.IsNullOrEmpty(cipherText))
    {
        return EncryptStringAESbyKey(cipherText, keybytesKey, ivKey);
    }
    else
    {
        return string.Empty;
    }
}

//decrpted data written in local client side
public static string DecryptLocal(string cipherText)
{
   string keybytesKey = "bCr556tFe46mg4S2jNfROktYHbWzPbMx";
   string ivKey = "U3cHver8ygVd3Az2";
   if (!string.IsNullOrEmpty(cipherText))
   {
```

```
        return DecryptStringAESbyKey(cipherText.Replace(" ", "+"), keybytesKey, ivKey);
    }
    else
    {
        return string.Empty;
    }
}


//webapp decyrption by client user key or  webapi  decyrption by server user key
public static string DecryptStringAESbyKey(string cipherText, string keybytesKey, string
ivKey)
{
     if (!string.IsNullOrEmpty(cipherText))
     {
        var keybytes = Encoding.UTF8.GetBytes(keybytesKey);
        var iv = Encoding.UTF8.GetBytes(ivKey);

        var encrypted = Convert.FromBase64String(cipherText.Replace(" ", "+"));
        var decriptedFromJavascript = DecryptStringFromBytes(encrypted, keybytes, iv);
        return string.Format(decriptedFromJavascript);
     }
     else
     {
         return string.Empty;
     }
}

//client to webapp encyrption by client user key  or  webapp to webapi  encyrption by
server user key
public static string EncryptStringAESbyKey(string cipherText, string keybytesKey, string
ivKey)
{
      var keybytes = Encoding.UTF8.GetBytes(keybytesKey);
      var iv = Encoding.UTF8.GetBytes(ivKey);
      if (!string.IsNullOrEmpty(cipherText))
      {
         var encyreptedFromJavascript = EncryptStringToBytes(cipherText, keybytes, iv);
         return Convert.ToBase64String(encyreptedFromJavascript);
      }
   return string.Empty;
}


public static string DecyrptLocalDataString(string EncyrptedData, string SessLVal = "",
string SessVal = "")
{
      try
      {
           string[] EncryptedSessValues = null;
           if (EncyrptedData == "")
              return null;

           if (SessLVal != "")
           {
```

```
                EncryptedSessValues = encryption.DecryptLocal(SessLVal).Split(new[] {
"~|~" }, StringSplitOptions.None);//Request.Headers["SessVal"] must be sent here as
token.
            }
            else if (SessVal != "")
            {
                EncryptedSessValues = encryption.DecryptLocal(SessVal).Split(new[] { "~|~"
}, StringSplitOptions.None);//Request.Headers["SessVal"] must be sent here as token.
            }
            else
                 return null;

           return
(encryption.DecryptStringAESbyKey(encryption.DecryptLocal(EncyrptedData).ToString(),
EncryptedSessValues[1].ToString(), EncryptedSessValues[0].ToString()));
        }
        catch (ArgumentNullException ex)
        {
            return "{\"status\":\"error\", \"statuscode\":\"401\", \"message\":
\"exceptionerror\", \"language\":\"" + "" + "\",\"timezone\":\"" + "" + "\",
\"rowcount\":\"1\", \"data\":\"\", \"targeturl\":\"\"}";
        }
        catch (Exception ex)
        {
             return "{\"status\":\"error\", \"statuscode\":\"401\", \"message\":
\"exceptionerror\", \"language\":\"" + "" + "\",\"timezone\":\"" + "" + "\",
\"rowcount\":\"1\", \"data\":\"\", \"targeturl\":\"\"}";
         }
 }



public static string EncryptLocalDataString(string EncyrptedData, string SessLVal = "",
string SessVal = "")
{

      try
      {
            string[] EncryptedSessValues = null;

            if (EncyrptedData == "")
                return null;

            if (SessLVal != "")
            {
                EncryptedSessValues = encryption.DecryptLocal(SessLVal).Split(new[] {
"~|~" }, StringSplitOptions.None);//Request.Headers["SessVal"] must be sent here as
token.
            }
            else if (SessVal != "")
            {
                EncryptedSessValues = encryption.DecryptLocal(SessVal).Split(new[] { "~|~"
}, StringSplitOptions.None);//Request.Headers["SessVal"] must be sent here as token.
            }
            else
                return null;
```

```
            return
(encryption.EncryptLocal(encryption.EncryptStringAESbyKey(EncyrptedData.ToString(),
EncryptedSessValues[1].ToString(), EncryptedSessValues[0].ToString())));
        }
        catch (ArgumentNullException ex)
        {
            return "{\"status\":\"error\", \"statuscode\":\"401\", \"message\":
\"exceptionerror\", \"language\":\"" + "" + "\",\"timezone\":\"" + "" + "\",
\"rowcount\":\"1\", \"data\":\"\", \"targeturl\":\"\"}";
        }
        catch (Exception ex)
        {
             return "{\"status\":\"error\", \"statuscode\":\"401\", \"message\":
\"exceptionerror\", \"language\":\"" + "" + "\",\"timezone\":\"" + "" + "\",
\"rowcount\":\"1\", \"data\":\"\", \"targeturl\":\"\"}";
         }
    }
```

Encyrption of Data header Example for Insert Data:

```
DATA_TOBEUSED_IN_JSONPOST =
EncryptLocalDataString("{"optarget":"tableorviewname","optype":"insert","opvalue":"","formid":"","
tableorviewname_fetched_data":"JSON_SERIALISED_DATA", "tableorviewname_fetch_account_id":"1",
"tableorviewname_is_active":"1", "tableorviewname_is_deleted":"0"}",
"ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY
78rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7
qM8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=",

"X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf
1Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQT
m6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=");
```

```
1. Encyrpt Data
```
{"optarget":"tableorviewname","optype":"insert","opvalue":"","formid":"","tableorviewname_fetched_
data":"JSON_SERIALISED_DATA", "tableorviewname_fetch_account_id":"1",
"tableorviewname_is_active":"1", "tableorviewname_is_deleted":"0"}

With AES 256 bit key size and CBC mode, base64 result

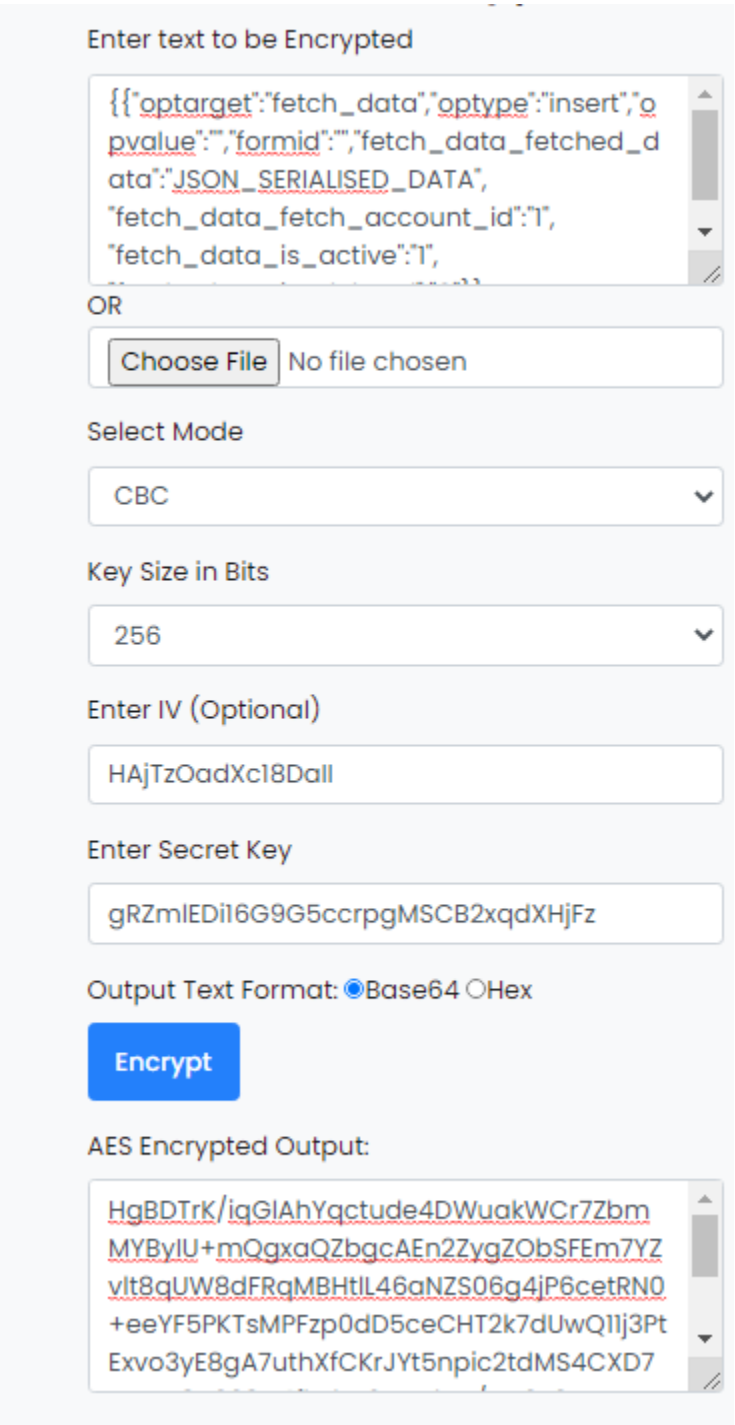
Enter IV: **mIkUm9iF5U6ZvVCW**

Enter Secret Key: **wWbrOhacUDvsALSB3lcXVDFjenPusQ2I**

Result:

HgBDTrK/iqGlAhYqctude4DWuakWCr7ZbmMYByIU+mQgxaQZbgcAEn2ZygZObSFEm7YZvlt8qUW8dFRqM
BHtlL46aNZS06g4jP6cetRN0+eeYF4PKTsMPFzp0dD5ceCHT2k7dUwQ11j3PtExvo3yE8gA7uthXfCKrJYt5npi

c2tdMS4CXD7ADQc9g829EJ1fhFhp8rOMlgq/AH6P3Druuvzm8H+Lcon0UloiGFDsdHY8OsqAhPRCp/Ct/YXR
a8+eNbEXQj7ZpL5wHoBx514hEPdUsCWucCXj1m0FuZQbtcI=



2. Encyrpt the result again

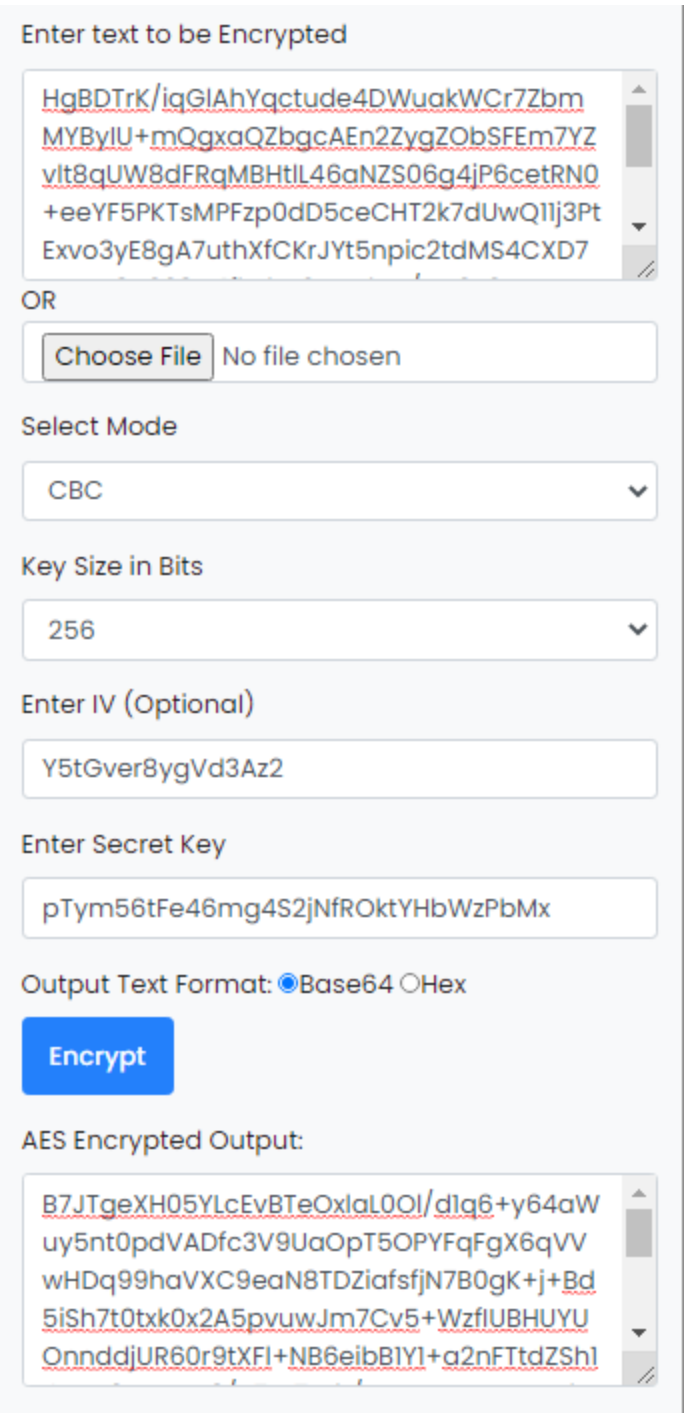
With AES 256 bit key size and CBC mode, base64 result

Enter IV: **U3cHver8ygVd3Az2**

Enter Secret Key: **bCr556tFe46mg4S2jNfROktYHbWzPbMx**

Result: (will be sent via “Data” header)

B7JTgeXH05YLcEvBTeOxlaL0Ol/d1q6+y64aWuy5nt0pdVADfc3V9UaOpT5OPYFqFgX6qVVwHDq99haVXC9
eaN8TDZiafsfjN7B0gK+j+Bd5iSh7t0txk0x2A5pvuwJm7Cv5+WzfIUBHUYUOnnddjUR60r9tXFl+NB6eibB1Y1
+a2nFTtdZSh14sOa2xRFFSo8/u7m7tUh/KORCNBEexEDDdSke17MSlFFyiSgwPCzzD/Rm9P5mhgFDerSB+K
ZwOueFBxtXroxvUgZLG/lkRBlAClbTgdvCa0ijfqH8Ztbs1mGz78IXOwH4bVT0S3z4ZYiL25CiZs4MLzVj23y4UP
ky2ub5M1Hc+p6Hm3WvEoJnlCnQ4V+gOggTv5YlN9NBaF5t5iihiNKfq4uWzDnNrNw==



3. Send all parameters with the header via post method.

Content-Type:

application/json

SessLVal:

ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY7
8rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7q
M8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=

SessVal:

X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf1
Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQTm
6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=

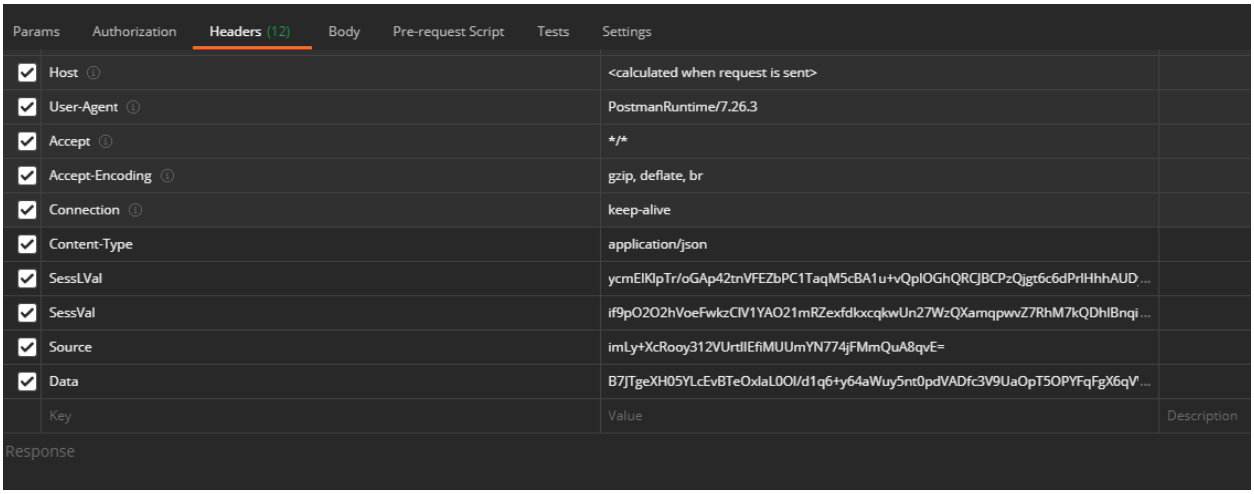
Source:

e6LdoysefydF1Qm3T/8bR6UO+a9bkiohBZQ5oK5Dzp8=

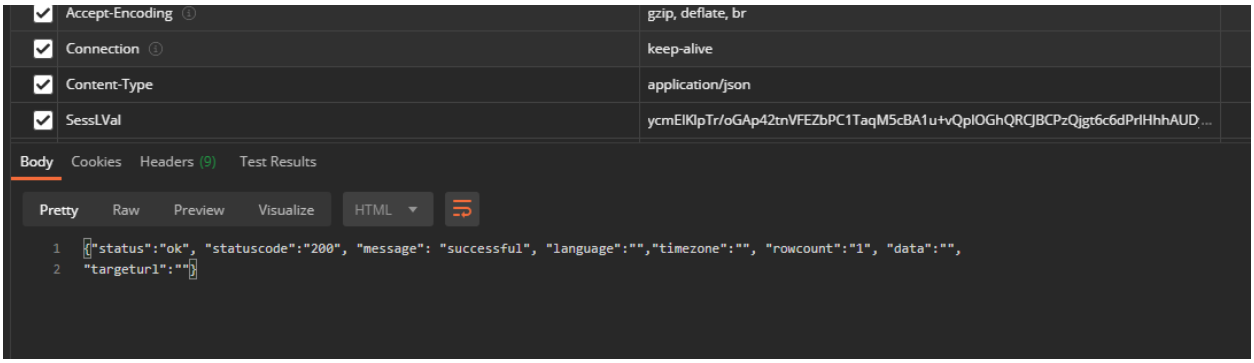
Data:

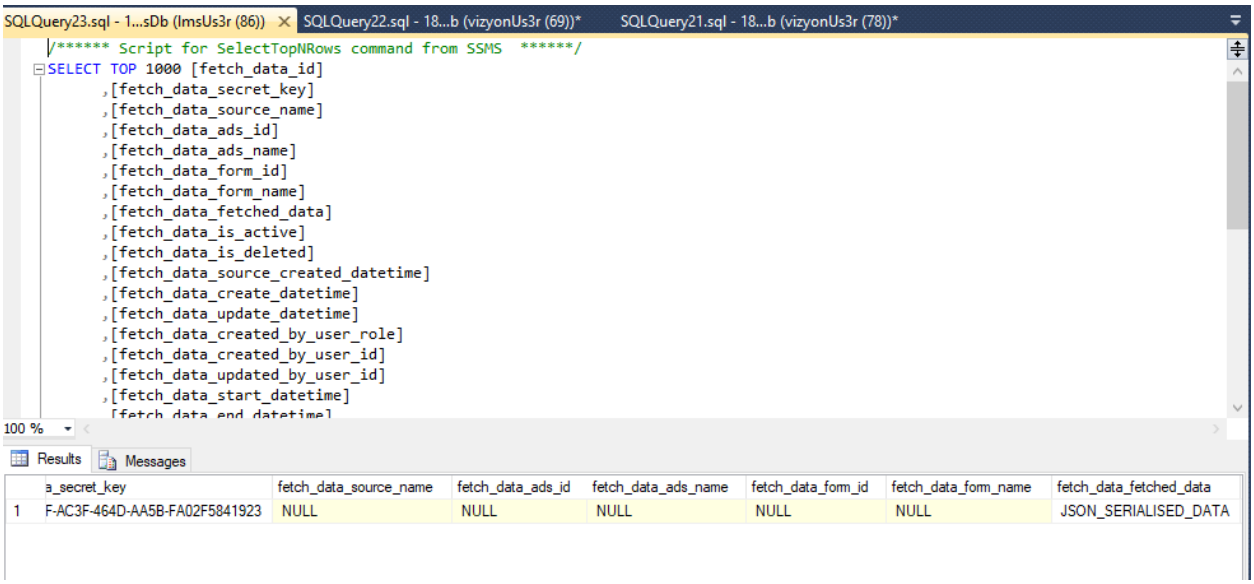
B7JTgeXH05YLcEvBTeOxlaL0Ol/d1q6+y64aWuy5nt0pdVADfc3V9UaOpT5OPYFqFgX6qVVwHDq99haVXC9
eaN8TDZiafsfjN7B0gK+j+Bd5iSh7t0txk0x2A5pvuwJm7Cv5+WzfIUBHUYUOnnddjUR60r9tXFl+NB6eibB1Y1
+a2nFTtdZSh14sOa2xRFFSo8/u7m7tUh/KORCNBEexEDDdSke17MSlFFyiSgwPCzzD/Rm9P5mhgFDerSB+K
ZwOueFBxtXroxvUgZLG/lkRBlAClbTgdvCa0ijfqH8Ztbs1mGz78IXOwH4bVT0S3z4ZYiL25CiZs4MLzVj23y4UP
ky2ub5M1Hc+p6Hm3WvEoJnlCnQ4V+gOggTv5YlN9NBaF5t5iihiNKfq4uWzDnNrNw==

https://projectname.ogan.cloud/tableorviewname/tableorviewnameInsert


Params
Authorization
Headers (12)
Body
Pre-request Script
Tests
Settings
Host
<calculated when request is sent>
User-Agent
PostmanRuntime/7.26.3
Accept
/
Accept-Encoding
gzip, deflate, br
Connection
keep-alive
Content-Type
application/json
SessLVal
ycmElKlpTr/oGAp42tnVFEZbPC1TaqM5cBA1u+vQplOGhQRCJBCPzQjgt6c6dPrIHhhAUD...
SessVal
if9pO2O2hVoeFwkzCIV1YAO21mRZexfdkxcqkwUn27WzQXamqpwvZ7RhM7kQDhIBnqi...
Source
imLy+XcRooy312VUrtlIEfiMUUmYN774jFMmQuA8qvE=
Data
B7JTgeXH05YLcEvBTeOxlaL0OI/d1q6+y64aWuy5nt0pdVADfc3V9UaOpT5OPYFqFgX6qV'...
Key
Value
Description
Response

RESULT:


Accept-Encoding
gzip, deflate, br
Connection
keep-alive
Content-Type
application/json
SessLVal
ycmElKlpTr/oGAp42tnVFEZbPC1TaqM5cBA1u+vQplOGhQRCJBCPzQjgt6c6dPrIHhhAUD...
Body
Cookies
Headers (9)
Test Results
Pretty
Raw
Preview
Visualize
HTML
{"status":"ok", "statuscode":"200", "message": "successful", "language":"","timezone":"", "rowcount":"1", "data":"",
"targeturl":""}


SQLQuery23.sql - 1...sDb (ImsUs3r (86))
SQLQuery22.sql - 18...b (vizyonUs3r (69))*
SQLQuery21.sql - 18...b (vizyonUs3r (78))*
/****** Script for SelectTopNRows command from SSMS ******/
SELECT TOP 1000 [fetch_data_id]
,[fetch_data_secret_key]
,[fetch_data_source_name]
,[fetch_data_ads_id]
,[fetch_data_ads_name]
,[fetch_data_form_id]
,[fetch_data_form_name]
,[fetch_data_fetched_data]
,[fetch_data_is_active]
,[fetch_data_is_deleted]
,[fetch_data_source_created_datetime]
,[fetch_data_create_datetime]
,[fetch_data_update_datetime]
,[fetch_data_created_by_user_role]
,[fetch_data_created_by_user_id]
,[fetch_data_updated_by_user_id]
,[fetch_data_start_datetime]
,[fetch_data_end_datetime]
100 %
Results
Messages
a_secret_key
fetch_data_source_name
fetch_data_ads_id
fetch_data_ads_name
fetch_data_form_id
fetch_data_form_name
fetch_data_fetched_data
1
F-AC3F-464D-AA5B-FA02F5841923
NULL
NULL
NULL
NULL
NULL
JSON_SERIALISED_DATA

Encyrption of Data header Example for Delete Data:

SELECTED_ROW_SECRET_KEY_VALUE_ENCYRPTED =
EncryptLocalDataString("SELECTED_ROW_SECRET_KEY_VALUE",
"ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY
78rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7
qM8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=",

"X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf
1Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQT
m6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=");

DATA_TOBEUSED_IN_JSONPOST =
EncryptLocalDataString("{"optarget":"tableorviewname","optype":"update","opvalue":"
SELECTED_ROW_SECRET_KEY_VALUE_ENCYRPTED","formid":"","tableorviewname_fetched_data":"",
"tableorviewname_fetch_account_id":"1", "tableorviewname_is_active":"1",
"tableorviewname_is_deleted":"0"}",
"ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY
78rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7
qM8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=",

"X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf
1Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQT
m6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=");

JS Example:

Aes.js source file:

http://projectname.ogan.cloud/wwwroot/js/aes.js

```
function EncryptLocalDataString(SessLVal, SessVal, Data){
       var SessLValueP = "";
        if (SessLVal != null && SessLVal != "") {
             SessLValueP = DecrypttoStringAESLocal(SessLVal).split('~|~');
        }
       else if (SessVal != null && SessVal != "") {
              SessLValueP = DecrypttoStringAESLocal(SessVal).split('~|~');
       }
```

```
	return EncrypttoStringAESLocal(EncrypttoStringAESbyKey(Data, SessLValueP[1] ,
SessLValueP[0]));

}

function DecyrptLocalDataString(SessLVal, SessVal, Data){
	var SessValueP = "";
	 if (SessLVal != null && SessLVal != "") {
		SessLValueP = DecrypttoStringAESLocal(SessLVal).split('~|~');
	 } else if (SessVal != null && SessVal != "") {
		 SessLValueP = DecrypttoStringAESLocal(SessVal).split('~|~');
	}

	return DecrypttoStringAESbyKey(DecrypttoStringAESLocal(Data), SessLValueP[1] ,
SessLValueP[0]);

}



function EncrypttoStringAESLocal(cryptText, key = "bCr556tFe46mg4S2jNfROktYHbWzPbMx", iv
= "U3cHver8ygVd3Az2") {
	var _key = CryptoJS.enc.Utf8.parse(key);
	var _iv = CryptoJS.enc.Utf8.parse(iv);

	var encryptedstr = CryptoJS.AES.encrypt(CryptoJS.enc.Utf8.parse(cryptText), _key,
	    {
		keySize: 256,
		iv: _iv,
		mode: CryptoJS.mode.CBC,
		padding: CryptoJS.pad.Pkcs7
	    });
	return encryptedstr;
 }

function DecrypttoStringAESLocal(cryptText, key = "bCr556tFe46mg4S2jNfROktYHbWzPbMx", iv
= "U3cHver8ygVd3Az2") {
	var _key = CryptoJS.enc.Utf8.parse(key);
	var _iv = CryptoJS.enc.Utf8.parse(iv);

	const crypted = CryptoJS.enc.Base64.parse(cryptText);

	var decryptedstr = CryptoJS.AES.decrypt({ ciphertext: crypted }, _key, {
	    iv: _iv,
	    keySize: 256,
	    mode: CryptoJS.mode.CBC,
	    padding: CryptoJS.pad.Pkcs7
	});

	return decryptedstr.toString(CryptoJS.enc.Utf8);
}

function EncrypttoStringAESbyKey(cryptText, key, iv) {
	var _key = CryptoJS.enc.Utf8.parse(key);
	var _iv = CryptoJS.enc.Utf8.parse(iv);

	var encryptedstr = CryptoJS.AES.encrypt(CryptoJS.enc.Utf8.parse(cryptText), _key,
```

```
            {
                keySize: 256,
                iv: _iv,
                mode: CryptoJS.mode.CBC,
                padding: CryptoJS.pad.Pkcs7
            });
        return encryptedstr;
}

function DecrypttoStringAESbyKey(cryptText, key, iv) {
        var _key = CryptoJS.enc.Utf8.parse(key);
        var _iv = CryptoJS.enc.Utf8.parse(iv);

        const crypted = CryptoJS.enc.Base64.parse(cryptText);

        var decryptedstr = CryptoJS.AES.decrypt({ ciphertext: crypted }, _key, {
            keySize: 256,
            iv: _iv,
            mode: CryptoJS.mode.CBC,
            padding: CryptoJS.pad.Pkcs7
        });

        return decryptedstr.toString(CryptoJS.enc.Utf8);
}
```

Encyrption of Data header Example for Insert Data:

```
DATA_TOBEUSED_IN_JSONPOST = EncryptLocalDataString (
"ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY
78rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7
qM8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=",

"X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf
1Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQT
m6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=","{"optarget":"tabl
eorviewname","optype":"insert","opvalue":"","formid":"","tableorviewname_fetched_data":"JSON_SER
IALISED_DATA", "tableorviewname_fetch_account_id":"1", "tableorviewname_is_active":"1",
"tableorviewname_is_deleted":"0"}");
```

Encyrption of Data header Example for Insert Data:

SELECTED_ROW_SECRET_KEY_VALUE_ENCYRPTED = EncryptLocalDataString ("ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY78rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7qM8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=",

"X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf1Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQTm6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=","SELECTED_ROW_SECRET_KEY_VALUE");

DATA_TOBEUSED_IN_JSONPOST = EncryptLocalDataString ("ClfLl/dKJi3ek8ro+yQCd6BvXcl0WHph7gsQkch9EGGAKnDYclcbD9soV6jTrMHpLUXbwj1LlUZhgT6XrrbnxY78rRwmZFb9dewfxJMaWSt2XZNGqIC0o4Hhgoe0M3RDjZd+2RG9qtcYM401N9PG4ylHIv6gW+wSYK8AC7qM8e7oKKgEWnUUGFKJncwVgw207JBozqWl86F8ztraiduAa1suWYrpZ0eX5bfrPkFYK7c=",

"X2mET37HNyvc7BqHRh+qFi1vdFBy9hH6Lof6J3Y+OOKUtyubaY53SlOrSD8sYZJUxKnVu/4i4pBcvVbEvGnf1Pm55oewunwy5bXprlwJ+70APa1jdEf4I1TKSbhuWNQd/JJ284zI1NpOOij0smh5cQtlQitnwdc/OfcyqENQTm6go+3YBIeIdPTrUoyddz8xSM0/EZTKVnXz8wRAKD2Gq6CSLEqVtYgVEXqCY1is8vM=","{"optarget":"tableorviewname","optype":"update","opvalue":"SELECTED_ROW_SECRET_KEY_VALUE_ENCYRPTED","formid":"","tableorviewname_fetched_data":"", "tableorviewname_fetch_account_id":"1", "tableorviewname_is_active":"1", "tableorviewname_is_deleted":"0"}");