

Linedata Capitalstream RESTful API

Table of Contents

1. Overview	1
1.1. Version information.....	1
1.2. URI scheme.....	1
1.3. Tags	1
2. Resources	2
2.1. AccountBusinessService	2
2.1.1. GET /businessapi/v1/accountservice/accounts	2
2.2. ActivityBusinessService	2
2.2.1. GET /businessapi/v1/activityservice/activities/activeMaintenanceTrx	2
2.2.2. GET /businessapi/v1/activityservice/activities/activePortfolioCollateralAction	3
2.2.3. GET /businessapi/v1/activityservice/activities/activePortfolioCustomerAction	4
2.2.4. GET /businessapi/v1/activityservice/activities/{lob}/activeFinancialTrx	4
2.2.5. GET /businessapi/v1/activityservice/activities/{lob}/inActiveFinancialTrx	5
2.3. CSObjectBusinessService	5
2.3.1. Adds a field to an existing object.....	6
2.3.2. Updates the object info.....	6
2.3.3. Gets the information about the given Capitalstream object name.....	7
2.4. CustomerBusinessService.....	8
2.4.1. API to check whether the contact belongs to any other Entities.....	8
2.4.2. API to fetch the suppliers whose contact associated with email id specified.....	9
2.4.3. Create CS customer record for new Capitalstream customer.....	9
2.4.4. API to retrieve customers based on the filters passed.....	10
2.4.5. Saves the new customer and adds it as a relation for the customer entity using entity number.....	11
2.4.6. Gets the customer and relationship template record by entity number.....	12
2.4.7. Saves the relationship record for the customer entity using entity number.....	13
2.4.8. Deletes the relationship records for the customer entity using entity number and ids for relationship records.....	13
2.4.9. Gets the relationship template record for customer entity using the entity number.....	14
2.4.10. API to get the list of customers associated to the Loan Officer ID and the filters passed.....	15
2.4.11. API to get the list of customers associated to the Loan Officer Name and the filters passed.....	16
2.4.12. API to fetch the customer activity details.....	17
2.4.13. API to get the count of all coming due covenants that applies to Customer transactions.....	18
2.4.14. API to fetch active collaterals for a given customer id.....	19
2.4.15. API to fetch collateral utilization tile info for a given customer id.....	20

2.4.16. API to fetch the top ranked collateral utilization tile info for a given customer id, the collateral type and the rank passed.....	21
2.4.17. API to save the customer's contact records.....	22
2.4.18. API to get the Customer Contacts based on the filter parameters passed.....	23
2.4.19. API to get the covenants associated to the Customer.....	24
2.4.20. API to get the Credit Accounts associated to the Customer.....	25
2.4.21. API to fetch the Customer Credit Information.....	26
2.4.22. API to fetch the Notifications for a customer.....	27
2.4.23. API to get the Deposit Accounts associated to the Customer.....	28
2.4.24. API to fetch exposure info for a given customer id.....	28
2.4.25. API to fetch the Customer Risk Rating information.....	29
2.4.26. API to fetch Customer Risk Rating with the Risk Rating configuration.....	30
2.4.27. API to get the related party covenants that applies to Customer transactions.....	31
2.4.28. API to get the relations associated to the Customer.....	32
2.4.29. API to fetch the Customer related Active Activities(Not booked or Decline/Withdrawn) such as Portfolio transaction, Transactions, Collateral Actions.....	33
2.4.30. API to fetch the Customer related Inactive Activities(Decline/Withdrawn) such as Portfolio transaction, Transactions, Collateral Actions.....	35
2.4.31. Saves the new customer and adds it as a relation for the customer entity.....	37
2.4.32. Gets the customer and relationship template record.....	38
2.4.33. Saves the relationship record for the customer entity.....	39
2.4.34. Deletes the relationship records for the customer entity using the entity id and relationship ids.....	40
2.4.35. Gets the relationship template record.....	40
2.4.36. API to fetch upcoming renewals for a given customer id.....	41
2.4.37. API to fetch exposure direct used and unused value for a given customer id and the page size.....	42
2.4.38. Gets the coordinates information from the given address id.....	43
2.4.39. GET /businessapi/v1/customerservice/getCustomerByCoreSystemKey	44
2.4.40. GET /businessapi/v1/customerservice/getCustomerByCustomerNo	44
2.4.41. GET /businessapi/v1/customerservice/getCustomerById	45
2.4.42. GET /businessapi/v1/customerservice/getCustomerContacts	45
2.4.43. GET /businessapi/v1/customerservice/getCustomerLoanOfficerByCustomerId	46
2.4.44. GET /businessapi/v1/customerservice/getCustomerPrimaryAddress	46
2.4.45. Gets the coordinates information from the given address id.....	47
2.4.46. GET /businessapi/v1/customerservice/getCustomersByContactEmail	47
2.4.47. Gets the duplicate customer list for given info.....	48
2.4.48. API to fetch the support contact whose contact associated with organization id specified.....	49
2.4.49. API to check the user is valid based on email address and pid.....	50
2.4.50. API to save the relations records.....	50

2.4.51. Saves the submitted capitalstream customer details and its children based on the cascade configuration.....	51
2.4.52. Saves the submitted customer details and its children based on the cascade configuration.....	52
2.5. DocumentBusinessService	53
2.5.1. REST API to fetch document for the given document id.....	53
2.5.2. API to fetch the related documents for the given Entity	53
2.5.3. API to fetch the Selected documents to send portal for the given Entity Contact.	54
2.5.4. API to fetch the requested portal documents for the given Entity.....	55
2.5.5. API to fetch the Selected documents to send portal for the given Entity.	56
2.5.6. API to fetch the requested portal details for the given Supplier.	56
2.5.7. Rest service method for uploading the documents to the customer based on the document type.Rest service method for uploading the documents to the customer based on the document type.	57
2.5.8. Rest service method for uploading non-entity based document using document storage service.....	58
2.5.9. Rest service method for uploading the documents using document storage service.	59
2.5.10. Rest service method for uploading the documents to the customer based on the document type.....	60
2.5.11. Rest service method for uploading the documents to an entity based on Document Type.	60
2.5.12. Rest service method for uploading the documents to an entity.	61
2.6. EntityBusinessService	62
2.6.1. API to get the entities by array of entity id and object type (Customer, Supplier, Fin Request, Fin Trx).....	62
2.6.2. API to get the entity Name by entity id and object type.	63
2.7. LoanBusinessService	64
2.7.1. Creates the financial transaction object and its children which are configured in the cascade for the given customer id, program id and finance request id.	64
2.7.2. Creates the Finance Request object for the given customer and sends it as response.	65
2.7.3. Submits the finance request.	65
2.7.4. Rest service method to get the customer relationships available for a Finance Request.	66
2.7.5. Rest service method to get all the active transaction details of a customer for the given customer id.	67
2.7.6. Rest service method for getting the Capitalstream booked loans by Entity Number and Line of Business code.	68
2.7.7. Rest service method for getting the core system loan information by customer id.	68
2.7.8. Rest service method to get all the transaction details of a customer for the given customer id.	69
2.7.9. Rest service method for getting the transaction objects by customer id.	70
2.7.10. API to save a relation record using entity number.	71

2.7.11. Deletes the relationship records for the request/transaction entity using entity number for the parent entity and ids for relations.	71
2.7.12. Create a relationship template record for finance request and transaction entity using entity number.	72
2.7.13. Get the status code, status description for the financial transaction / finance request ..	73
2.7.14. API to save a relation record.	74
2.7.15. Deletes the relationship records for the request/transaction entity.	75
2.7.16. Create a relationship template record for finance request and transaction entity.	76
2.7.17. Rest service method to get the relationships available for a Finance Request or Transaction.	76
2.7.18. Saves the submitted financial transaction and its children based on the cascade configuration.	77
2.7.19. Saves the finance request object submitted.	78
2.7.20. Submits the finance request associated to the submitted financial transaction.	79
2.8. LookupBusinessService.	79
2.8.1. Get Lookup as JSON object for the given lookup name and category code.	80
2.8.2. Get Lookup as JSON object for the given lookup name,category code and line of business code.	80
2.8.3. Get Lookup as JSON object for the given lookup name.	81
2.8.4. Get Lookup as JSON object for the given lookup name and line of business code.	82
2.8.5. Get Lookups as JSON object for the given lookup names and line of business code.	83
2.9. NotificationBusinessService.	83
2.9.1. Gets the notification messages for the capitalstream object and id passed.	83
2.10. ProgramBusinessService.	84
2.10.1. Get Finance Program basic details for the given program id.	84
2.10.2. Get Program Object for the given program id.	85
2.10.3. Get Finance Program basic details that are enabled for webservices.	86
2.10.4. Get available finance programs objects for the logged in user.	86
2.10.5. Get available finance programs details for the given loan officer id after applying the user record security.	87
2.10.6. Get Finance Program basic details that are enabled for webservices.	87
2.10.7. Get available finance programs objects for the given loan officer id after applying the user record security.	88
2.11. UserBusinessService.	89
2.11.1. GET /businessapi/v1/userservice/users	89
2.11.2. Gets the permissions available for a user with the given username.	89

Chapter 1. Overview

<p> Linedata Capitalstream hosts the following RESTful services as API's. Please find below the list of API's.</p>

1.1. Version information

Version : 1.0

1.2. URI scheme

Schemes : HTTP, HTTPS

1.3. Tags

- AccountBusinessService : AccountBusinessService describes service actions associated with.
- ActivityBusinessService : Business service class for fetching activities related to customers.
- CSObjectBusinessService : CSObjectBusinessService describes service actions associated with.
- CustomerBusinessService : CustomerBusinessService describes multiple service actions associated with.
- DocumentBusinessService : DocumentBusinessService describes service actions associated with documents.
- EntityBusinessService : EntityBusinessService describes service actions associated with.
- LoanBusinessService : Describes functionality shared across multiple ServiceActions associated with performing "Loan" rContactHelperelated functions.
- LookupBusinessService : LookupBusinessService describes multiple service actions associated with Lookups and expose them as rest web services.
- NotificationBusinessService : Notification Business Service for exposing the notification as REST Service.
- ProgramBusinessService : ProgramBusinessService describes multiple service actions associated with.
- UserBusinessService : UserBusinessService describes service actions associated with.

Chapter 2. Resources

2.1. AccountBusinessService

AccountBusinessService describes service actions associated with.

2.1.1. GET /businessapi/v1/accountservice/accounts

Parameters

Type	Name	Schema
Query	account_category <i>optional</i>	string
Query	account_id <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.2. ActivityBusinessService

Business service class for fetching activities related to customers.

2.2.1. GET /businessapi/v1/activityservice/activities/activeMaintenanceTrx

Parameters

Type	Name	Schema
Query	customer_id <i>optional</i>	string
Query	page_size <i>optional</i>	string

Type	Name	Schema
Query	start_index <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.2.2. GET

/businessapi/v1/activityservice/activities/activePortfolioCollateralAction

Parameters

Type	Name	Schema
Query	customer_id <i>optional</i>	string
Query	page_size <i>optional</i>	string
Query	start_index <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.2.3. GET

/businessapi/v1/activityservice/activities/activePortfolioCustomerAction

Parameters

Type	Name	Schema
Query	customer_id <i>optional</i>	string
Query	page_size <i>optional</i>	string
Query	start_index <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.2.4. GET /businessapi/v1/activityservice/activities/{lob}/activeFinancialTrx

Parameters

Type	Name	Schema
Path	lob <i>required</i>	string
Query	customer_id <i>optional</i>	string
Query	page_size <i>optional</i>	string
Query	start_index <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.2.5. GET

/businessapi/v1/activityservice/activities/{lob}/inActiveFinancialTrx

Parameters

Type	Name	Schema
Path	lob <i>required</i>	string
Query	customer_id <i>optional</i>	string
Query	page_size <i>optional</i>	string
Query	start_index <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.3. CSObjectBusinessService

CSObjectBusinessService describes service actions associated with.

2.3.1. Adds a field to an existing object.

```
POST /businessapi/v1/csobjectservice/objects/createField
```

Description

Adds a field to an existing object.

Parameters

Type	Name	Description	Schema
Body	body <i>optional</i>	the field info to be added	file

Responses

HTTP Code	Description	Schema
201	Response message success/failure	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data,write:data

2.3.2. Updates the object info.

```
POST /businessapi/v1/csobjectservice/objects/update
```

Description

Updates the object info.

Parameters

Type	Name	Description	Schema
Body	body <i>optional</i>	object info to be updated	file

Responses

HTTP Code	Description	Schema
201	Response message success/failure	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data,write:data

2.3.3. Gets the information about the given Capitalstream object name.

```
GET /businessapi/v1/csobjectservice/objects/{name}
```

Description

Gets the information about the given Capitalstream object name

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	name of the object whose information is to be retrieved	string

Responses

HTTP Code	Description	Schema
200	object information as response	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4. CustomerBusinessService

CustomerBusinessService describes multiple service actions associated with.

2.4.1. API to check whether the contact belongs to any other Entities.

```
GET /businessapi/v1/customerservice/checkContactBelongsToOtherEntities
```

Description

API to check whether the contact belongs to any other Entities

Parameters

Type	Name	Schema
Query	email_address <i>optional</i>	string

Responses

HTTP Code	Description	Schema
200	True if associated with other entities else False	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.2. API to fetch the suppliers whose contact associated with email id specified.

```
GET /businessapi/v1/customerservice/contact/suppliers
```

Description

API to fetch the suppliers whose contact associated with email id specified

Parameters

Type	Name	Schema
Query	email_address <i>optional</i>	string

Responses

HTTP Code	Description	Schema
200	the supplier list JSON object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.3. Create CS customer record for new Capitalstream customer.

```
GET /businessapi/v1/customerservice/createCSCustomer
```

Description

Create CS customer record for new Capitalstream customer.

Responses

HTTP Code	Description	Schema
200	Send the Capitalstream Customer record object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.4. API to retrieve customers based on the filters passed.

```
GET /businessapi/v1/customerservice/customers
```

Description

API to retrieve customers based on the filters passed. The various filter include Customer Name, Customer

Zipcode, Customer State,Customer Id. The start index and page size parameters are used for specifying the page no and the records per page.

Parameters

Type	Name	Description	Schema
Query	id <i>optional</i>	the Customer Id filter	string
Query	name <i>optional</i>	the Customer Name filter	string
Query	page_size <i>optional</i>	the no of records per page	string
Query	start_index <i>optional</i>	the page position	string
Query	state <i>optional</i>	the State filter	string
Query	zip_code <i>optional</i>	the ZipCode filter	string

Responses

HTTP Code	Description	Schema
200	the customer list JSON object	json(JSONObject)

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{ }
```

2.4.5. Saves the new customer and adds it as a relation for the customer entity using entity number.

```
POST
```

```
/businessapi/v1/customerservice/customers/entity_no/{customer_no}/new/relationships
```

Description

Saves the new customer and adds it as a relation for the customer entity using entity number.

Parameters

Type	Name	Description	Schema
Path	customer_no <i>optional</i>	the entity number of the customer for which the relationship needs to be saved.	string
Body	body <i>optional</i>	the customer and relation object.	file

Responses

HTTP Code	Description	Schema
201	the saved relation json object.	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data,write:data

2.4.6. Gets the customer and relationship template record by entity number.

```
GET  
/businessapi/v1/customerservice/customers/entity_no/{customer_no}/new/relationships/template
```

Description

Gets the customer and relationship template record by entity number.

Parameters

Type	Name	Description	Schema
Path	customer_no <i>optional</i>	the entity number of the customer for which the relationship needs to be saved.	string
Query	relation_type_code <i>optional</i>	the relation type code.	string

Responses

HTTP Code	Description	Schema
200	the customer and relation json object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.7. Saves the relationship record for the customer entity using entity number.

```
POST /businessapi/v1/customerservice/customers/entity_no/{customer_no}/relationships
```

Description

Saves the relationship record for the customer entity using entity number.

Parameters

Type	Name	Description	Schema
Path	customer_no <i>optional</i>	the entity number of the customer for which the relationship needs to be saved.	string
Body	body <i>optional</i>	the relationship object.	file

Responses

HTTP Code	Description	Schema
201	the saved relation json object.	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data,write:data

2.4.8. Deletes the relationship records for the customer entity using entity number and ids for relationship records.

```
DELETE /businessapi/v1/customerservice/customers/entity_no/{customer_no}/relationships
```

Description

Deletes the relationship records for the customer entity using entity number and ids for relationship records.

Parameters

Type	Name	Description	Schema
Path	customer_no <i>optional</i>	the entity number of the customer for which the relationship needs to be deleted.	string
Body	body <i>optional</i>	the list of relation record ids to be deleted.	< string > array

Responses

HTTP Code	Description	Schema
204	the number of records deleted	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data,write:data

2.4.9. Gets the relationship template record for customer entity using the entity number.

```
GET  
/businessapi/v1/customerservice/customers/entity_no/{customer_no}/relationships/template
```

Description

Gets the relationship template record for customer entity using the entity number.

Parameters

Type	Name	Description	Schema
Path	customer_no <i>optional</i>	the entity number of the customer for which the relation needs to be added.	string

Type	Name	Description	Schema
Query	related_customer_no <i>optional</i>	the entity number of the customer that needs to be added as a related party.	string
Query	relation_type_code <i>optional</i>	the relation type code.	string

Responses

HTTP Code	Description	Schema
200	the relation json object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.10. API to get the list of customers associated to the Loan Officer ID and the filters passed.

```
GET /businessapi/v1/customerservice/customers/loan_officer_id/{loan_off_id}
```

Description

API to get the list of customers associated to the Loan Officer ID and the filters passed. The start index and page size parameters are used for specifying the page no and the records per page.

Parameters

Type	Name	Description	Schema
Path	loan_off_id <i>required</i>	the Loan Officer id filter	string
Query	name <i>optional</i>	the Customer Name filter	string
Query	page_size <i>optional</i>	the no of records per page	string

Type	Name	Description	Schema
Query	start_index <i>optional</i>	the page position	string
Query	state <i>optional</i>	the State filter	string
Query	zip_code <i>optional</i>	the ZipCode filter	string

Responses

HTTP Code	Description	Schema
200	the list of customers associated to Loan Officer ID	json_JSONObject

Produces

- [application/json](#)

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{ }
```

2.4.11. API to get the list of customers associated to the Loan Officer Name and the filters passed.

```
GET /businessapi/v1/customerservice/customers/loan_officer_uname/{loan_off_uname}
```

Description

API to get the list of customers associated to the Loan Officer Name and the filters passed. The start index and page size parameters are used for specifying the page no and the records per page.

Parameters

Type	Name	Description	Schema
Path	loan_off_uname <i>required</i>	the Loan Officer Name filter	string
Query	name <i>optional</i>	the Customer Name filter	string
Query	page_size <i>optional</i>	the no of records per page	string
Query	start_index <i>optional</i>	the page position	string
Query	state <i>optional</i>	the State filter	string
Query	zip_code <i>optional</i>	the ZipCode filter	string

Responses

HTTP Code	Description	Schema
200	the list of customers associated to Loan Officer Name	json(JSONObject)

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{ }
```

2.4.12. API to fetch the customer activity details.

```
GET /businessapi/v1/customerservice/customers/{activity_name}/activity_detail
```

Description

API to fetch the customer activity details. The activities are entities associated to the Customer like

Financial Transaction(financial_trx), Request(finance_request), etc..	Portfolio	Transaction(maintenance_trx),	Finance
---	-----------	-------------------------------	---------

Parameters

Type	Name	Description	Schema
Path	activity_name <i>required</i>	the Activity Object Name	string
Query	activity_id <i>optional</i>	the Activity ID	string

Responses

HTTP Code	Description	Schema
200	the Activity Detail associated to the Activity Object and ID passed	json(JSONObject)

Produces

- [application/json](#)

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{ }
```

2.4.13. API to get the count of all coming due covenants that applies to Customer transactions.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/all_coming_due_covenants
```

Description

API to get the count of all coming due covenants that applies to Customer transactions.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string
Query	coming_due_cov_days <i>optional</i>	number of days to monitor Coming Due covenants	string
Query	page_size <i>optional</i>		string
Query	start_index <i>optional</i>		string

Responses

HTTP Code	Description	Schema
200	the related party covenants that applies to Customer transactions	json(JSONObject)

Produces

- [application/json](#)

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{ }
```

2.4.14. API to fetch active collaterals for a given customer id.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/collaterals
```

Description

API to fetch active collaterals for a given customer id.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string
Query	page_size <i>optional</i>		string
Query	start_index <i>optional</i>		string

Responses

HTTP Code	Description	Schema
200	the collaterals for the given customer.	< string, object > map

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.15. API to fetch collateral utilization tile info for a given customer id.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/collateralusage
```

Description

API to fetch collateral utilization tile info for a given customer id.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string

Responses

HTTP Code	Description	Schema
200	the collateral utilization for the passed customer id.	json_CustomerCollateralTileResponse

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{  
  "customerCollateralTileResponse" : [ {  
    "assetType" : "...",  
    "assetTypeDesc" : "...",  
    "assetValue" : 12345.0,  
    "assetActualValue" : 12345.0  
  }, {  
    "assetType" : "...",  
    "assetTypeDesc" : "...",  
    "assetValue" : 12345.0,  
    "assetActualValue" : 12345.0  
  } ]  
}
```

2.4.16. API to fetch the top ranked collateral utilization tile info for a given customer id, the collateral type and the rank passed.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/collateralusagebytype
```

Description

API to fetch the top ranked collateral utilization tile info for a given customer id, the collateral type and the rank passed.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string
Query	collateral_type <i>optional</i>	the type of the collateral	string

Type	Name	Description	Schema
Query	rank <i>optional</i>	the rank size	string

Responses

HTTP Code	Description	Schema
200	the top ranked collateral utilization for the passed customer id, collateral type and the size passed.	json_CustomerCollateralTileResponse

Produces

- [application/json](#)

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{
  "customerCollateralTileResponse" : [ {
    "assetType" : "...",
    "assetTypeDesc" : "...",
    "assetValue" : 12345.0,
    "assetActualValue" : 12345.0
  }, {
    "assetType" : "...",
    "assetTypeDesc" : "...",
    "assetValue" : 12345.0,
    "assetActualValue" : 12345.0
  } ]
}
```

2.4.17. API to save the customer's contact records.

```
POST /businessapi/v1/customerservice/customers/{cust_id}/contacts
```

Description

API to save the customer's contact records.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer ID for which contacts are saved.	string
Body	body <i>optional</i>	the Contacts Collection Object	file

Responses

HTTP Code	Description	Schema
201	Response message success/failure	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.18. API to get the Customer Contacts based on the filter parameters passed.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/contacts
```

Description

API to get the Customer Contacts based on the filter parameters passed. The various filter include Customer Name or Customer ID. The start index and page size parameters are used for specifying the page no and the records per page.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string

Type	Name	Description	Schema
Query	name <i>optional</i>	the Customer Name filter	string
Query	page_size <i>optional</i>	the no of records per page	string
Query	start_index <i>optional</i>	the page position	string

Responses

HTTP Code	Description	Schema
200	the Contacts associated to the Customer	json(JSONObject)

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{ }
```

2.4.19. API to get the covenants associated to the Customer.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/covenants
```

Description

API to get the covenants associated to the Customer. The start index and page size parameters are used for specifying the page no and the records per page.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string
Query	coming_due_cov_days <i>optional</i>	number of days to monitor Coming Due covenants	string
Query	page_size <i>optional</i>	the no of records per page	string
Query	past_due_cov_days <i>optional</i>	number of days to monitor Past Due covenants	string
Query	start_index <i>optional</i>	the page position	string

Responses

HTTP Code	Description	Schema
200	the covenants associated to the Customer	json_JSONObject

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{ }
```

2.4.20. API to get the Credit Accounts associated to the Customer.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/credit_accounts
```

Description

API to get the Credit Accounts associated to the Customer.

Parameters

Type	Name	Description	Schema
Header	O-Auth-Token <i>optional</i>	the authentication token	string
Path	cust_id <i>required</i>	the Customer ID filter	string

Responses

HTTP Code	Description	Schema
200	the Credit Account associated to the Customer	json_CreditAccountsResponse

Produces

- [application/json](#)

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.21. API to fetch the Customer Credit Information.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/credit_info
```

Description

API to fetch the Customer Credit Information.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string

Responses

HTTP Code	Description	Schema
200	the Credit Information related to Customer	json_CreditRequestInfoBean

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{  
    "creditScore" : "...",  
    "creditSourceType" : "...",  
    "creditDataSourceName" : "...",  
    "customerID" : "...",  
    "creditStatus" : "...",  
    "customerName" : "..."  
}
```

2.4.22. API to fetch the Notifications for a customer.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/customer_notification
```

Description

API to fetch the Notifications for a customer.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer ID filter	string

Responses

HTTP Code	Description	Schema
200	the Notifications associated to the Customer	< string, object > map

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.23. API to get the Deposit Accounts associated to the Customer.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/deposit_accounts
```

Description

API to get the Deposit Accounts associated to the Customer.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer ID filter	string

Responses

HTTP Code	Description	Schema
200	the Deposit account associated to the Customer	json_DepositAccountsResponse

Produces

- [application/json](#)

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.24. API to fetch exposure info for a given customer id.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/exposure
```

Description

API to fetch exposure info for a given customer id.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string

Responses

HTTP Code	Description	Schema
200	the exposure info for the given customer.	< string, object > map

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.25. API to fetch the Customer Risk Rating information.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/pd_risk_rating
```

Description

API to fetch the Customer Risk Rating information.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string

Responses

HTTP Code	Description	Schema
200	the Customer Risk Rating Information.	json_CustomerRiskRatingResponse

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{  
  "riskRatingResponse" : [ {  
    "riskRatedAmt" : 12345.0,  
    "riskRatingDate" : 12345,  
    "pdRatingCode" : "...",  
    "pdRatingValue" : "...",  
    "proposedRatingCode" : "...",  
    "currentStatus" : "...",  
    "management" : "...",  
    "industryOutlook" : "...",  
    "accountObjective" : "...",  
    "advisoryServices" : "...",  
    "byDate" : 12345  
  }, {  
    "riskRatedAmt" : 12345.0,  
    "riskRatingDate" : 12345,  
    "pdRatingCode" : "...",  
    "pdRatingValue" : "...",  
    "proposedRatingCode" : "...",  
    "currentStatus" : "...",  
    "management" : "...",  
    "industryOutlook" : "...",  
    "accountObjective" : "...",  
    "advisoryServices" : "...",  
    "byDate" : 12345  
  } ]  
}
```

2.4.26. API to fetch Customer Risk Rating with the Risk Rating configuration.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/pd_risk_rating_config
```

Description

API to fetch Customer Risk Rating with the Risk Rating configuration.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string

Responses

HTTP Code	Description	Schema
200	the Customer Risk Rating Information with Associated Config.	< string, object > map

Produces

- `application/json`

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.27. API to get the related party covenants that applies to Customer transactions.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/related_party_covenants
```

Description

API to get the related party covenants that applies to Customer transactions. The start index and page size parameters are used for specifying the page no and the records per page.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string
Query	coming_due_cov_days <i>optional</i>	number of days to monitor Coming Due covenants	string

Type	Name	Description	Schema
Query	page_size <i>optional</i>	the no of records per page	string
Query	past_due_cov_days <i>optional</i>	number of days to monitor Past Due covenants	string
Query	start_index <i>optional</i>	the page position	string

Responses

HTTP Code	Description	Schema
200	the related party covenants that applies to Customer transactions	json(JSONObject)

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{ }
```

2.4.28. API to get the relations associated to the Customer.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/relationships
```

Description

API to get the relations associated to the Customer. The start index and page size parameters are used for specifying the page no and the records per page.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string
Query	page_size <i>optional</i>	the no of records per page	string
Query	start_index <i>optional</i>	the page position	string

Responses

HTTP Code	Description	Schema
200	the relations associated the Customer	json(JSONObject)

Produces

- [application/json](#)

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{ }
```

2.4.29. API to fetch the Customer related Active Activities(Not booked or Decline/Withdrawn) such as Portfolio transaction, Transactions, Collateral Actions.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/{lob_code}/active_activities
```

Description

API to fetch the Customer related Active Activities(Not booked or Decline/Withdrawn) such as Portfolio transaction, Transactions, Collateral Actions. The start index and page size parameters are used for specifying the page no and the records per page.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string
Path	lob_code <i>required</i>	the Line Of Business Code (CL/EF) in lower case	string
Query	page_size <i>optional</i>	the no of records per page	string
Query	start_index <i>optional</i>	the page position	string

Responses

HTTP Code	Description	Schema
200	the Active Activities for the customer	json_ActivityResponse

Produces

- [application/json](#)

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{
  "activityMap" : [
    "property1" : [ {
      "objectId" : "...",
      "dateOfRequest" : 12345,
      "status" : "...",
      "trxId" : "...",
      "trxType" : "...",
      "amount" : 12345.0,
      "parentId" : ...
    }, {
      "objectId" : "...",
      "dateOfRequest" : 12345,
      "status" : "...",
      "trxId" : "...",
      "trxType" : "...",
      "amount" : 12345.0,
      "parentId" : ...
    } ],
    "property2" : [ {
      "objectId" : "...",
      "dateOfRequest" : 12345,
      "status" : "...",
      "trxId" : "...",
      "trxType" : "...",
      "amount" : 12345.0,
      "parentId" : ...
    }, {
      "objectId" : "...",
      "dateOfRequest" : 12345,
      "status" : "...",
      "trxId" : "...",
      "trxType" : "...",
      "amount" : 12345.0,
      "parentId" : ...
    } ]
  }
}
```

2.4.30. API to fetch the Customer related Inactive Activities(Decline/Withdrawn) such as Portfolio transaction, Transactions, Collateral Actions.

```
GET /businessapi/v1/customerservice/customers/{cust_id}/{lob_code}/inactive_activities
```

Description

API to fetch the Customer related Inactive Activities(Decline/Withdrawn) such as Portfolio transaction, Transactions, Collateral Actions. The start index and page size parameters are used for specifying the page no and the records per page.

Parameters

Type	Name	Description	Schema
Path	cust_id <i>required</i>	the Customer Id filter	string
Path	lob_code <i>required</i>	the Line Of Business Code (CL/EF) in lower case	string
Query	page_size <i>optional</i>	the no of records per page	string
Query	start_index <i>optional</i>	the page position	string

Responses

HTTP Code	Description	Schema
200	the Inactive Activities for the customer	json_ActivityResponse

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{
  "activityMap" : [
    "property1" : [ {
      "objectId" : "...",
      "dateOfRequest" : 12345,
      "status" : "...",
      "trxId" : "...",
      "trxType" : "...",
      "amount" : 12345.0,
      "parentId" : ...
    }, {
      "objectId" : "...",
      "dateOfRequest" : 12345,
      "status" : "...",
      "trxId" : "...",
      "trxType" : "...",
      "amount" : 12345.0,
      "parentId" : ...
    } ],
    "property2" : [ {
      "objectId" : "...",
      "dateOfRequest" : 12345,
      "status" : "...",
      "trxId" : "...",
      "trxType" : "...",
      "amount" : 12345.0,
      "parentId" : ...
    }, {
      "objectId" : "...",
      "dateOfRequest" : 12345,
      "status" : "...",
      "trxId" : "...",
      "trxType" : "...",
      "amount" : 12345.0,
      "parentId" : ...
    } ]
  }
}
```

2.4.31. Saves the new customer and adds it as a relation for the customer entity.

POST /businessapi/v1/customerservice/customers/{customer_id}/new/relationships

Description

Saves the new customer and adds it as a relation for the customer entity.

Parameters

Type	Name	Description	Schema
Path	customer_id <i>optional</i>	the id of the customer for which the relationship needs to be saved.	string
Body	body <i>optional</i>	the customer and relation object.	file

Responses

HTTP Code	Description	Schema
201	the saved relation json object.	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data,write:data

2.4.32. Gets the customer and relationship template record.

```
GET /businessapi/v1/customerservice/customers/{customer_id}/new/relationships/template
```

Description

Gets the customer and relationship template record

Parameters

Type	Name	Description	Schema
Path	customer_id <i>optional</i>	the id of the customer for which the relationship needs to be saved.	string
Query	relation_type_code <i>optional</i>	the relation type code.	string

Responses

HTTP Code	Description	Schema
200	the customer and relation json object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.33. Saves the relationship record for the customer entity.

```
POST /businessapi/v1/customerservice/customers/{customer_id}/relationships
```

Description

Saves the relationship record for the customer entity.

Parameters

Type	Name	Description	Schema
Path	customer_id <i>optional</i>	the id of the customer for which the relationship needs to be saved.	string
Body	body <i>optional</i>	the relationship object.	file

Responses

HTTP Code	Description	Schema
201	the saved relation json object.	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data,write:data

2.4.34. Deletes the relationship records for the customer entity using the entity id and relationship ids.

```
DELETE /businessapi/v1/customerservice/customers/{customer_id}/relationships
```

Description

Deletes the relationship records for the customer entity using the entity id and relationship ids.

Parameters

Type	Name	Description	Schema
Path	customer_id <i>optional</i>	the id of the customer for which the relationship needs to be deleted.	string
Body	body <i>optional</i>	the list of relation record ids to be deleted.	< string > array

Responses

HTTP Code	Description	Schema
204	the number of records deleted	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data,write:data

2.4.35. Gets the relationship template record.

```
GET /businessapi/v1/customerservice/customers/{customer_id}/relationships/template
```

Description

Gets the relationship template record

Parameters

Type	Name	Description	Schema
Path	customer_id <i>optional</i>	the id of the customer for which the relation needs to be added.	string
Query	related_customer_id <i>optional</i>	the id of the customer that needs to be added as a related party.	string
Query	relation_type_code <i>optional</i>	the relation type code.	string

Responses

HTTP Code	Description	Schema
200	the relation json object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.36. API to fetch upcoming renewals for a given customer id.

```
GET /businessapi/v1/customerservice/customers/{customer_id}/upcomingrenewals
```

Description

API to fetch upcoming renewals for a given customer id.

Parameters

Type	Name	Description	Schema
Path	customer_id <i>required</i>	the Customer Id filter	string

Type	Name	Description	Schema
Query	upcoming_days_for_maturity <i>optional</i>		string

Responses

HTTP Code	Description	Schema
200	the exposure info for the given customer.	< string, object > map

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.37. API to fetch exposure direct used and unused value for a given customer id and the page size.

```
GET /businessapi/v1/customerservice/customers/{customer_id}/usedunusedexposuretile
```

Description

API to fetch exposure direct used and unused value for a given customer id and the page size.

Parameters

Type	Name	Description	Schema
Path	customer_id <i>required</i>	the Customer Id filter	string
Query	page_size <i>optional</i>	the page size	string
Query	start_index <i>optional</i>	the start index	string

Responses

HTTP Code	Description	Schema
200	the exposure direct used and unused info for the given customer.	< string, object > map

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.38. Gets the coordinates information from the given address id.

```
GET /businessapi/v1/customerservice/getCoordinatesByAddressIds
```

Description

Gets the coordinates information from the given address id

Parameters

Type	Name	Schema
Query	address_id <i>optional</i>	< string > array(multi)

Responses

HTTP Code	Description	Schema
200	coordinates information as response	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.39. GET /businessapi/v1/customerservice/getCustomerByCoreSystemKey

Parameters

Type	Name	Schema
Query	tracking_no <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.40. GET /businessapi/v1/customerservice/getCustomerByCustomerNo

Parameters

Type	Name	Schema
Query	entity_no <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.41. GET /businessapi/v1/customerservice/getCustomerById

Parameters

Type	Name	Schema
Query	id <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.42. GET /businessapi/v1/customerservice/getCustomerContacts

Parameters

Type	Name	Schema
Query	customer_id <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.43. GET

/businessapi/v1/customerservice/getCustomerLoanOfficerByCustomerId

Parameters

Type	Name	Schema
Query	customer_id <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.44. GET /businessapi/v1/customerservice/getCustomerPrimaryAddress

Parameters

Type	Name	Schema
Query	customer_id <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.45. Gets the coordinates information from the given address id.

```
GET /businessapi/v1/customerservice/getCustomersAndLocationByLoanOfficerUName
```

Description

Gets the coordinates information from the given address id

Parameters

Type	Name	Schema
Query	distance <i>optional</i>	string
Query	latitude <i>optional</i>	string
Query	loan_off_uname <i>optional</i>	string
Query	longitude <i>optional</i>	string

Responses

HTTP Code	Description	Schema
200	coordinates information as response	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.46. GET /businessapi/v1/customerservice/getCustomersByContactEmail

Parameters

Type	Name	Schema
Query	email_address <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.47. Gets the duplicate customer list for given info.

```
GET /businessapi/v1/customerservice/getIdenticalCustomers
```

Description

Gets the duplicate customer list for given info

Parameters

Type	Name	Schema
Query	company_name <i>optional</i>	string
Query	dba_name <i>optional</i>	string
Query	first_name <i>optional</i>	string
Query	identification_no <i>optional</i>	string
Query	last_name <i>optional</i>	string
Query	page_size <i>optional</i>	string
Query	start_index <i>optional</i>	string

Responses

HTTP Code	Description	Schema
200	available duplicate customer record collection for the given input	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.48. API to fetch the support contact whose contact associated with organization id specified.

```
GET /businessapi/v1/customerservice/getOrgSupportContactInfo
```

Description

API to fetch the support contact whose contact associated with organization id specified

Parameters

Type	Name	Schema
Query	organization_id <i>optional</i>	string

Responses

HTTP Code	Description	Schema
200	the support contact list JSON object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.49. API to check the user is valid based on email address and pid.

```
GET /businessapi/v1/customerservice/isValidUser
```

Description

API to check the user is valid based on email address and pid

Parameters

Type	Name	Schema
Query	email_address <i>optional</i>	string
Query	pid <i>optional</i>	string

Responses

HTTP Code	Description	Schema
200	the support contact list JSON object	file

Produces

- `application/json`

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.4.50. API to save the relations records.

```
POST /businessapi/v1/customerservice/relationships
```

Description

API to save the relations records.

Parameters

Type	Name	Description	Schema
Body	body <i>optional</i>	the relations collection object	file

Responses

HTTP Code	Description	Schema
201	Response message success/failure	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data,write:data

2.4.51. Saves the submitted capitalstream customer details and its children based on the cascade configuration.

```
POST /businessapi/v1/customerservice/saveCSCustomer
```

Description

Saves the submitted capitalstream customer details and its children based on the cascade configuration. Consist of only specific required fields from 'customer_address_contact' objects with duplicate check for only Capitalstream Customers

Parameters

Type	Name	Description	Schema
Body	body <i>optional</i>	CS Customer Details	file

Responses

HTTP Code	Description	Schema
201	Save the Capitalstream Customer details	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data,write:data

2.4.52. Saves the submitted customer details and its children based on the cascade configuration.

```
POST /businessapi/v1/customerservice/saveCustomer
```

Description

Saves the submitted customer details and its children based on the cascade configuration. Consist of all fields from 'customer_address' objects with duplicate check for both Capitalstream and Core Customers

Parameters

Type	Name	Description	Schema
Body	body <i>optional</i>	Customer Details	file

Responses

HTTP Code	Description	Schema
201	Save the basic Customer details	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data,write:data

2.5. DocumentBusinessService

DocumentBusinessService describes service actions associated with documents.

2.5.1. REST API to fetch document for the given document id.

```
GET /businessapi/v1/documentservice/getDocumentById
```

Description

REST API to fetch document for the given document id.

Parameters

Type	Name	Description	Schema
Query	document_id <i>required</i>	document identifier for the document	string
Query	version_no <i>optional</i>	version number of the document required	string

Responses

HTTP Code	Description	Schema
200	Send the document for the corresponding request param in base64 format	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.5.2. API to fetch the related documents for the given Entity

```
GET /businessapi/v1/documentservice/getDocumentsForEntity
```

Description

API to fetch the related documents for the given Entity

Parameters

Type	Name	Description	Schema
Query	entity_id <i>required</i>	the entity Id to which the document is mapped	string
Query	platform <i>required</i>	retrieve documents which are uploaded via specified platform value. Ex.PORTAL etc	string

Responses

HTTP Code	Description	Schema
200	Send the list of documents corresponding to the entity id.	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.5.3. API to fetch the Selected documents to send portal for the given Entity Contact.

```
GET /businessapi/v1/documentservice/getDocumentsForEntityContact
```

Description

API to fetch the Selected documents to send portal for the given Entity Contact.

Parameters

Type	Name	Description	Schema
Query	contact_id <i>required</i>	the contact id to whom the document sent	string
Query	entity_id <i>required</i>	the entity Id to which the document is mapped	string
Query	owning_id <i>required</i>	the owning id, owner identifier of the document.Eg, Customer, Supplier etc	string

Responses

HTTP Code	Description	Schema
200	Send the list of selected document for portal available for the entity type for corresponding contact	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.5.4. API to fetch the requested portal documents for the given Entity.

```
GET /businessapi/v1/documentservice/getReqPortDocumentsForEntity
```

Description

API to fetch the requested portal documents for the given Entity.

Parameters

Type	Name	Description	Schema
Query	entity_id required	the entity Id to which the document is mapped	string
Query	owning_id required	the owning id, owner identifier of the document.Eg, Customer, Supplier etc	string

Responses

HTTP Code	Description	Schema
200	Send the list of document requested for portal available for the entity type	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.5.5. API to fetch the Selected documents to send portal for the given Entity.

```
GET /businessapi/v1/documentservice/getSelectedDocumentsForEntity
```

Description

API to fetch the Selected documents to send portal for the given Entity.

Parameters

Type	Name	Description	Schema
Query	entity_id <i>required</i>	the entity Id to which the document is mapped	string
Query	owning_id <i>required</i>	the owning id, owner identifier of the document.Eg, Customer, Supplier etc	string

Responses

HTTP Code	Description	Schema
200	Send the list of selected document for portal available for the entity type	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.5.6. API to fetch the requested portal details for the given Supplier.

```
GET /businessapi/v1/documentservice/sendRequestPortalDetailsForSupplier
```

Description

API to fetch the requested portal details for the given Supplier.

Parameters

Type	Name	Description	Schema
Query	supplier_id <i>required</i>	the supplier id who requesting the portal details	string

Responses

HTTP Code	Description	Schema
200	Send the portal details which are required for supplier	file

Produces

- [application/json](#)

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.5.7. Rest service method for uploading the documents to the customer based on the document type.Rest service method for uploading the documents to the customer based on the document type.

```
POST /businessapi/v1/documentservice/uploadDocsToCustomerByDocType
```

Description

Rest service method for uploading the documents to the customer based on the document type.

Parameters

Type	Name	Description	Schema
Query	customer_id <i>required</i>	The entity Id to which the document must be mapped	string
Query	document_type <i>required</i>	The document type code in which document need to be mapped	string
Body	body <i>required</i>	the attachments from the form	file

Responses

HTTP Code	Description	Schema
200	file entity details as response	file

Consumes

- `multipart/form-data`

Produces

- `application/json`

Security

Type	Name	Scopes
oauth2	<code>cs_auth</code>	read:data

2.5.8. Rest service method for uploading non-entity based document using document storage service.

```
POST /businessapi/v1/documentservice/uploadDocumentById
```

Description

Rest service method for uploading non-entity based document using document storage service.

Parameters

Type	Name	Description	Schema
Query	<code>document_id</code> <i>required</i>	The document id to be set for the document.	string
Body	<code>body</code> <i>required</i>	the attachments from the form	file

Responses

HTTP Code	Description	Schema
200	file entity details as response	file

Consumes

- `multipart/form-data`

Produces

- `application/json`

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.5.9. Rest service method for uploading the documents using document storage service.

```
POST /businessapi/v1/documentservice/uploadDocuments
```

Description

Rest service method for uploading the documents using document storage service.

Parameters

Type	Name	Description	Schema
Body	<code>body required</code>	the attachments from the form	file

Responses

HTTP Code	Description	Schema
200	file entity details as response	file

Consumes

- `multipart/form-data`

Produces

- `application/json`

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.5.10. Rest service method for uploading the documents to the customer based on the document type.

```
POST /businessapi/v1/documentservice/uploadDocumentsToCustomer
```

Description

Rest service method for uploading the documents to the customer based on the document type.

Parameters

Type	Name	Description	Schema
Query	customer_id <i>required</i>	The entity Id to which the document must be mapped	string
Body	body <i>required</i>	the attachments from the form	file

Responses

HTTP Code	Description	Schema
200	file entity details as response	file

Consumes

- `multipart/form-data`

Produces

- `application/json`

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.5.11. Rest service method for uploading the documents to an entity based on Document Type.

```
POST /businessapi/v1/documentservice/uploadEntityDocumentByDocType
```

Description

Rest service method for uploading the documents to an entity based on Document Type.

Parameters

Type	Name	Description	Schema
Query	document_type_code_required	The document type code in which document need to be mapped	string
Query	entity_id_required	The entity Id to which the document must be mapped	string
Body	body_required	the attachments from the form	file

Responses

HTTP Code	Description	Schema
200	file entity details as response	file

Consumes

- `multipart/form-data`

Produces

- `application/json`

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.5.12. Rest service method for uploading the documents to an entity.

```
POST /businessapi/v1/documentservice/uploadEntityDocuments
```

Description

Rest service method for uploading the documents to an entity.

Parameters

Type	Name	Description	Schema
Query	document_type_id_required	The document type id in which document need to be mapped	string

Type	Name	Description	Schema
Query	entity_id <i>required</i>	The entity Id to which the document must be mapped	string
Body	body <i>optional</i>	the attachments from the form	file

Responses

HTTP Code	Description	Schema
200	file entity details as response	file

Consumes

- `multipart/form-data`

Produces

- `application/json`

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.6. EntityBusinessService

EntityBusinessService describes service actions associated with.

2.6.1. API to get the entities by array of entity id and object type (Customer, Supplier, Fin Request, Fin Trx).

```
GET /businessapi/v1/entityservice/getEntitiesByIdListAndObjType
```

Description

API to get the entities by array of entity id and object type (Customer, Supplier, Fin Request, Fin Trx)

Parameters

Type	Name	Schema
Query	entity_id <i>optional</i>	< string > array(multi)

Type	Name	Schema
Query	object_type <i>optional</i>	string

Responses

HTTP Code	Description	Schema
200	Send the entity collection for the corresponding request param	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.6.2. API to get the entity Name by entity id and object type.

```
GET /businessapi/v1/entityservice/getEntityNameByIdAndObjType
```

Description

API to get the entity Name by entity id and object type

Parameters

Type	Name	Schema
Query	entity_id <i>optional</i>	string
Query	object_type <i>optional</i>	string

Responses

HTTP Code	Description	Schema
200	Send the entity name for the corresponding request param	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7. LoanBusinessService

Describes functionality shared across multiple ServiceActions associated with performing "Loan" rContactHelper related functions.

2.7.1. Creates the financial transaction object and its children which are configured in the cascade for the given customer id, program id and finance request id.

```
GET /businessapi/v1/loanservice/createCLTransaction
```

Description

Creates the financial transaction object and its children which are configured in the cascade for the given customer id, program id and finance request id.

Parameters

Type	Name	Description	Schema
Query	customer_id <i>optional</i>	customer id	string
Query	fin_request_id <i>optional</i>	finance request id	string
Query	finance_program_id <i>optional</i>	program id	string

Responses

HTTP Code	Description	Schema
200	financial transaction object and its children which are configured in the cascade	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	write:data,read:data

2.7.2. Creates the Finance Request object for the given customer and sends it as response.

```
GET /businessapi/v1/loanservice/createFinanceRequest
```

Description

Creates the Finance Request object for the given customer and sends it as response

Parameters

Type	Name	Description	Schema
Query	customer_id <i>optional</i>	customer id for which finance request has to be created	string

Responses

HTTP Code	Description	Schema
200	JSON finance request object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	write:data,read:data

2.7.3. Submits the finance request.

```
POST /businessapi/v1/loanservice/finance_request
```

Description

Submits the finance request.

Parameters

Type	Name	Description	Schema
Body	body <i>optional</i>	finance request with transactions and relations	file

Responses

HTTP Code	Description	Schema
201	basic finance request and transaction details	file

Consumes

- `application/json`

Produces

- `application/json`

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.4. Rest service method to get the customer relationships available for a Finance Request.

```
GET /businessapi/v1/loanservice/frRelationships
```

Description

Rest service method to get the customer relationships available for a Finance Request.

Parameters

Type	Name	Description	Schema
Query	customer_id <i>optional</i>	customer id whose relationships are required for the Finance Request	string
Query	page_size <i>optional</i>		string
Query	start_index <i>optional</i>	start index of the records to be fetched	string

Responses

HTTP Code	Description	Schema
200	customer relationships for Finance request in JSON	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.5. Rest service method to get all the active transaction details of a customer for the given customer id.

```
GET /businessapi/v1/loanservice/getCustomerActiveTransactionDetails
```

Description

Rest service method to get all the active transaction details of a customer for the given customer id.

Parameters

Type	Name	Schema
Query	customer_id <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.6. Rest service method for getting the Capitalstream booked loans by Entity Number and Line of Business code.

```
GET /businessapi/v1/loanservice/getCustomerCSBookedLoans
```

Description

Rest service method for getting the Capitalstream booked loans by Entity Number and Line of Business code.

Parameters

Type	Name	Description	Schema
Query	entity_no <i>required</i>	the customer entity number to which the loans to be retrieved	string
Query	lob <i>required</i>	the Line Of Business Code (CL/EF)	string

Responses

HTTP Code	Description	Schema
200	success response if cs booked loans retrived or error response if failed.	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.7. Rest service method for getting the core system loan information by customer id.

```
GET /businessapi/v1/loanservice/getCustomerCoreSystemLoans
```

Description

Rest service method for getting the core system loan information by customer id.

Parameters

Type	Name	Description	Schema
Query	customer_id <i>optional</i>	the entity Id to which the document must be mapped	string

Responses

HTTP Code	Description	Schema
200	the response, success if the document uploaded successfully or error response if failed.	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.8. Rest service method to get all the transaction details of a customer for the given customer id.

```
GET /businessapi/v1/loanservice/getCustomerTransactionDetails
```

Description

Rest service method to get all the transaction details of a customer for the given customer id.

Parameters

Type	Name	Schema
Query	customer_id <i>optional</i>	string
Query	page_size <i>optional</i>	string
Query	start_index <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.9. Rest service method for getting the transaction objects by customer id.

```
GET /businessapi/v1/loanservice/getCustomerTransactionObjects
```

Description

Rest service method for getting the transaction objects by customer id.

Parameters

Type	Name	Description	Schema
Query	customer_id <i>optional</i>	the attachments from the form	string
Query	page_size <i>optional</i>		string
Query	start_index <i>optional</i>		string

Responses

HTTP Code	Description	Schema
200	the response, success if the document uploaded successfully or error response if failed.	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.10. API to save a relation record using entity number.

```
POST /businessapi/v1/loanservice/loans/entity_no/{entity_no}/relationships
```

Description

API to save a relation record using entity number..

Parameters

Type	Name	Description	Schema
Path	entity_no <i>optional</i>	the entity number of the request/transaction entity for which the relation needs to be saved	string
Body	body <i>optional</i>	the relation object	file

Responses

HTTP Code	Description	Schema
201	Response message success/failure	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	write:data,read:data

2.7.11. Deletes the relationship records for the request/transaction entity using entity number for the parent entity and ids for relations.

```
DELETE /businessapi/v1/loanservice/loans/entity_no/{entity_no}/relationships
```

Description

Deletes the relationship records for the request/transaction entity using entity number for the parent entity and ids for relations.

Parameters

Type	Name	Description	Schema
Path	entity_no <i>optional</i>	the entity number of the request/transaction entity for which the relationship needs to be deleted.	string
Body	body <i>optional</i>	the list of relation record ids to be deleted.	< string > array

Responses

HTTP Code	Description	Schema
204	the number of records deleted.	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	write:data,read:data

2.7.12. Create a relationship template record for finance request and transaction entity using entity number.

```
GET /businessapi/v1/loanservice/loans/entity_no/{entity_no}/relationships/template
```

Description

Create a relationship template record for finance request and transaction entity using entity number.

Parameters

Type	Name	Description	Schema
Path	entity_no <i>optional</i>	the entity number of the request/transaction entity for which the relation needs to be created	string
Query	related_customer_no <i>optional</i>	the entity number of the customer that needs to be added as a related party.	string
Query	relation_type_code <i>optional</i>	the relation type code.	string

Responses

HTTP Code	Description	Schema
200	the relation json object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.13. Get the status code, status description for the financial transaction / finance request

```
GET /businessapi/v1/loanservice/loans/entity_no/{entity_no}/status
```

Description

Get the status code, status description for the financial transaction / finance request with the provided entity number and object type

Parameters

Type	Name	Description	Schema
Path	entity_no <i>required</i>	Entity number of financial transaction / finance request entity for which the status needs to be retrieved	string

Type	Name	Description	Schema
Query	object_type <i>required</i>	financial_trx / finance_request object type	string

Responses

HTTP Code	Description	Schema
200	the response, success if the document uploaded successfully or error response if failed.	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.14. API to save a relation record.

```
POST /businessapi/v1/loanservice/loans/{entity_id}/relationships
```

Description

API to save a relation record.

Parameters

Type	Name	Description	Schema
Path	entity_id <i>optional</i>	the id of the request/transaction entity for which the relation needs to be saved	string
Body	body <i>optional</i>	the relation object	file

Responses

HTTP Code	Description	Schema
201	Response message success/failure	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	write:data,read:data

2.7.15. Deletes the relationship records for the request/transaction entity.

```
DELETE /businessapi/v1/loanservice/loans/{entity_id}/relationships
```

Description

Deletes the relationship records for the request/transaction entity

Parameters

Type	Name	Description	Schema
Path	entity_id <i>optional</i>	the id of the request/transaction entity for which the relationship needs to be deleted.	string
Body	body <i>optional</i>	the list of relation record ids to be deleted.	< string > array

Responses

HTTP Code	Description	Schema
204	the number of records deleted	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	write:data,read:data

2.7.16. Create a relationship template record for finance request and transaction entity.

```
GET /businessapi/v1/loanservice/loans/{entity_id}/relationships/template
```

Description

Create a relationship template record for finance request and transaction entity.

Parameters

Type	Name	Description	Schema
Path	entity_id <i>optional</i>	the id of the request/transaction entity for which the relation needs to be created	string
Query	related_customer_id <i>optional</i>	the id of the request/transaction entity that needs to be added as a related party.	string
Query	relation_type_code <i>optional</i>	the relation type code.	string

Responses

HTTP Code	Description	Schema
200	the relation json object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.17. Rest service method to get the relationships available for a Finance Request or Transaction.

```
GET /businessapi/v1/loanservice/relationships
```

Description

Rest service method to get the relationships available for a Finance Request or Transaction.

Parameters

Type	Name	Description	Schema
Query	entity_id <i>optional</i>	id of the finance request or transaction entity.	string
Query	page_size <i>optional</i>	number of records required	string
Query	start_index <i>optional</i>	start index of the records to be fetched	string

Responses

HTTP Code	Description	Schema
200	relationships for Finance request/Transaction entity in JSON	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.18. Saves the submitted financial transaction and its children based on the cascade configuration.

```
POST /businessapi/v1/loanservice/saveCLTransaction
```

Description

Saves the submitted financial transaction and its children based on the cascade configuration.

Parameters

Type	Name	Description	Schema
Body	body <i>optional</i>	financial transaction	file

Responses

HTTP Code	Description	Schema
201	basic financial transaction details	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.19. Saves the finance request object submitted.

```
POST /businessapi/v1/loanservice/saveFinanceRequest
```

Description

Saves the finance request object submitted.

Parameters

Type	Name	Description	Schema
Body	body <i>optional</i>	json finance request	file

Responses

HTTP Code	Description	Schema
201	finance request details	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.7.20. Submits the finance request associated to the submitted financial transaction.

```
POST /businessapi/v1/loanservice/submitCLTransaction
```

Description

Submits the finance request associated to the submitted financial transaction.

Parameters

Type	Name	Description	Schema
Body	body <i>optional</i>	financial transaction	file

Responses

HTTP Code	Description	Schema
201	basic finance request and transaction details	file

Consumes

- application/json

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.8. LookupBusinessService

LookupBusinessService describes multiple service actions associated with Lookups and expose them as rest web services.

2.8.1. Get Lookup as JSON object for the given lookup name and category code.

```
GET /businessapi/v1/lookupservice/getFilteredLookupByExtendedField
```

Description

Get Lookup as JSON object for the given lookup name and category code.

Parameters

Type	Name	Description	Schema
Query	filter_query <i>optional</i>	the filter query	string
Query	lookup_name <i>optional</i>	name of the lookup	string

Responses

HTTP Code	Description	Schema
200	JSON lookup object	file

Produces

- `application/json`

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.8.2. Get Lookup as JSON object for the given lookup name,category code and line of business code.

```
GET /businessapi/v1/lookupservice/getFilteredLookupByExtendedFieldAndLOBCode
```

Description

Get Lookup as JSON object for the given lookup name,category code and line of business code.

Parameters

Type	Name	Description	Schema
Query	filter_query <i>optional</i>	the filter query	string
Query	lob_code <i>optional</i>	line of business code	string
Query	lookup_name <i>optional</i>	name of the lookup	string

Responses

HTTP Code	Description	Schema
200	JSON lookup object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.8.3. Get Lookup as JSON object for the given lookup name.

```
GET /businessapi/v1/lookupservice/getLookupByName
```

Description

Get Lookup as JSON object for the given lookup name.

Parameters

Type	Name	Description	Schema
Query	lookup_name <i>optional</i>	name of the lookup	string

Responses

HTTP Code	Description	Schema
200	JSON lookup object	json_JSONObject

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

Example HTTP response

Response 200

```
{ }
```

2.8.4. Get Lookup as JSON object for the given lookup name and line of business code.

```
GET /businessapi/v1/lookupservice/getLookupByNameAndLOB
```

Description

Get Lookup as JSON object for the given lookup name and line of business code.

Parameters

Type	Name	Description	Schema
Query	lob_code <i>optional</i>	line of business code	string
Query	lookup_name <i>optional</i>	name of the lookup	string

Responses

HTTP Code	Description	Schema
200	JSON lookup object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.8.5. Get Lookups as JSON object for the given lookup names and line of business code.

```
GET /businessapi/v1/lookupservice/lookups
```

Description

Get Lookups as JSON object for the given lookup names and line of business code.

Parameters

Type	Name	Description	Schema
Query	lob_code <i>optional</i>	line of business code	string
Query	lookup_name <i>optional</i>	name of the lookups	< string > array(multi)

Responses

HTTP Code	Description	Schema
200	JSON Array of lookup objects	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.9. NotificationBusinessService

Notification Business Service for exposing the notification as REST Service.

2.9.1. Gets the notification messages for the capitalstream object and id passed.

```
GET /businessapi/v1/notificationservice/pushMessages
```

Description

Gets the notification messages for the capitalstream object and id passed.

Parameters

Type	Name	Description	Schema
Query	entity_id <i>optional</i>	the entity id	string
Query	object_type <i>optional</i>	the object type	string

Responses

HTTP Code	Description	Schema
200	the notification messages	file

Produces

- `application/json`

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.10. ProgramBusinessService

ProgramBusinessService describes multiple service actions associated with.

2.10.1. Get Finance Program basic details for the given program id.

```
GET /businessapi/v1/programservice/getProgramDetailsById
```

Description

Get Finance Program basic details for the given program id.

Parameters

Type	Name	Description	Schema
Query	program_id <i>optional</i>	program id	string

Responses

HTTP Code	Description	Schema
200	Response object containing program details	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.10.2. Get Program Object for the given program id.

```
GET /businessapi/v1/programservice/getProgramObjectById
```

Description

Get Program Object for the given program id.

Parameters

Type	Name	Description	Schema
Query	program_id <i>optional</i>	program id	string

Responses

HTTP Code	Description	Schema
200	Response object containing program object	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.10.3. Get Finance Program basic details that are enabled for webservices.

```
GET /businessapi/v1/programservice/getProgramUTC
```

Description

Get Finance Program basic details that are enabled for webservices

Parameters

Type	Name	Schema
Query	program_id <i>optional</i>	string

Responses

HTTP Code	Description	Schema
200	Response object containing program details	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.10.4. Get available finance programs objects for the logged in user.

```
GET /businessapi/v1/programservice/getPrograms
```

Description

Get available finance programs objects for the logged in user.

Responses

HTTP Code	Description	Schema
200	Response object for web service	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.10.5. Get available finance programs details for the given loan officer id after applying the user record security.

```
GET /businessapi/v1/programservice/getProgramsDetailsForLoanOfficer
```

Description

Get available finance programs details for the given loan officer id after applying the user record security.

Parameters

Type	Name	Description	Schema
Query	loan_officer_id <i>optional</i>	Loan officer id	string

Responses

HTTP Code	Description	Schema
200	list of program details	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.10.6. Get Finance Program basic details that are enabled for webservices.

```
GET /businessapi/v1/programservice/getProgramsEnabledForWebService
```

Description

Get Finance Program basic details that are enabled for webservices

Responses

HTTP Code	Description	Schema
200	Response object containing program details	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.10.7. Get available finance programs objects for the given loan officer id after applying the user record security.

```
GET /businessapi/v1/programservice/getProgramsForLoanOfficer
```

Description

Get available finance programs objects for the given loan officer id after applying the user record security.

Parameters

Type	Name	Description	Schema
Query	loan_officer_id <i>optional</i>	Loan officer id	string

Responses

HTTP Code	Description	Schema
200	Response object for web service	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	read:data

2.11. UserBusinessService

UserBusinessService describes service actions associated with.

2.11.1. GET /businessapi/v1/userservice/users

Parameters

Type	Name	Schema
Query	username <i>optional</i>	string

Responses

HTTP Code	Schema
200	file

Produces

- application/json

Security

Type	Name	Scopes
oauth2	cs_auth	write:data

2.11.2. Gets the permissions available for a user with the given username.

```
GET /businessapi/v1/userservice/users/{username}/permissions
```

Description

Gets the permissions available for a user with the given username

Parameters

Type	Name	Description	Schema
Path	username <i>required</i>	username of the user to get permissions	string

Responses

HTTP Code	Description	Schema
200	permissions as response	file

Produces

- `application/json`

Security

Type	Name	Scopes
oauth2	cs_auth	read:data