



ApigateHub API Specification [Northbound] – Voice

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Voice API Specification

Voice API Specification will cover the following operations;

- Phone Number Lease Request – Single
- Phone Number Lease Request – Group
- Phone Number Lease Release – Single
- Phone Number Lease Release – Group
- Phone Number Lease Query – Single
- Phone Number Lease Query – Group
- Reserve Customer Lease Numbers
- View Customer Details

NOTE:

All of API described in this document for this platform uses standard HTTP protocol. Parameters are passed as HTTP parameters and values of each parameter must be URL-encoded. The URL, required HTTP method, parameters and their names are described in detail in their corresponding sections below. All API response is formatted using JavaScript Object Notation (JSON) format.

1 Access Token

Before you can utilize the API defined in this document, you will need to obtain an access token from the API provider. The access token will be used to authenticate your API calls. Please contact API provider to obtain your access token. The access token must be sent in the HTTP header using the Authorization HTTP header. More details are available in the Mandatory HTTP Header Fields section.

1.1 Mandatory HTTP Header Fields

All API calls must set the Authorization HTTP header for authentication purposes. The value of the Authorization HTTP header shall be set to your access token string, prefixed with the string 'Bearer'. Example as below:

```
GET /api/leaserequest HTTP/1.1
Host:
api.acs.mife.axiata.com?phone=60123456789&cw=&sign=65855af56418d5e883a76c69499f118435e8
89af22278884f9ca218b2c5fe375
Accept: text/html,text/plain
Accept-Encoding:
Accept-Language: en-US,en;q=0.8
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/52.0.2743.116 Safari/537.36
Authorization: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpYXQiOiJlOTc5Nzk0NTgsImZlcyI6ImV1d3dy5jdGFwcmHM
uY29tliwiYXVkljoid3d3LmN0YXBwcy5jb20iLCJ1c2VyljoieYXhpYXRhIn0.K9TkBisWbQ1asN5_DC-
fXXzbIS7CqRmWDQDj7GKBjOM
```

2 Phone Number Lease Request API – Single

HTTP Method	POST
URL	http://<host>/api/v1/leasesingle/request

Operation

Request a lease of a temporary phone number to be assigned to the user. Calls to the leased number will be routed to the platform and the platform bridges the call to the actual user number.

Note: If the customer account has exclusively reserved lease numbers, the lease number will be picked from one within the reserved lease numbers. If none is available, insufficient resources error code will be returned regardless if there are still available numbers in the general pool.

2.1 Request

Example API request:

```
POST /axiata/api/v1/leasesingle/request HTTP/1.1
Host: localhost
Authorization: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpYXQiOiJlMDE1MDc0NjE2NzAsImZlcyI6ImVud3dy5jdGFwcmMuY29tIiwiaXNjb2IjOiJ3d3LmN0YXBwcy5jb20iLCJ1c2VyljoiYXBpc2FtcGxln0.CzeTLw3nZgmu2d5W1U0jDqKlweaV4csc-BRm-R1NCco
Content-Type: application/x-www-form-urlencoded
Cache-Control: no-cache
Postman-Token: 15a17d38-7e31-7280-6403-8804de70c4fd

customer_id=8&phone=0195730424&imsi=502190123456789&mcc=502&mnc=19&expiry_value=1&expiry_unit=months
```

2.1.1 Request Parameters

Parameter name	Description	Mandatory?	Example Value
customer_id	The customer unique id number obtained when calling the create customer API in the customer management API.	Y	1
phone	The phone number of the user. In other words, this is the phone number that you wish to map to from the temporary phone number that will be assigned by the system. Must include country code.	Y	60123456789
imsi	The IMSI of the subscriber. Optional.	N	502190123456789
mcc	Mobile country code. Optional.	N	502
mnc	Mobile network code. Optional but mandatory if mcc is specified.	See description	19
expiry_value	Expiry value to use for calculating the expiry timestamp for this lease. The meaning and magnitude of this expiry value is denoted by the 'expiry_unit' parameter.	Y	3
expiry_unit	Expiry unit to use for calculating the expiry timestamp for this lease. The parameter denotes the value of the type of the 'expiry_value' parameter. Valid values are: <ul style="list-style-type: none"> years months days hours minutes 	Y	months

2.2 Response

Example JSON-encoded API response:

```
{
  "status": 0,
  "description": "Success",
  "reference_id": "fab6213-5404-4da9-9c3a-c29c3fbfb0d2",
  "lease_info": {
    "0388880000": "0195730424"
  },
  "expire": "2017-06-22 12:07:17"
}
```

2.2.1 Response Parameters

Parameter name	Description	Usage
status	Status code of this lease request. Refer to the API status code definitions section for more information.	0
description	Textual description of the returned status code.	Success
reference_id	Unique reference id generated by system for this lease request. Subsequent transactions / API calls must use this unique reference id to identify the request. This field will be empty if the request is not successful.	fab6213-5404-4da9-9c3a-c29c3fbfb0d2
lease_info	An array containing the mapping of leased phone number to actual user phone number. This field will be empty if the request is not successful.	"0388880000": "0195730424"
expire	The expiry date and time for the granted lease. Format is yyyy-mm-dd hh:mm:ss (24 hour format). This field will be empty if the request is not successful.	2016-07-23 00:00:00

3 Phone Number Lease Request API – Group

HTTP Method	POST
URL	http://<host>/api/v1/leasegroup/request
Operation	Request a lease of temporary phone numbers to be assigned to the users in a group. Calls to the leased number will be routed to the platform and the platform bridges the call to the actual user number. Recipient of calls from users in the same group will see caller ID of the call as the leased number of the caller.

Note: Calls are only allowed between the users in the group only.

Note: If the customer account has exclusively reserved lease numbers, the lease number will be picked from one within the reserved lease numbers. If none is available, insufficient resources error code will be returned regardless if there are still available numbers in the general pool.

3.1 Request

Example API request:

```
POST /axiata/api/v1/leasegroup/request HTTP/1.1
Host: localhost
Authorization: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpYXQiOiJlMDc0NjE2NzAsImZlcnVzcyI6ImVud3dy5jdGFwcmHMuY29tliwiYXVkljoid3d3LmN0YXBwcy5jb20iLCJ1c2VyljoiYXBpc2FtcGxln0.CzeTLw3nZgmu2d5W1U0jDqKlweaV4csc-BRm-R1NCco
Content-Type: application/x-www-form-urlencoded
Cache-Control: no-cache
Postman-Token: 38acd629-bd64-fee5-ce6b-54e2ce4920d2

customer_id=8&phone1=0195730424&imsi1=502190123456789&mcc1=502&mnc1=19&phone2=0125740183&imsi2=502190123456789&mcc2=502&mnc2=19&expiry_value=1&expiry_unit=days
```

3.1.1 Request Parameters

Parameter name	Description	Mandatory?	Example Value
customer_id	The customer unique id number obtained when calling the create customer API in the customer management API.	Y	1
phone1	The phone number of the first user. This is the phone number that you wish to map to from the temporary phone number that will be assigned by the system to the first user. Must include country code.	Y	60123456789
imsi1	The IMSI of the first phone number. Optional.	N	502190123456789
mcc1	Mobile country code of the first phone number. Optional.	N	502
mnc1	Mobile network code of the first phone number. Optional but mandatory if mcc is specified.	See description	19
phone2	The phone number of the second user. This is the phone number that you wish to map to from the	Y	60129876543

	temporary phone number that will be assigned by the system to the second user. Must include country code.		
imsi2	The IMSI of the second phone number. Optional.	N	502190123456790
mcc2	Mobile country code of the second phone number. Optional.	N	502
mnc2	Mobile network code of the second phone number. Optional but mandatory if mcc is specified.	See description	19
expiry_value	Expiry value to use for calculating the expiry timestamp for this lease. The meaning and magnitude of this expiry value is denoted by the 'expiry_unit' parameter.	Y	3
expiry_unit	Expiry unit to use for calculating the expiry timestamp for this lease. The parameter denotes the value of the type of the 'expiry_value' parameter. Valid values are: <ul style="list-style-type: none"> years months days hours minutes 	Y	months

3.2 Response

Example JSON-encoded API response:

```
{
  "status": 0,
  "description": "Success",
  "reference_id": "6903a48b-f9f1-41be-b032-18c5e747b6a8",
  "lease_info": {
    "0388880002": "0195730424",
    "0388880003": "0125740183"
  },
  "expire": "2017-06-22 11:55:10"
}
```

3.2.1 Response Parameters

Parameter name	Description	Example Value
status	Status code of this lease request. Refer to the API status code definitions section for more information.	0
description	Textual description of the returned status code.	Success
reference_id	Unique reference id generated by system for this lease request. Subsequent transactions / API calls must use this unique reference id to identify the request. This field will be empty if the request is not successful.	e129f27c-5103-5c5c-844b-cdf0a15e160d
lease_info	An array containing the mapping of leased phone numbers to actual user phone numbers. This field will be empty if the request is not successful.	"0388880002": "0195730424", "0388880003": "0125740183"

expire	The expiry date and time for the granted lease. Format is yyyy-mm-dd hh:mm:ss (24 hour format). This field will be empty if the request is not successful.	2016-07-23 00:00:00
--------	--	------------------------

4 Phone Number Lease Release API – Single

HTTP Method	POST
URL	http://<host>/api/v1/leasesingle/release
Operation	Relinquish a lease of a temporary phone number leased previously using the <i>Phone Number Lease Request - Single API</i> . Calls to the leased number will be routed to the platform but will not be bridged to the actual user number anymore.

4.1 Request

Example API request:

```
POST /axiata/api/v1/leasesingle/release HTTP/1.1
Host: localhost
Authorization: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpYXQiOiJlMDC0NjE2NzAsImZlcnV6IjoiYXBpc2FtcGxln0.CzeTLw3nZgmu2d5W1U0jDqKlweaV4csc-BRm-R1NCco
Content-Type: application/x-www-form-urlencoded
Cache-Control: no-cache
Postman-Token: df461812-b0ba-82ac-ffe9-fdc5897a4936

reference_id=c39bb769-19ad-4270-a025-8ea73a25e038
```

4.1.1 Request Parameters

Parameter name	Description	Mandatory?	Example Value
reference_id	Unique reference id generated and returned by system after a successful lease request.	Y	33d10ee4-e270-491c-a5a8-ed8c161d419f

4.2 Response

Example JSON-encoded API response:

```
{
  "status": 0,
  "description": "Success"
}
```


5.2.1 Response Parameters

Parameter name	Description	Usage
status	Status code of this lease request. Refer to the API status code definitions section for more information.	0
description	Textual description of the returned status code.	Success

6 Phone Number Lease Query API – Single

HTTP Method	POST
URL	http://<host>/api/v1/leasesingle/query
Operation	Query information of a lease obtained previously using the Phone Number Lease Request - Single API.

6.1 Request

Example API request:

```
POST /axiata/api/v1/leasesingle/query HTTP/1.1
Host: localhost
Authorization: Bearer
eyJ0eXAI0iJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpYXQiOiJEMDc0NjE2NzAsImZlcyI6ImV1d3dy5jdGFwcmMuY29tliwiYXVkljoid3d3LmN0YXBwcy5jb20iLCJ1c2VyYyoiYXBpc2FtcGxln0.CzeTLw3nZgmu2d5W1U0jDqKIweaV4csc-BRm-R1NCco
Content-Type: application/x-www-form-urlencoded
Cache-Control: no-cache
Postman-Token: 518d848f-7b4d-d2e6-a72e-e8d2431ba865
reference_id=c39bb769-19ad-4270-a025-8ea73a25e038
```

6.1.1 Request Parameters

Parameter name	Description	Mandatory?	Example Value
reference_id	Unique reference id generated and returned by system after a successful lease request.	Y	902493a9-ca64-4d79-9075-002def32a261

6.2 Response

Example JSON-encoded API response:

```
{
  "status": 0,
  "description": "Success",
  "reference_id": "902493a9-ca64-4d79-9075-002def32a261",
  "lease_info": {
    "0388880001": "0195730424"
  },
  "expire": "2017-06-22 11:33:16",
  "customer_id": "1"
}
```

6.2.1 Response Parameters

Parameter name	Description	Example Value
status	Status code of this lease request. Refer to the API status code definitions section for more information.	0
description	Textual description of the returned status code.	Success
reference_id	Unique reference id generated by system for this lease request after a successful lease request.	e129f27c-5103-5c5c-844b-cdf0a15e160d
lease_info	An array containing the mapping of leased phone numbers to actual user phone numbers. This field will be empty if the request is not successful.	"0388880001": "0195730424"
expire	The expiry date and time for the granted lease after a successful lease request. Format is <i>yyyy-mm-dd hh:mm:ss</i> (24 hour format).	2016-07-23 00:00:00
customer_id	The unique customer account id which this lease belongs to. The unique customer account id is generated when calling the create customer API in the customer management API.	1

7 Phone Number Lease Query API – Group

HTTP Method	POST
URL	http://<host>/api/v1/leasegroup/query
Operation	Query information of a least obtained previously using the <i>Phone Number Lease Request – Group API</i> .

7.1 Request

Example API request:

```
POST /axiata/api/v1/leasegroup/query HTTP/1.1
Host: localhost
Authorization: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpYXQiOiJlMDc0NjE2NzAsImZlcyI6ImVud3dy5jdGFwcmHMuY29tliwiYXVkljoid3d3LmN0YXBwcy5jb20iLCJ1c2VyljoiYXBpc2FtcGxln0.CzeTLw3nZgmu2d5W1U0jDqKlweaV4csc-BRm-R1NCco
Content-Type: application/x-www-form-urlencoded
Cache-Control: no-cache
Postman-Token: f8f6dfd-bb3f-cbd5-2873-f65c77eb8632

reference_id=0ebd1146-1aff-46b5-aaf3-57c2da6f11cb
```

7.1.1 Request Parameters

Parameter name	Description	Mandatory?	Example Value
----------------	-------------	------------	---------------

reference_id	Unique reference id generated and returned by system after a successful lease request.	Y	902493a9-ca64-4d79-9075-002def32a261
--------------	--	---	--------------------------------------

7.2 Response

Example JSON-encoded API response:

```
{
  "status": 0,
  "description": "Success",
  "reference_id": "6903a48b-f9f1-41be-b032-18c5e747b6a8",
  "lease_info": {
    "0388880002": "0195730424",
    "0388880003": "0125740183"
  },
  "expire": "2017-06-22 11:55:10",
  "customer_id": "1"
}
```

7.2.1 Response Parameters

Parameter name	Description	Example Value
status	Status code of this lease request. Refer to the API status code definitions section for more information.	0
description	Textual description of the returned status code.	Success
reference_id	Unique reference id generated by system for this lease request after a successful lease request.	e129f27c-5103-5c5c-844b-cdf0a15e160d
lease_info	An array containing the mapping of leased phone numbers to actual user phone numbers. This field will be empty if the request is not successful.	"0388880002": "0195730424", "0388880003": "0125740183"
expire	The expiry date and time for the granted lease after a successful lease request. Format is yyyy-mm-dd hh:mm:ss (24 hour format).	2017-06-22 11:55:10
customer_id	The unique customer account id which this lease belongs to. The unique customer account id is generated when calling the create customer API in the customer management API.	1

8 Reserve Customer Lease Numbers

HTTP Method	POST
URL	http://<host>/api/v1/customer/reserve
Operation	Reserve a specified amount of lease numbers for exclusive use by the customer only.

8.1 Request

Example API request:

```
POST /axiata/api/v1/customer/reserve HTTP/1.1
Host: localhost
Authorization: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpYXQiOiJlMDc0NjE2NzAsImZlcnVzcyI6ImVud3dy5jdGFwcmVudHMuaWY2Y29tliwiYXVkljoid3d3LmN0YXBwcy5jb20iLCJ1c2VyljoiYXVpc2FtcGxlIn0.CzeTLw3nZgmu2d5W1U0jDqKlweaV4csc-BRm-R1NCco
Content-Type: application/x-www-form-urlencoded
Cache-Control: no-cache
Postman-Token: efa1f353-3fa4-fba6-5117-04f1c7503066

customer_id=1&quantity=2
```

8.1.1 Request Parameters

Parameter name	Description	Mandatory?	Example Value
customer_id	The unique customer account id of the customer account to reserve the number for.	Y	1
quantity	Amount of lease numbers to reserve for exclusive use by the customer.	Y	10

8.2 Response

Example JSON-encoded API response:

```
{
  "status": 0,
  "description": "Success",
  "reserved_numbers": [
    "0388880002",
    "0388880003"
  ]
}
```

8.2.1 Response Parameters

Parameter name	Description	Example Value
status	Status code of this lease request. Refer to the API status code definitions section for more information.	0
description	Textual description of the returned status code.	Success
reserved_numbers	The list of numbers reserved for exclusive use by this customer (array).	"0388880002", "0388880003"

8.2.2 Request Parameters

Parameter name	Description	Mandatory?	Example Value
----------------	-------------	------------	---------------

customer_id	The unique customer account id of the customer account to topup.	Y	1
credit	Amount of credit to add to this customer account. A negative value can be specified in which the effect will be deducting the credit from the customer account.	Y	10

8.3 Response

Example JSON-encoded API response:

```
{
  "status": 0,
  "description": "Success",
  "balance": "140"
}
```

8.3.1 Response Parameters

Parameter name	Description	Example Value
status	Status code of this lease request. Refer to the API status code definitions section for more information.	0
description	Textual description of the returned status code.	Success
balance	The latest credit balance of the customer account after the top-up operation.	140

9 View Customer Details

HTTP Method	POST
URL	http://<host>/api/v1/customer/view
Operation	View a customer account details.

9.1 Request

Example API request:

```
POST /axiata/api/v1/customer/view HTTP/1.1
Host: localhost
Authorization: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpYXQiOiJlMDc0NjE2NzAsImZlcnVzIjoiIiwiaWF0IjoiY29tliwiYXVkljoid3d3LmN0YXBwcy5jb20iLCJ1c2VyljoiYXBpc2FtcGxln0.CzeTLw3nZgmu2d5W1U0jDqKlweaV4csc-BRm-R1NCco
Content-Type: application/x-www-form-urlencoded
Cache-Control: no-cache
Postman-Token: 58987673-8ecf-98b1-efe5-b18f9147db8a

customer_id=9
```

9.1.1 Request Parameters

Parameter name	Description	Mandatory?	Example Value
customer_id	The unique customer account id of the customer account to deactivate.	Y	1

9.2 Response

Example JSON-encoded API response:

```
{
  "status": 0,
  "description": "Success",
  "customer_id": "1",
  "first_name": "Nizam",
  "last_name": "Khairul",
  "account_status": "1",
  "account_credit": "40",
  "charge_method": "1",
  "enable_single_service": "1",
  "charge_block_single": "20",
  "charge_rate_single": "1",
  "enable_group_service": "1",
  "charge_block_group": "20",
  "charge_rate_group": "1",
  "max_lease_single": "0",
  "max_lease_group": "0",
  "has_reserved_number": "0",
  "date_created": " 2017-10-05 16:06:28",
  "date_suspend": "0000-00-00 00:00:00"
}
```

9.2.1 Response Parameters

Parameter name	Description	Example Value
status	Status code of this lease request. Refer to the API status code definitions section for more information.	0
description	Textual description of the returned status code.	Success
customer_id	Customer's unique account id (integer only).	1
first_name	Customer's first name.	John
last_name	Customer's last name.	Doe
account_status	Customer's account state/status. 1 = customer account is in active state. 2 = customer account is in suspended state.	1
account_credit	Customer's remaining credit balance.	40
charge_method	Charging mechanism applied on this customer account. 1 = prepaid	1

	2 = postpaid	
enable_single_service	Indicates whether this customer account can request single lease service. 0 = No 1 = Yes	1
charge_block_single	Size of billing block, in seconds, for single lease billing. Billing will be done in increments of this value.	20
charge_rate_single	Amount of credit to deduct for every call duration block of single lease.	3
enable_group_service	Indicates whether this customer account can request group lease service. 0 = No 1 = Yes	1
charge_block_group	Size of billing block, in seconds, for group lease billing. Billing will be done in increments of this value.	20
charge_rate_group	Amount of credit to deduct for every call duration block of group lease.	3
max_lease_single	Maximum concurrent single lease allowed for the customer account. 0 = unlimited.	0
max_lease_group	Maximum concurrent group lease allowed for the customer account. 0 = unlimited.	1
has_reserved_number	Indicates this customer account has reserved numbers for its exclusive use.	1
date_created	Timestamp of when this customer account was created.	2017-10-05 16:06:28
date_suspend	Timestamp of when this customer account was suspended. In the event this customer account is reactivated, the value of this field remains. Any subsequent suspension will overwrite the value of this field with the latest suspension timestamp.	0000-00-00 00:00:00

10 API Status Code Definitions Important Notes

1. The value of a credit in the system **DOES NOT** equate to a cent (\$0.01). One credit is equals to \$0.0001. All references to credits use this representation to avoid issues with floating points.
2. All credit values, whether as input to APIs or output from APIs are in integer only, no floating points are allowed.
3. For prepaid charging mechanism, there is a possibility that the customer's account will record a negative credit balance. This is due to the way the system performs prepaid billing and trade-offs between system performance and accuracy.

11 API Status Code Definitions

Status Code	Description
0	Operation successful.
1	Invalid HTTP header or HTTP header error.
2	Invalid request parameter or parameter error.
3	Invalid API requested.
4	Invalid/deprecated API version.
5	Authentication failure.
6	Authorization failure.
7	Invalid request signature.
8	Invalid phone number format.
9	Too many whitelist phone numbers.
10	Invalid reference id.
11	Insufficient resources.
12	Too many leases exist for same user.
13	Invalid access token.
14	Access token missing.
15	Invalid phone number parameter.
16	Invalid IMSI parameter.
17	Invalid MCC parameter.
18	Invalid MNC parameter.
19	Invalid reference id parameter.
20	Invalid first name parameter.
21	Invalid last name parameter.
22	Invalid account status parameter.
23	Invalid account credit parameter.
24	Invalid charge method parameter.
25	Invalid ' <i>enable single service</i> ' parameter.
26	Invalid ' <i>charge block single</i> ' parameter.
27	Invalid ' <i>charge rate single</i> ' parameter.
28	Invalid ' <i>enable group service</i> ' parameter.
29	Invalid ' <i>charge block group</i> ' parameter.
30	Invalid ' <i>charge rate group</i> ' parameter.
31	Invalid ' <i>max lease single</i> ' parameter.
32	Invalid ' <i>max lease group</i> ' parameter.
33	Invalid ' <i>customer id</i> ' parameter.
34	Invalid ' <i>credit</i> ' parameter.

35	Invalid customer account id parameter.
36	Invalid ' <i>quantity</i> ' parameter.
37	Account status does not permit the requested operation.
38	Lock is busy, try again later.
39	Reached max allowed single lease.
40	Reached max allowed group lease.
41	Invalid ' <i>expiry value</i> ' parameter.
42	Invalid ' <i>expiry unit</i> ' parameter.
99	Internal/system error.

Note: More status code would be introduced.