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LINK Mobility

Common Platform API

Keyword API

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For help, see the following link <https://linkmobility.com/support/>

The most up-to-date version of this document is available at

<http://www.linkmobility.com/developers/>

Contents

| | |
|---|----|
| Before you begin..... | 2 |
| Base URL:s..... | 2 |
| Authentication | 3 |
| Scope of this document | 3 |
| Terms and glossary | 3 |
| HTTP Methods, statuses and actions..... | 4 |
| Methods..... | 4 |
| Add a keyword data | 4 |
| Get keyword data by id..... | 5 |
| Get keyword data by refId | 5 |
| Get keyword by id..... | 5 |
| Update a keyword..... | 6 |
| List keywords by number, platformId and partnerId | 6 |
| Remove keyword | 6 |
| Get keyword availability | 7 |
| Data types | 8 |
| Keyword data | 8 |
| Error Codes | 10 |
| Appendix 1 | 10 |
| Changelog of this document..... | 11 |

Before you begin

To use this API, you will need **username**, **password**, **a number**, **platformId** and **platformPartnerId**. These will be provided to you by support. If necessary, make an opening in your firewall so that common can connect to your system. The list of addresses for common will be find in the appendix.

Base URL:s

You will get one of these URL:s assigned to you when your account is created:

```

https://wsx.sp247.net/morouter
https://n-eu.linkmobility.io/morouter
https://c-eu.linkmobility.io/morouter
https://s-eu.linkmobility.io/morouter
https://no.linkmobility.io/morouter
https://deb.linkmobility.io/morouter
    
```

Authentication

Authenticate in the HTTP request using Basic Authentication with the username and password provided by Support.

Scope of this document

This document will describe in detail the methods within the API for creating, retrieving, updating and deleting keywords towards the Common API.

Terms and glossary

Keyword

The keyword is simply a word mapped with certain conditions to be received and then forwarded to a certain getaway, depending of how its keyword data looks like. The keywords in the system has the following constrains:

- Keywords may not have overlapping time
- Keyword type is only a match type and doesn't allow different types at the same time. Example: Keyword COOKIE may not be registered as EQUALS and STARTS_WITH at the same time.
- Flag shared may not be modified. Keyword must be removed and created again to support shared.
- Shared keywords may not be created on top of an existing non-shared keyword
- Sentences that has same first word must have the same owner. This rule may be overridden by an administrator, see Override rules.
- The shortest keyword may be 3 characters. This rule may be overridden by an administrator, see Override rules.
- All UTF-8 characters are allowed, but code points in the interval 0x00-0x1F (invisible control characters) and 0xA0 (non-breaking space) will be replaced with space. Multiple spaces in a row will be reduced to one. Space before or after visible characters will be removed.

Gate

A Gate, or gateway, is an endpoint used to deliver MO, MT DLR, Address lookup and URL shortener callbacks, as well as the asynchronous callbacks from other services, that are described in their respective documents.

Number

A number in the API context, is a string that is either a Msisdn like +46123456789 or a short code. The short code's format is based on a two-letter prefix (ISO-3166-1 alpha-2) followed by a number (e.g SE-1234, DK-3456, FI-4567).

ErrorResponse

A json object that contains an error code, a description and its translation.

MoMessage

Or MO (Mobile Originated). Refers to any SMS message which is sent from a mobile phone. (The message's origin, or beginning, is at the phone).

HTTP Methods, statuses and actions

| HTTP method | No resource | Resource exist | No access to resource | Invalid Request |
|-------------|---|---|--|---|
| GET | 404 (Not found) Return: ErrorResponse | 200 (OK) Return: Correct Resource | 403 (Forbidden) 401 (Unauthorized) if the login is invalid Return: ErrorResponse | 400 (Bad Request) Return: ErrorResponse |
| POST | 201 (Created) Return http header: <i>location: {resource location}</i> Return: empty body | 409 (Conflict) Return: ErrorResponse | 403 (Forbidden) 401 (Unauthorized) if the login is invalid Return: ErrorResponse | 400 (Bad Request) Return: ErrorResponse |
| PUT | 404 (Not found) Return: ErrorResponse | 204 (OK – No content) Return: ErrorResponse | 403 (Forbidden) 401 (Unauthorized) if the login is invalid Return: ErrorResponse | 400 (Bad Request) Return: ErrorResponse |
| DELETE | 404 (Not found) Return: ErrorResponse | 204 (OK – No content) Return: ErrorResponse | 403 (Forbidden) 401 (Unauthorized) if the login is invalid Return: ErrorResponse | 400 (Bad Request) Return: ErrorResponse |

Methods

Add a keyword data

Adds a keyword data to the storage by posting a keyword object.

| | | |
|--------------------|--------------------------|--|
| HTTP Method | POST | |
| URI | /number/{number}/keyword | |
| Path params | number | The number that the keyword will be routed to. |

| | | |
|------------------------------|---|---|
| Consumable Resource | A keyword data object without the Id. | |
| Response http headers | <i>Location</i> | Contains the URI to use to retrieve the recently added keyword. |

Get keyword data by id

Retrieves a keyword by its Id.

| | | |
|--------------------|--|---|
| HTTP Method | GET | |
| URI | /number/{number}/keyword/platform/{platformId}/partner/{partnerId}/id/{id} | |
| Path params | number | The number that the keywords are routed to. |
| | platformId | The Id of the platform |
| | partnerId | The Id of the partnerId |
| | id | The Id of the Keyword |

Get keyword data by refid

Retrieves a keyword by its refid.

| | | |
|--------------------|--|---|
| HTTP Method | GET | |
| URI | /number/{number}/keyword/platform/{platformId}/partner/{partnerId}/refid/{refid} | |
| Path params | number | The number that the keywords are routed to. |
| | platformId | The Id of the platform |
| | partnerId | The Id of the partnerId |
| | refid | The refid of the Keyword |

Get keyword by id

Retrieves a keyword by its Id.

| | | |
|--------------------|--|--|
| HTTP Method | GET | |
| URI | /number/{number}/keyword/platform/{platformId}/partner/{partnerId}/id/{id} | |

| | | |
|--------------------|------------|---|
| Path params | number | The number that the keywords are routed to. |
| | platformId | The Id of the platform |
| | partnerId | The Id of the partnerId |
| | id | The Id of the Keyword |

Update a keyword

Update a keyword to the storage by putting a keyword object.

| | | |
|----------------------------|--|--|
| HTTP Method | PUT | |
| URI | /number/{number}/keyword/platform/{platformId}/partner/{partnerId}/id/{id} | |
| Path params | number | The number that the keyword will be routed to. |
| | platformId | The Id of the platform |
| | partnerId | The Id of the partnerId |
| | id | The Id of the Keyword |
| Consumable Resource | A keyword data object without the Id. | |

List keywords by number, platformId and partnerId

Gets a list of keywords that are mapped within a certain number and that has a certain platformId and a certain partnerId.

| | | |
|--------------------|--|---|
| HTTP Method | GET | |
| URI | /number/{number}/keyword/platform/{platformId}/partner/{partnerId} | |
| Path params | number | The number that the keywords are routed to. |
| | platformId | The Id of the platform |
| | partnerId | The Id of the partnerId |

Remove keyword

Deletes a keyword from the storage

| | | |
|--------------------|--|---|
| HTTP Method | DELETE | |
| URI | /number/{number}/keyword/platform/{platformId}/partner/{partnerId}/id/{id} | |
| Path params | number | The number that the keywords are routed to. |
| | platformId | The Id of the platform |
| | partnerId | The Id of the partnerId |
| | id | The Id of the Keyword |

Get keyword availability

Verify if a certain keyword is available or not.

| | | |
|---------------------------|---|--|
| HTTP Method | GET | |
| URI | /number/{number}/keyword/platform/{platformId}/partner/{partnerId}/getKeyword | |
| Path params | number | The number that the keywords are routed to. |
| | platformId | The Id of the platform |
| | partnerId | The Id of the partnerId |
| | id | The Id of the Keyword |
| Query params | keyword | The keyword string to be checked |
| | start | Time when the keyword will be active. The value should be a String that contains a date which is formatted to RFC3339. e.g. 2010-03-30T12:59:40+02:00 or2010-03-30T10:59:40Z (UTC) |
| | end | Time when the keyword will be inactive. The value should be a String that contains a date which is formatted to RFC3339. e.g. 2010-03-30T12:59:40+02:00 or2010-03-30T10:59:40Z (UTC) |
| Expected Responses | HTTP 204 (empty body) | If the keyword is available |
| | HTTP 409 (empty body) | If the keyword is not available |

Data types

Keyword data

The keyword data describes the mapping of a certain keyword.

| Parameter | Data type | Description |
|-------------|-----------------|--|
| id | String | [AUTOGENERATED] The unique id for the keyword. This is generated when the keyword is created. |
| refId | String | [OPTIONAL] Id supplied by the client. |
| type | String Constant | This should be KEYWORD_ROUTE . |
| keyword | String | [OPTIONAL*] The keyword string itself. *Only if the keywordType is DEFAULT. Mandatory otherwise. |
| gateIds | List<String> | The gateId that will receive the MoMessage. |
| keywordType | String Constant | Only the following constants can be used: EQUALS: It means that the incoming MoMessage must contain exactly the keyword string declared in this keyword data. STARTS_WITH: It means that the content of the MoMessage must begin with the keyword declared in this keyword data. FIRST_WORD: It means that the MoMessage must have exclusively the keyword as a first word in the content. DEFAULT: It means that any content within the MoMessage will be received. |
| active | Boolean | [DEFAULT VALUE: true] true if active otherwise false which indicates inactive. |
| number | NumberString | Either a shortCode or a longnumber formatted as a MSISDN |
| start | Date | [OPTIONAL] The time when the keyword should start to be active |

| | | |
|---------------------|----------|--|
| end | Date | [OPTIONAL] The time when the keyword should end to be active. |
| platformId | String | The Id of the platform. |
| platformPartnerId | String | The Id of the partner. |
| platformServiceType | String | [OPTIONAL] The type of the platform service. |
| platformServiceId | String | [OPTIONAL] The Id of the platform service. |
| shared | Boolean | [DEFAULT VALUE: false] Indicates if the keyword may be registered multiple times. |
| notifyStop | Boolean | Indicates that stop notifications should be forwarded for this keyword. |
| description | String | [OPTIONAL] Description of the keyword. |
| customParameters | KeyValue | [ADVANCED] Additional parameters may be specified if needed. Support will advise you if you need to use custom parameters. |

Example:

Json:

```

{
  "type": "KEYWORD_ROUTE",
  "id": "abc123",
  "refId": "myrefid",
  "gateIds": [
    "xd9Vhy9v"
  ],
  "platformId": "MY_PLATFORM",
  "platformPartnerId": "MY_PARTNER",
  "platformServiceType": "",
  "platformServiceId": "",
  "customParameters": {},
  "number": "SE-1234",
  "keyword": "BANAN",
  "keywordType": "EQUALS",
  "active": true,
  "start": "2015-02-17T00:00:00Z",
  "end": "2099-02-17T00:00:00Z",
  "shared": false,
  "description": "Test keyword"
}
    
```

Error Codes

| Error Code | Message |
|------------|----------------------------------|
| 104000 | UNKNOWN_ERROR |
| 104401 | KEYWORD_BUSY |
| 104402 | KEYWORD_NOT_FOUND |
| 104410 | INVALID_KEYWORD_ID |
| 104420 | INVALID_KEYWORD_DATA |
| 104421 | INVALID_KEYWORD_DATA_NUMBER |
| 104422 | INVALID_KEYWORD_DATA_PLATFORM_ID |
| 104423 | INVALID_KEYWORD_DATA_PARTNER_ID |
| 104424 | INVALID_KEYWORD_DATA_ID |
| 104425 | INVALID_KEYWORD_TYPE |
| 104426 | INVALID_START_END_DATE |
| 104427 | INVALID_KEYWORD_DATA_KEYWORD |
| 104428 | SHARED_MAY_NOT_BE_UPDATED |
| 104429 | KEYWORD_TYPE_MAY_NOT_BE_UPDATED |
| 104430 | KEYWORD_MAY_NOT_CHANGE_ON_UPDATE |
| 104431 | KEYWORD_FIRST_WORD_CONFLICT |

Appendix 1

The following hosts are currently used for outgoing messaging.

| Hostname(s) | IP address(es) |
|-------------------------|----------------|
| socks1.sp247.net | 195.84.162.34 |
| socks2.sp247.net | 194.71.165.71 |
| socks3.sp247.net | 195.84.162.16 |
| socks4.sp247.net | 194.71.165.98 |
| socks5.sp247.net | 195.84.162.3 |
| socks6.sp247.net | 194.71.165.122 |
| s1.n-eu.linkmobility.io | 213.242.87.36 |
| s2.n-eu.linkmobility.io | 213.242.87.37 |
| s3.n-eu.linkmobility.io | 213.242.87.38 |
| s4.n-eu.linkmobility.io | 213.242.87.39 |
| s5.n-eu.linkmobility.io | 213.242.87.40 |
| s6.n-eu.linkmobility.io | 213.242.87.41 |
| s1.c-eu.linkmobility.io | 62.67.62.101 |
| s2.c-eu.linkmobility.io | 62.67.62.102 |
| s3.c-eu.linkmobility.io | 62.67.62.103 |
| s4.c-eu.linkmobility.io | 62.67.62.104 |
| s5.c-eu.linkmobility.io | 62.67.62.105 |
| s6.c-eu.linkmobility.io | 62.67.62.106 |
| s1.s-eu.linkmobility.io | 217.163.95.196 |
| s2.s-eu.linkmobility.io | 217.163.95.197 |
| s3.s-eu.linkmobility.io | 217.163.95.198 |
| s4.s-eu.linkmobility.io | 217.163.95.199 |

| | |
|--------------------------------|----------------|
| s5.s-eu.linkmobility.io | 217.163.95.200 |
| s6.s-eu.linkmobility.io | 217.163.95.201 |
| s1.no.linkmobility.io | 213.242.87.68 |
| s2.no.linkmobility.io | 213.242.87.69 |
| s3.no.linkmobility.io | 213.242.87.70 |
| s4.no.linkmobility.io | 213.242.87.71 |
| s5.no.linkmobility.io | 213.242.87.72 |
| s6.no.linkmobility.io | 213.242.87.73 |
| s1.deb.linkmobility.io | 62.67.62.68 |
| s2.deb.linkmobility.io | 62.67.62.69 |
| s3.deb.linkmobility.io | 62.67.62.70 |
| s4.deb.linkmobility.io | 62.67.62.71 |
| s5.deb.linkmobility.io | 62.67.62.72 |
| s6.deb.linkmobility.io | 62.67.62.73 |

Changelog of this document

| Date | Version | Author | Changes |
|-------------|----------------|---------------|-----------------|
| 2019-12-27 | 1.0 | EP | Initial version |