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**LINK Mobility**

**Common Platform API Description**

URL Shortener

Version 1.3; Last updated April 29, 2021

For help, contact [support@linkmobility.com](mailto:support@linkmobility.com)

The most up-to-date version of this document is available at  
<https://www.linkmobility.com/developer/>

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## Before you begin

Please make sure Link Mobility Support have provided you with **Username**, **Password**, **PlatformId**, **PartnerId** and – if you want to track clicks – a **Gateld**. To provide a Gateld support will need a result receiver URL to which callback data can be delivered.

Please make an opening in your firewall if necessary so that Common can connect to your system. For a list of the addresses Common will connect from, see below.

## Scope of this document

This document will describe the Application Programming Interface (API) to create and track short URLs.

Common is a REST API. Responses will be delivered in JSON format. A basic familiarity with REST APIs and JSON is assumed.

## Capabilities of “Common” platform

Common is a high-capacity, high-stability service which will allow you to create and track activity of shortened URLs.

## IP addresses

When delivering callbacks, the requests will be coming from the following IP addresses:

Hostname	IP address
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

Please add openings in your firewalls so that these six hosts can connect to you.

## Character encoding

All communication to and from Common will be encoded using **UTF-8**.

## Available domains

We are currently offering short URLs on the following domains.

### cpn.is (CPN\_IS)

Abbreviation of “coupon”. Associated with keyword “CPN\_IS”.

Example: <http://cpn.is/aB5r62>.

### cpgn.is (CPGN\_IS)

Abbreviation of “campaign”. Associated with keyword “CPGN\_IS”.

Example: <http://cpgn.is/y7maQ1>.

## Implementations

There are three types of short URLs with different properties.

### Sequential (SEQ)

- Variable (increasing) key length.
- Default lifetime: 30 days
- Maximum lifetime: 1000 days

### Dynamic (DYN)

- Random key
- Key will always be 7 chars long
- Default lifetime: 30 days
- Maximum lifetime: 365 days

### Ranged dynamic (RNG)

- Partner specific ranges, requires registration (see HTTP Methods...)
- Allows default URL to redirect to for unused keys within range (custom 404 page)
- Key randomly selected from range
- Key will always be 8 chars long
- Default lifetime: 30 days
- Maximum lifetime: 365 days
- Requires specific rights

## Data types

### Short URL request data

This is the data needed to create a short URL.

Parameter	Type	Description
<b>url</b>	URLType	URL to shorten
<b>lifetime</b>	Integer (Optional)	Short URL lifetime in days (see "Implementations" for default and maximum allowed value)
<b>callbackGateIds</b>	List<String> (Optional)	Gates to POST link click data to
<b>customParameters</b>	KeyValue (Optional)	Parameter map that will be passed to gate along with click statistics/data

### URL Data

Data associated with an existing short URL.

Parameter	Type	Description
<b>longUrl</b>	URL	Redirect URL
<b>createdAt</b>	Long	Created timestamp
<b>gateIds</b>	List<String>	Gates used for link click data
<b>customParameters</b>	KeyValue	Parameter map

### Range request data

Fallback parameters for unused keys in a range registered by you.

Parameter	Type	Description
<b>defaultUrl</b>	URL (Optional)	URL to redirect to for unused IDs in range
<b>callbackGateIds</b>	List<String> (Optional)	Gates to POST link click data to
<b>customParameters</b>	KeyValue (Optional)	Parameter map that will be passed to gate along with click statistics/data

### URL Shortener callback data

Forwarded to you when a user has clicked a shortened URL.

Name	Type	Description
<b>shortUrl</b>	URL	The shortened URL
<b>longUrl</b>	URL	The original URL
<b>time</b>	Date	Time of click
<b>userAgent</b>	String	OS and browser data
<b>language</b>	String	User language
<b>referrer</b>	String	Where the request originated from
<b>customParameters</b>	KeyValue	From Short URL creation

### Error response

Object describing an error.

Parameter	Data type	Description
<b>status</b>	Integer	See Status codes.
<b>description</b>	String	Textual description of the problem.
<b>translatedDescription</b>	String	Textual description of the problem based on "Accept-Language".

## API basics

### Base URL

**https://wsx.sp247.net/urlshortener**

### Basic authentication

For all requests; set the header “Authorization” to “Basic [encoded]” where [encoded] is a base 64 encoded string of your username and password separated by a colon.

### HTTP methods, statuses and actions

Method	Resource found	No resource	Invalid request	Invalid login	No access
<b>GET</b>	<b>200 OK</b> Returns resource	<b>404 Not found</b> Returns Error Response	<b>400 Bad request</b> Returns Error Response	<b>401 Un-authorized</b> Returns Error Response	<b>403 Forbidden</b> Returns Error Response
<b>POST</b>	<b>409 Conflict</b> Returns Error Response	<b>201 Created</b> Returns a “Location” header	<b>400 Bad Request</b> Returns Error Response	<b>401 Un-authorized</b> Returns Error Response	<b>403 Forbidden</b> Returns Error Response
<b>PUT</b>	<b>200 OK</b>	<b>404 Not found</b> Returns Error Response	<b>400 Bad Request</b> Returns Error Response	<b>401 Un-authorized</b> Returns Error Response	<b>403 Forbidden</b> Returns Error Response
<b>DELETE</b>	<b>405 Method not allowed</b>	<b>204 No content</b>	<b>400 Bad Request</b> Returns Error Response	<b>401 Un-authorized</b> Returns Error Response	<b>403 Forbidden</b> Returns Error Response

## Functions

### Create short URL (SEQ and DYN)

POST /platform/[platformId]/partner/[partnerId]/type/[implId]

URI Parameter	Data type	Description
<b>platformId</b>	String	Provided by LINK Mobility.
<b>partnerId</b>	String	Provided by LINK Mobility.
<b>implId</b>	String	A string describing implementation and domain. Can be CPN_IS_SEQ, CPN_IS_DYN, CPGN_IS_SEQ or CPGN_IS_DYN .

Response will contain header:

Location: [domain]/[key]

### Create short URL (RNG)

POST /platform/[platformId]/partner/[partnerId]/type/[implId]  
/range/[rangeId]

URI Parameter	Data type	Description
<b>platformId</b>	String	Provided by LINK Mobility.
<b>partnerId</b>	String	Provided by LINK Mobility.
<b>implId</b>	String	A string describing implementation and domain. Can be CPN_IS_RNG or CPGN_IS_RNG.
<b>rangeId</b>	Integer	Range ID acquired when range was claimed.

Response will contain header:

Location: [domain]/[key]

### Claim range

POST a Range request data object to reserve a range.

POST /platform/[platformId]/partner/[partnerId]/type/[implId]/claim

URI Parameter	Data type	Description
<b>platformId</b>	String	Provided by Link Mobility.
<b>partnerId</b>	String	Provided by Link Mobility.
<b>implId</b>	String	A string describing implementation and domain. Can be CPN_IS_RNG or CPGN_IS_RNG.

Response will contain header:

Location: /platform/[platformId]/partner/[partnerId]/type/[implId]  
/range/[rangeId]

### Update range

PUT a Range request data object to update a range.

PUT /platform/[platformId]/partner/[partnerId]/type/[implId]  
/range/[rangeId]

URI Parameter	Data type	Description
<b>platformId</b>	String	Provided by Link Mobility.
<b>partnerId</b>	String	Provided by Link Mobility.
<b>implId</b>	String	A string describing implementation and domain. Can be CPN_IS_RNG or CPGN_IS_RNG.



URI Parameter	Data type	Description
<b>rangeId</b>	Integer	Range ID acquired when range was claimed.

#### Get range

GET a Range request data object.

GET /platform/[platformId]/partner/[partnerId]/type/[implId]  
/range/[rangeId]

URI Parameter	Data type	Description
<b>platformId</b>	String	Provided by Link Mobility.
<b>partnerId</b>	String	Provided by Link Mobility.
<b>implId</b>	String	A string describing implementation and domain. Can be CPN_IS_RNG or CPGN_IS_RNG.
<b>rangeId</b>	Integer	Range ID acquired when range was claimed.

#### Delete range

DELETE a Range request data object.

DELETE /platform/[platformId]/partner/[partnerId]/type/[implId]  
/range/[rangeId]

URI Parameter	Data type	Description
<b>platformId</b>	String	Provided by Link Mobility.
<b>partnerId</b>	String	Provided by Link Mobility.
<b>implId</b>	String	A string describing implementation and domain. Can be CPN_IS_RNG or CPGN_IS_RNG.
<b>rangeId</b>	Integer	Range ID acquired when range was claimed.

## Result codes

<b>Result code</b>	<b>Description</b>
<b>107000</b>	Unknown error
<b>107001</b>	Service not initiated
<b>107002</b>	Configuration error
<b>107050</b>	Storage error
<b>107100</b>	Invalid authentication
<b>107101</b>	Access denied
<b>107102</b>	Illegal range
<b>107200</b>	Invalid platform ID
<b>107201</b>	Invalid partner ID
<b>107202</b>	Invalid implementation
<b>107203</b>	Type not implemented
<b>107204</b>	Invalid URL
<b>107205</b>	Invalid lifetime
<b>107206</b>	Invalid range ID
<b>107207</b>	Invalid gate
<b>107208</b>	Short URL not found
<b>107209</b>	Implementation already exists
<b>107210</b>	Implementation not found
<b>107211</b>	Invalid URL key
<b>107212</b>	Invalid version
<b>107300</b>	Out of keys
<b>107500</b>	Success

## Examples

### Create a short URL

Run the following command, changing placeholder values to the parameters provided by support.

```
curl -XPOST -i -u <yourUsername>:<yourPassword> \  
-H "Content-Type:application/json" \  
-d "{\"url\":\"http://www.linkmobility.com\", \"lifetime\":10, \  
\"callbackGateIds\":[\"<yourGate1>\", \"<yourGate2>\"]}" \  
http://wsx.sp247.net/urlshortener/platform/<yourPlatformId>/partner/  
<yourPartnerId>/type/CPN_IS_SEQ
```

If your user has the proper rights, the response will look something like this:

```
HTTP/1.1 201 Created  
Date: Mon, 21 Dec 2015 13:53:30 GMT  
Location: http://cpn.is/6Ue  
Content-Length: 0  
Content-Type: text/plain
```

The URL <http://cpn.is/6Ue> now redirects to <http://www.linkmobility.com>.

### Claim a range

Run the following command, changing placeholder values to your own.

```
curl -XPOST -i -u <yourUsername>:<yourPassword> \  
-H "Content-Type:application/json" \  
-d "{\"defaultUrl\":\"http://www.linkmobility.com\", \  
\"callbackGateIds\": [\"xd9Vhy9v\", \"baWInE88\"]}" \  
http://wsx.sp247.net/urlshortener/platform/<yourPlatform>/partner/  
<yourPartner>/type/CPN_IS_RNG/claim
```

This will generate a response similar to this:

```
HTTP/1.1 201 Created  
Date: Mon, 21 Dec 2015 14:11:31 GMT  
Location: http://wsx.sp247.net/urlshortener/platform/SMSC/partner/1  
/type/CPN_IS_RNG/range/20  
Content-Length: 0  
Content-Type: text/plain
```

Range ID 20 is now reserved for your use. Any short URLs in your range that are not assigned to a specific URL will be directed to the default address provided above.

### Create a short URL within a range

Run the following command, changing placeholder values to the parameters provided by support:

```
curl -XPOST -i -u <yourUsername>:<yourPassword> \  
-H "Content-Type:application/json" \  
-d "{\"url\":\"http://www.google.com\", \"lifetime\":10, \  
\"callbackGateIds\":[\"<yourGate1>\", \"<yourGate2>\"]}" \  
http://wsx.sp247.net/urlshortener/platform/<yourPlatformId>/partner/  
<yourPartnerId>/type/CPN_IS_RNG/rangeId/20
```

If your user has the proper rights, the response will look something like this:

```
HTTP/1.1 201 Created  
Date: Mon, 21 Dec 2015 13:53:30 GMT  
Location: http://cpn.is/161U1eeR  
Content-Length: 0  
Content-Type: text/plain
```

The URL <http://cpn.is/161U1eeR> now redirects to <http://www.google.com> for 10 days. When that time has passed, the short URL will redirect to <http://www.linkmobility.com> instead.

## Appendix 1

### Supported TLS versions

From 2020-11-15 TLS 1.2 or higher will be required for all TLS connections.

Support for TLS 1.0 and 1.1 will be discontinued. Versions 1.0 and 1.1 of TLS are older protocols that have been deprecated and are considered security risks in the Internet community.

LINK strongly recommends using TLS if unencrypted connections are being used today. HTTP is deprecated as of 2020-09-01 by LINK, and will be removed in the future. Date for HTTP removal is not yet decided.

### Changelog of this document

<b>Date</b>	<b>Version</b>	<b>Author</b>	<b>Changes</b>
<b>2015-12-21</b>	1.0	JA	Initial version
<b>2020-08-28</b>	1.1	HZ	Added info regarding supported TLS
<b>2021-02-19</b>	1.2	TL	The URL for Developers, From HTTP to HTTPS
<b>2021-04-29</b>	1.3	TL	Changed to new homepage URL