

Logo API

Overview

In a cross-operator API usage situation the Developer Application can not embed a static branding assuming any one of the possible Serving Operators. Because the Serving Operator would vary based on the subscriber who is using the Application. To solve this problem OneAPI Exchange provides a Logo API to dynamically determine applicable branding elements (logos) according to the identified Serving Operator mobile network from the OneAPI discovery process. The Logo API will allow developers to have an easy method of obtaining Serving Operator logos which the Developers can then include within Application screens featuring contextual API related actions such as “login with” or “pay with” functions.

Logo API improves the overall user experience in multiple ways:

- Users can easily see which Operator they are interacting with. Users feel confident when they are interacting with a known brand.
- Users can view logos specific to API usage context e.g. Login with, Pay with etc. This intuitiveness increases the ease of use.
- Developers do not need to write logic to use specific static logos or to fall back on other logos when operator changes or is not identified. All that is embedded in the Logo API.
- Multiple logo options, when available, are provided for developers to choose from, based on their Application context. e.g. Logos of various size, aspect ratio, background color, language etc. can be made available using the Logo API.

Note :

- The Logo API is required only to return Image URIs, the image data itself is not included inline in the Logo API response. This way the logos can be served from a Operator Controlled environment and can be updated without depending on the Exchange as long as the URIs are unchanged.
- The Application is responsible for parsing, fetching, storing (and if required caching) the Logo API response.
- If the app has performed discovery before then app should use mcc_mnc value obtained from discovery API into the Logo API to obtain the appropriate logos
- The Operator Discovery logic used in Logo API is same as the discovery API except that the Logo API does not allow for interactive selection of Serving Operator by the Subscriber. That is why unlike Discovery, Logo API does not require any redirect_uri parameter, because there is no redirection needed in case of Logo API. In absence of an identified Serving Operator Logo API will return exchange default logos, if available.

Logo API Details

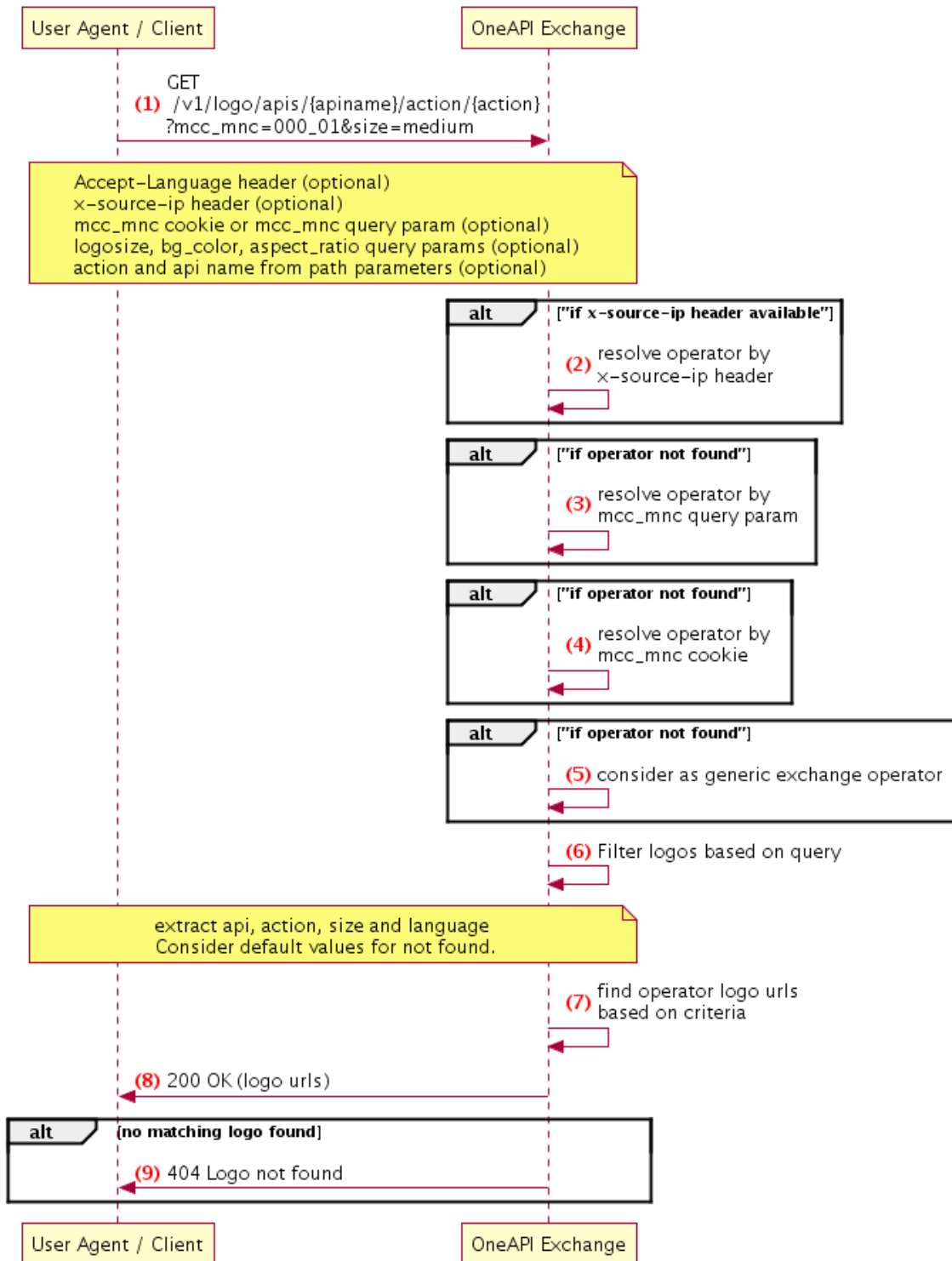
First of all the Logo API attempts to determine the Serving Operator using the following logic (similar to the Discovery API):

1. IP address of the client. This should be sent as x-source-ip in http request header. If not, then source IP is used to match the operator IP ranges.
2. Subscribers mcc and mnc present in query param (mcc_mnc format)
3. mcc_mnc available as part of cookie (mcc_mnc)

When operator is identified, further filter is applied to narrow down the logo to be returned based on various filter criteria in the request. Please refer to the Query Parameter list in the table below for details.

Logo API Sequence

Logo API Sequence Diagram



Interface Details

Logo API Request

Request Details

| | |
|------|-----|
| Verb | GET |
|------|-----|

| Path | <p><code>/v1/logo/apis/{apiname}/action/{action}</code></p> <p>apiname - (optional) path variable, If present, system will return the logo details of the particular API only. apiname should be one of the supported apis.</p> <p>action - (optional) path variable, If present, system will return the logo details of the particular action of api. action should be corresponding for api and should be valid.</p> | | | | | | | | | | | | | | | | | |
|-----------------|--|---|--|------|---------------|----------|------------|---|--|--------|-----------------------------|--|-----------------|--|--|--------|-----------------|---|
| Headers | <table><tr><th>Name</th><th>Example Value</th><th>Comments</th></tr><tr><td>User-Agent</td><td>Mozilla/5.0 (Linux; U; Android 1.1; en-gb; dream)</td><td>Optional : Note - The value is just an example</td></tr><tr><td>Accept</td><td>text/html, application/json</td><td>Optional : Note - The value is just an example</td></tr><tr><td>Accept-Language</td><td>en-us,de-at;q=0.8,en;q=0.5,ar-qa;q=0.3</td><td>Optional : Note - The value is just an example</td></tr><tr><td>Cookie</td><td>mcc_mnc=310_150</td><td>Mobile Country code Mobile Network code Optional If present then discovery happens based on these values. Note - The value is just an example</td></tr></table> | | | Name | Example Value | Comments | User-Agent | Mozilla/5.0 (Linux; U; Android 1.1; en-gb; dream) | Optional : Note - The value is just an example | Accept | text/html, application/json | Optional : Note - The value is just an example | Accept-Language | en-us,de-at;q=0.8,en;q=0.5,ar-qa;q=0.3 | Optional : Note - The value is just an example | Cookie | mcc_mnc=310_150 | Mobile Country code Mobile Network code Optional If present then discovery happens based on these values. Note - The value is just an example |
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| User-Agent | Mozilla/5.0 (Linux; U; Android 1.1; en-gb; dream) | Optional : Note - The value is just an example | | | | | | | | | | | | | | | | |
| Accept | text/html, application/json | Optional : Note - The value is just an example | | | | | | | | | | | | | | | | |
| Accept-Language | en-us,de-at;q=0.8,en;q=0.5,ar-qa;q=0.3 | Optional : Note - The value is just an example | | | | | | | | | | | | | | | | |
| Cookie | mcc_mnc=310_150 | Mobile Country code Mobile Network code Optional If present then discovery happens based on these values. Note - The value is just an example | | | | | | | | | | | | | | | | |

Query Parameters

| Name | Example Value | Description | Comments |
|---------|---------------|-------------|---|
| mcc_mnc | 310_150 | | Mobile Country code Mobile Network code Optional If present then discovery happens based on these values. Note - The value is just an example |

There are three more query parameters, logsize, bg_color, aspect_ratio that are used for filtering the logos. Please refer to the table below on Logo Selection Logic to know more about these optional parameters.

Logo Selection Logic

| Logo filter parameter | How it is specified | Values | API behaviour if parameter specified in the request | API behaviour if parameter is not specified in the request |
|-----------------------|--|---------------------------------|--|---|
| Operator Name | mcc_mnc in the params or cookie, or trusted IP in x-source-ip header | Any of the valid mcc_mnc values | When operator is identified only the specific Operator logos are returned matching the search criteria. If the Operator logos do not exist then Exchange default logos matching other search criteria are returned | If no operator is identified Exchange default logos are returned |
| API Name | v1/logos/apis/{apiname} | operatorid or payment | only the specific API logos are returned | Both operator id and payment API logos are returned. At present those are two types of logo loaded. |
| API Action | v1/logos/apis/{apiname}/action/{action} | depends on the API | Specific API and Action is matched. Presently all logo actions are set to "default" | Logo for 'default' action is returned |
| Size | "logosize" query parameter | small, medium, large | Specific size logos are returned. If not found then exchange default for that size, i.e., medium, is returned | default size logo, i.e., medium logos are returned |
| Back Ground Color | "bg_color" query parameter | normal, black, reversed | Logos with specified background color are returned. If not found then no logo is returned | Any available background type logos are returned |
| Aspect Ratio | "aspect_ratio" query parameter | landscape, square | Logos with specified aspect ratios are returned. If not found then no logo is returned | Any available aspect ratio logos are returned |
| Language | Accept-Language header | en | Logos with specified language are returned. If not found then en is used as default | When no language is specified en is used as default. |

Logo API Response

The Logo Api response will be logo url in json array format. The following details will be available in the response

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|--|--|
| Success code | HTTP 200 OK |
| Exceptions | HTTP 404 Not Found |
| Example Request 1 | <pre>> GET /v1/logo/apis/operatorid?logosize=large&mcc_mnc=413_02 HTTP/1.1 > User-Agent: curl/7.30.0 > Host: integration-axiatagroup.apiexchange.org> Accept: application/json</pre> |
| Example Response 1: Operator logo is not found hence the response falls back on Exchange default Logos. Also the response is filtered by only large logos. | <pre>< HTTP/1.1 200 OK< Date: Tue, 01 Jul 2014 04:38:37 GMT < Access-Control-Allow-Origin: * < Access-Control-Allow-Headers: origin, x-requested-with, x-source-ip, Accept, Authorization, User-Agent, Host, Accept-Language, Location, Referer < Access-Control-Max-Age: 600 < Access-Control-Allow-Methods: GET, POST < Access-Control-Allow-Credentials: true < Cache-Control: max-age=5184000 < Content-Type: application/json < Content-Length: 1935 < Set-Cookie: mcc_mnc=413_02, Path=/, Domain=integration-axiatagroup.apiexchange.org < [{ "operatorId": "exchange", "apiName": "operatorid", "language": "en", "size": "large", "height": "346px", "width": "768px", "action": "default", "url": " https://integration-api.apiexchange.org:443/v1/logostorage/images/english/mobcon_rev_rgb_768.png "bgColourRange": "#ffffff,#000000", "bgColor": "reversed", "aspectRatio": "landscape" }, { "operatorId": "exchange", "apiName": "operatorid", "language": "en", "size": "large", "height": "384px", "width": "384px", "action": "default", "url": " https://integration-api.apiexchange.org:443/v1/logostorage/images/english/mobcon_butt_rev_rgb_38 "bgColourRange": "#ffffff,#000000", "bgColor": "reversed", "aspectRatio": "square" }, { "operatorId": "exchange", "apiName": "operatorid", "language": "en", "size": "large", "height": "384px", "width": "384px", "action": "default", "url": " https://integration-api.apiexchange.org:443/v1/logostorage/images/english/mobcon_butt_black_rgb_ "bgColourRange": "#ffffff,#000000", "bgColor": "black", "aspectRatio": "square" }, { "operatorId": "exchange", "apiName": "operatorid", "language": "en", "size": "large",</pre> |

```
    "height": "346px",
    "width": "768px",
    "action": "default",
    "url": "
https://integration-api.apiexchange.org:443/v1/logostorage/images/english/mobcon\_mono\_rgb\_768.png
    "bgColourRange": "#ffffff,#000000",
    "bgColor": "black",
    "aspectRatio": "landscape"
  },
  {
    "operatorId": "exchange",
    "apiName": "operatorid",
    "language": "en",
    "size": "large",
    "height": "384px",
    "width": "384px",
    "action": "default",
    "url": "
https://integration-api.apiexchange.org:443/v1/logostorage/images/english/mobcon\_but\_5275\_rgb\_384.png
    "bgColourRange": "#ffffff,#000000",
    "bgColor": "normal",
    "aspectRatio": "square"
  },
  {
    "operatorId": "exchange",
    "apiName": "operatorid",
    "language": "en",
    "size": "large",
    "height": "346px",
    "width": "768px",
    "action": "default",
    "url": "
https://integration-api.apiexchange.org:443/v1/logostorage/images/english/mobcon\_pms5275\_rgb\_768.png
    "bgColourRange": "#ffffff,#000000",
    "bgColor": "normal",
```

| | |
|---|--|
| | <pre> "aspectRatio": "landscape" }] </pre> |
| Example Request 2: | <pre> > GET /v1/logo/apis/operatorid?logosize=large&mcc_mnc=262_06 HTTP/1.1 > User-Agent: curl/7.30.0> Host: integration-axiatagroup.apiexchange.org > Accept: application/json </pre> |
| Example Response 2: Operator logo is found hence the response only returns the matching operator logo. Also the response is filtered by only large logos. | <pre> < HTTP/1.1 200 OK < Date: Tue, 01 Jul 2014 04:41:30 GMT < Access-Control-Allow-Origin: * < Access-Control-Allow-Headers: origin, x-requested-with, x-source-ip, Accept, Authorization, User-Agent, Host, Accept-Language, Location, Referer < Access-Control-Max-Age: 600 < Access-Control-Allow-Methods: GET, POST < Access-Control-Allow-Credentials: true < Cache-Control: max-age=5184000 < Content-Type: application/json < Content-Length: 344 < Set-Cookie: mcc_mnc=262_06, Path=/, Domain=integration-axiatagroup.apiexchange.org < [{ "operatorId": "dtde", "apiName": "operatorid", "language": "en", "size": "large", "height": "140px", "width": "640px", "action": "default", "url": " https://integration-dt.apiexchange.org:443/v1/logostorage/images/english/connect_with_tmobile_64 ", "bgColourRange": "#ffffff,#000000", "bgColor": "normal", "aspectRatio": "landscape" }] </pre> |

Response codes and exceptions

HTTP response codes are used to indicate:

- 200** – OK. Used in response to a successful GET request
- 400** – Bad request; check the error message and correct the request syntax.
- 404** – Not found: mistake in the host or path of the service URI.
- 503** – Server busy and service unavailable. Please retry the request.

Sample Error Response

```
< HTTP/1.1 404 Not Found
< Date: Tue, 01 Jul 2014 04:49:12 GMT
< Content-Type: application/json
< Access-Control-Allow-Origin: *
< Access-Control-Allow-Headers: origin, x-requested-with, x-source-ip, Accept, Authorization, User-Agent,
Host, Accept-Language, Location, Referer
< Access-Control-Max-Age: 600
< Access-Control-Allow-Methods: GET, POST
< Access-Control-Allow-Credentials: true
< Content-Length: 69
<
  { "error":"not_found" , "error_description":"Logo Not found" }
```