

IQ AGENT MIDDLEWARE API DOCUMENTATION

Introduction

IQ Agent Middleware Api documentation

| Doc version | Date | Description |
|-------------|------------|---|
| v1.0 | 27/09/2019 | First documentation of available api methods |
| v1.1 | 02/02/2020 | Updated section 2 - Accounts |
| v1.2 | 15/12/2020 | Updated Promocode lookup api endpoint url to v2 and added new sample response. |
| v1.3 | 10/06/2022 | Added description for RoomList and Booking endpoints. |
| v1.4 | 28/04/2023 | Added implementation diagram |
| v1.5 | 21/06/2023 | Added DoubleOccupancy and Accessible flags properties to RoomAvailability endpoint response object. |

Section 1 API Endpoints

API Base url – UAT : <https://fn-bellhop-agent-uat.azurewebsites.net/>

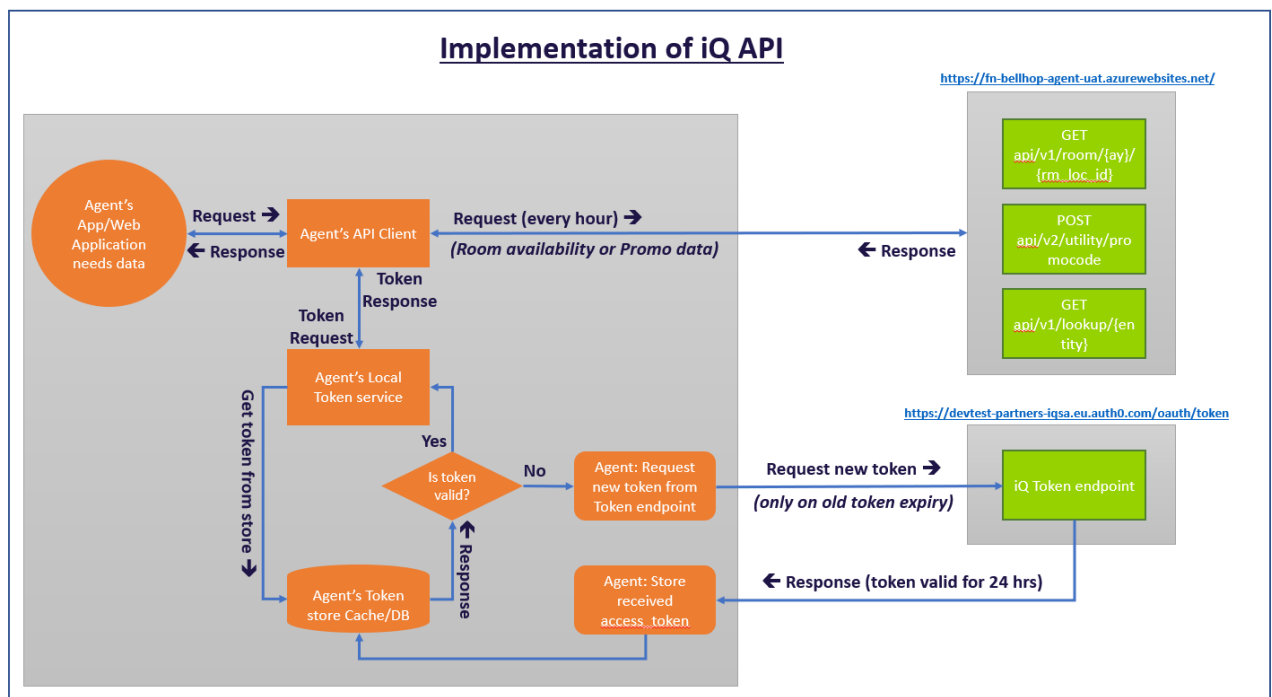
Response type: Json

Response codes:

- 200 – OK (with data)
- 400 – Bad request/Invalid request
- 401 – Unauthorised access
- 404 – Resource not found
- 500 – Internal server error

Conventions:

- Compound-named input field format: **snake_case** e.g. **rm_loc_id**
- Compound-named output field format: **camelCase** e.g. **roomName**
- All input field letter case: **lowercase** e.g. **gender, start_date**
- Single word output field letter case: **lowercase** e.g. **gender**
- Acronym word in a camelCase field name: **Title case** e.g. **roomId, roomTypeId, sugarCrmId**



1.1 Room Availability

Room Availability API method

Gets a list of room availability data for defined route parameters.

Valid format for {ay} is academic year e.g.: **2023-24**

Valid value for {rm_loc_id} is roomLocationId from lookup value field in **roomlocation** lookup.

| API | Query/Route Parameters Name | Value Type (M) – Mandatory (O) - Optional |
|-------------------------------------|-----------------------------|---|
| GET api/v1/room/{ay}/{rm_loc_id} | ay rm_loc_id | String (M) String (M) |

| Sample Request - Get Room Availability at iQ Shoreditch | |
|--|---|
| Method | GET |
| URL | https://fn-bellhop-agent-uat.azurewebsites.net/api/v1/room/ 2023-24 / 13 |
| Headers: | |
| authorization | Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImtpZCI6Ikp9FUXRGY0Hg7O23IEAsQCeTUjP_47Zcyp= |
| Content-Type | Application/json |
| Route parameter | For this example: {ay} – Academic year (2023-24). {rm_loc_id} – RoomLocationId (13 - iQ Shoreditch) |
| Sample Response – Get Room availability at iQ Shoreditch | |
| 200 | [{ "TermID": "3857", "TermDescription": "*2023-24 16wks Starting 10/09/2023 Sem 1", "TermSessionID": "3437", "ContractDateStart": "10/09/2023", "ContractDateEnd": "31/12/2024", "RoomLocationAreaID": "50", "RoomLocationAreaDescription": "iQ - London Shoreditch", "RoomLocationID": "13", "RoomLocationDescription": "Shoreditch", "RoomTypeID": "171", "RoomTypeDescription": "Bronze Studio", "Amount": "428.00", "NumberOfRooms": "0", "Link": "", "DepositAmount": "250.00", "weeks": "16", "AllowWebBooking": "True", "DoubleOccupancy": "False", "Accessible": "False" }, { "TermID": "3857", "TermDescription": "*2023-24 16wks Starting 10/09/2023 Sem 1", "TermSessionID": "3437", "ContractDateStart": "10/09/2023", |

| | |
|--|--|
| | <pre> "ContractDateEnd": "31/12/2024", "RoomLocationAreaID": "50", "RoomLocationAreaDescription": "iQ - London Shoreditch", "RoomLocationID": "13", "RoomLocationDescription": "Shoreditch", "RoomTypeID": "200", "RoomTypeDescription": "Bronze Studio Plus", "Amount": "449.00", "NumberOfRooms": "6", "Link": "", "DepositAmount": "250.00", "weeks": "16", "AllowWebBooking": "True", "DoubleOccupancy": " True", "Accessible": "True" }, { "TermID": "3857", "TermDescription": "*2023-24 16wks Starting 10/09/2023 Sem 1", "TermSessionID": "3437", "ContractDateStart": "10/09/2023", "ContractDateEnd": "31/12/2024", "RoomLocationAreaID": "50", "RoomLocationAreaDescription": "iQ - London Shoreditch", "RoomLocationID": "13", "RoomLocationDescription": "Shoreditch", "RoomTypeID": "172", "RoomTypeDescription": "Silver Studio", "Amount": "447.00", "NumberOfRooms": "3", "Link": "", "DepositAmount": "250.00", "weeks": "16", "AllowWebBooking": "True", "DoubleOccupancy": " True", "Accessible": "False" }] </pre> |
|--|--|

Note:

“allowWebBooking” would be “False” for Twin rooms & rooms requiring gender matching.

1.2 Promo Code Lookup

Promo Code Lookup API method.

Gets a list of promotion codes by academic year, room location Id (iQ property), and room type.

Valid format for {ay} is academic year e.g.: 2023-24

Valid value for {rm_loc_id} is roomLocationId from lookup value field in **roomlocation** lookup.

Valid value for {rm_type_id} is roomTypeId from lookup value field in **roomtype** lookup.

| API | Query/Route Parameters Name | Value Type (M) – Mandatory (O) - Optional |
|----------------------------------|-------------------------------|---|
| POST api/v2/utility/promocode | ay rm_loc_id rm_type_id | String(M) String(M) String(M) |

| Sample Request - Get Promo Codes | |
|--|--|
| Method | POST |
| URL | https://fn-bellhop-agent-uat.azurewebsites.net/api/v2/utility/promocode |
| Headers: | |
| authorization | Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImtpZCI6Ikp9FUXRGY0Hg7O23DIEAsQCeTUjP_47Zcyp= |
| Content-Type | Application/json |
| Body: | |
| <pre>{ "rm_loc_id": "13", "rm_type_id": "172", "ay": "2023-24" }</pre> | |
| Sample Response – Get Promo Codes | |
| 200 | <pre>[{ "termId": "3867", "term": "*2023-24 43wks Starting 10/09/2023", "roomLocationId": "13", "roomLocation": "Shoreditch", "roomTypeId": "172", "roomType": "Silver Studio", "promotionType": "New Booker", "dealDescription": "2023-24 Offers Available", "promotionName": "£500 Cashback", "promotionCode": "SHOR500-260122", "promotionDescription": "Book this room for the 2023/24 academic year using code SHOR500-260122 to receive £500 cashback. Minimum of 34-week tenancy contracts. T&Cs apply.", "promotionValue": "500.00", "minContractLength": "34", "maxContractLength": "52", "promotionStartDate": "26/01/2023", "promotionEndDate": "" }]</pre> |

| | |
|--|---|
| | <pre> "tacLink": "https://www.iqstudentaccommodation.com/202324-new-customer-cashback-terms- and-conditions" }, { "termId": "3860", "term": "**2023-24 34wks Starting 07/01/2023 Sem 2", "roomLocationId": "13", "roomLocation": "Shoreditch", "roomType": "Silver Studio", "promotionType": "New Booker", "dealDescription": "2023-24 Offers Available", "promotionName": " £500 Cashback", "promotionCode": "SHOR500-260122", "promotionDescription": "Book this room for the 2023/24 academic year using code SHOR500- 260122 to receive £500 cashback. Minimum of 34-week tenancy contracts. T&Cs apply.", "promotionValue": "500.00", "minContractLength": "34", "maxContractLength": "52", "promotionStartDate": "26/01/2023", "promotionEndDate": "", "tacLink": "https://www.iqstudentaccommodation.com/202324-new-customer-cashback-terms- and-conditions" }, { "termId": "3881", "term": "**2023-24 51wks Starting 10/09/2023", "roomLocationId": "13", "roomLocation": "Shoreditch", "roomType": "Silver Studio", "promotionType": "New Booker", "dealDescription": "2023-24 Offers Available", "promotionName": " £500 Cashback", "promotionCode": "SHOR500-260122", "promotionDescription": "Book this room for the 2023/24 academic year using code SHOR500- 260122 to receive £500 cashback. Minimum of 34-week tenancy contracts. T&Cs apply.", "promotionValue": "500.00", "minContractLength": "34", "maxContractLength": "52", "promotionStartDate": "26/01/2023", "promotionEndDate": "", "tacLink": "https://www.iqstudentaccommodation.com/202324-new-customer-cashback-terms- and-conditions" }] </pre> |
|--|---|

1.3 Lookup

Lookup API methods

Gets a list of look up data for defined {entity}.

Use this endpoint to look up values for roomLocationId [rm_loc_id / room_loc_id], and roomTypeid [rm_type_id / room_type_id] needed for the promotion code and the room list endpoints.

| Applicable Field name | Lookup {Entity} valid value |
|---------------------------|-----------------------------|
| rm_loc_id / room_loc_id | roomlocation |
| rm_type_id / room_type_id | roomtype |

| API | Query/Route Parameters Name | Value Type (M) – Mandatory (O) - Optional |
|-------------------------------|-------------------------------------|---|
| GET api/v1/lookup/{entity} | Entity – the required lookup entity | String (M) |

| Sample Request – Lookup for roomlocation | |
|---|---|
| Method | GET |
| URL | https://fn-bellhop-agent-uat.azurewebsites.net/api/v1/lookup/ roomlocation |
| Headers: | |
| authorization | Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImtpZCI6Ij9FUXRGY0Hg7O23IEAsQCeTUjP_47Zcyp= |
| Content-Type | Application/json |
| RouteParameter | {entity} value (see table above) |
| Sample Response – Lookup for roomlocation (abridged list) | |
| 200 | [{ "Lookup_Value": "97", "Lookup_Text": "Elliott House" }, { "Lookup_Value": "10", "Lookup_Text": "Exchange" }, { "Lookup_Value": "53", "Lookup_Text": "Fenton House" }, { "Lookup_Value": "54", "Lookup_Text": "Fiveways House" },] |

Section 2: Accounts

Account Name: *[As provided in authentication details.]*

Description: Use to read publicly-served data e.g. room availability etc.

Client ID: *[As already provided]*

Client Secret: *****

Token Endpoint: <https://devtest-partners-iqsa.eu.auth0.com/oauth/token> [UAT]

IMPORTANT!

Token received must be stored on the client side and re-used for the lifetime of the token. (i.e. add the `expire_in` value [usually 86,400 seconds] to the current date and store as the expiration datetime for the token. New token should only be requested after the expiration datetime.

To avoid rate limit errors, new token **must not** be generated for every request.


```
CURLOPT_CUSTOMREQUEST => "GET",
CURLOPT_HTTPHEADER => array(
    "authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImtpZCI6..."
),
));

$response = curl_exec($curl);
$error = curl_error($curl);

curl_close($curl);

if ($error) {
    echo "cURL Error #:" . $error;
} else {
    echo $response;
}
```

3.2 JQuery Example

| | |
|---|--|
| Sample Authorization Request | <pre> var settings = { "async": true, "crossDomain": true, "url": "https://devtest-partners-iqsa.eu.auth0.com/oauth/token", "method": "POST", "headers": { "content-type": "application/json" }, "data": "{\\"client_id\\":\\"\\":\\"[As already provided]\\",\\"client_secret\\":\\"h*****\\",\\"audie nce\\":\\"https://agent-bellhop-iq-uat/api \\",\\"grant_type\\":\\"client_credentials\\"}" } \$.ajax(settings).done(function (response) { console.log(response); }); </pre> |
| Sample Authorisation Response | <pre> { "access_token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImtpZCI6Ij9FUXpNeIF5T...", "token_type": "Bearer" } // Now extract the access_token and make authorized calls to the API. </pre> |
| Sending the access token with API request | <p>Use this bearer token with an Authorization Header in your request to obtain authorized access to the Middleware.</p> <pre> var settings = { "async": true, "crossDomain": true, "url": "http://path_to_the_middleware_api_endpoint/", "method": "GET", "headers": { "authorization": "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImtpZCI6Ij9FUXpNeIF5T..." } } \$.ajax(settings).done(function (response) { console.log(response); }); </pre> |