

**Version 1.2.5 of API contract is [here](#)**

**Version History** - pls use this [link](#) for adding comments

| Version | Date          | Changes  |
|---------|---------------|--|
| 1.2     | 28th Jun 2024 | <ul style="list-style-type: none"> <li>a. Colour name required wherever colour hex code specified for the following categories - BPC, Fashion, Electronics, H&amp;K;</li> </ul>  |
|         | 7th Apr 2024  | <ul style="list-style-type: none"> <li>a. Removed "Backward Compatibility" section;</li> </ul>   |
|         | 7th Dec 2023  | <ul style="list-style-type: none"> <li>a. Removed <a href="#">seller-on-record signing</a> requirement;</li> </ul>   |
|         | 18th Nov 2023 | <ul style="list-style-type: none"> <li>a. Added <a href="#">support</a> for buyer NP integration with logistics;</li> <li>b. Cancellation:           <ul style="list-style-type: none"> <li>i. Added <a href="#">support</a> for force cancellation;</li> <li>ii. Linking cancellation with IGM issue, with pre-cancel state;</li> </ul> </li> <li>c. Return:           <ul style="list-style-type: none"> <li>i. Linking return with IGM issue;</li> </ul> </li> <li>d. Others:           <ul style="list-style-type: none"> <li>i. Added <a href="#">support</a> for payment collection by seller NP;</li> <li>ii. Added support for communication of fulfillment delay (pickup, delivery);</li> <li>iii. Added <a href="#">doc</a> for authorization (OTP) flow;</li> </ul> </li> </ul> |
|         | 12th Nov 2023 | <ul style="list-style-type: none"> <li>a. Updated <a href="#">categories</a> for grocery;</li> <li>b. Updated <a href="#">category_attributes</a> for <a href="#">BPC</a>;</li> <li>c. Updated <a href="#">category_attributes</a> for <a href="#">Home &amp; Kitchen</a>;</li> <li>d. Updated <a href="#">category_attributes</a> for <a href="#">Health &amp; Wellness</a>;</li> </ul>   |
|         | 4th Nov 2023  | <ul style="list-style-type: none"> <li>a. Added (optional) price for default selections for <a href="#">F&amp;B</a>;</li> <li>b. Added tracking attributes in /on_status to optimize track calls for hyperlocal / hub-based tracking;</li> </ul>   |
|         | 2nd Nov 2023  | <ul style="list-style-type: none"> <li>a. Updated <a href="#">backward compatibility requirements</a>, for pre-order &amp; post-order flows, so that correct version is used;</li> </ul>   |
|         | 17th Oct 2023 | <ul style="list-style-type: none"> <li>a. Added polygon serviceability using GeoJSON (<a href="#">polygon example</a>, <a href="#">multi-polygon example</a>);</li> </ul>  |
|         | 15th Oct 2023 | <ul style="list-style-type: none"> <li>a. Updated offer construct - template definition, applicability rules and offer in quote;</li> <li>b. Added quote type for fulfillment level tax, offer;</li> </ul>   |
|         | 7th Oct 2023  | <ul style="list-style-type: none"> <li>a. Updated <a href="#">/confirm &amp; /on_confirm flow rules</a> to address dangling orders due to inappropriate use of error code 30018;</li> <li>b. Additions to /on_track to support non-hyperlocal orders (in addition to tracking of hyperlocal orders already enabled);</li> </ul>  |
|         | 29th Sep 2023 | <ul style="list-style-type: none"> <li>a. Updated <a href="#">category_attributes</a> for <a href="#">fashion</a>;</li> <li>b. Updated <a href="#">category_attributes</a> for <a href="#">electronics</a>;</li> </ul>   |
|         | 21st Sep 2023 | <ul style="list-style-type: none"> <li>a. Added publishing static terms for <a href="#">transaction_level_contract</a> in /search;</li> <li>b. Added <a href="#">backward compatibility requirements</a>;</li> <li>c. Changed definition for item.tags.custom_group to refer to custom groups directly linked to base item (F&amp;B). This fix is required to support 2 possible types of UX for customizations - single page, multi-page;</li> <li>d. Added identifier for ISN/MSN to catalog.bpp/descriptor.type, /on_confirm;</li> <li>e. Added <a href="#">scenario</a> for seller NP to communicate acceptable finder fee;</li> </ul>   |
|         | 7th Sep 2023  | <ul style="list-style-type: none"> <li>a. Added <a href="#">store reopening</a>;</li> </ul>  |
|         | 20th Aug 2023 | <ul style="list-style-type: none"> <li>a. Fix for customizable items (F&amp;B) to include the full structure of the item (i.e. base item and customizations) in order.items[];<br/>This fix is required because:<br/>i. dynamic item created by buyer NP is actually a grouping of base item &amp; customizations, identified by item.parent_item_id and using this value in item.id would create inconsistencies in the implementation;</li> </ul>  |

|                |  |   |
|----------------|--|---|
|                |  | <ul style="list-style-type: none"> <li>ii. Since all keys in order.items[] (except fulfillment_id) is only updated by buyer NP, the buyer NP needs this to identify the components of the customizable items for processing callbacks for order &amp; post-order flows (explained below);</li> <li>iii. All buyer NPs have validations in place where they match the item ids in order.items[] with the corresponding item ids in order.quote.breakup[];</li> <li>Following APIs are updated - /on_select, /init, /on_init, /confirm, /on_confirm, /on_update, /on_status;</li> </ul> |
| 19th July 2023 |  | <ul style="list-style-type: none"> <li>a. Incremental refresh - entire item record to be sent for any delta change for item(s);</li> <li>b. Changed /track &amp; /on_track - removed callback_url, updates will be through polling only;</li> <li>c. Updated swagger link;</li> </ul>   |
| 15th July 2023 |  | <ul style="list-style-type: none"> <li>a. Moved meta for variants to provider categories (same level as customization groups, custom menus);</li> </ul>   |
| 2nd July 2023  |  | <ul style="list-style-type: none"> <li>a. Changed structure of customization groups, dynamic items in all APIs;</li> </ul>  |
| 19th June 2023 |  | <ul style="list-style-type: none"> <li>a. Changes include:           <ul style="list-style-type: none"> <li>i. examples of catalog for different electronics sub-categories;</li> <li>ii. templatized offer definitions with required rules;</li> <li>iii. changed definition of delivery / pickup timings to be consistent with online order timings;</li> <li>iv. added provider location to /on_select;</li> </ul> </li> </ul>   |
| 12th June 2023 |  | <ul style="list-style-type: none"> <li>a. Changes include:           <ul style="list-style-type: none"> <li>i. changed GST no of ISN to GST no for seller NP in /on_init, added GST no for buyer NP in /confirm;</li> <li>ii. changed refresh_window in incremental catalog refresh (/search) to start_time, end_time;</li> <li>iii. added item availability to F&amp;B catalog;</li> </ul> </li> </ul>   |
| 6th June 2023  |  | <ul style="list-style-type: none"> <li>a. Added features as per the <a href="#">feature doc</a> (changes from v1.1 highlighted)</li> </ul>  |

## 1. Introduction

ONDC API contracts map business requirements for various use case scenarios to a set of attribute keys in different APIs and ensures interoperability, between a buyer NP & seller NP, as follows:

- by defining the set of attribute keys that need to be exchanged to establish a handshake between the buyer NP & seller NP;
- clearly defining the single source of truth for each attribute key and thereby establishing mutability & immutability of these keys on behalf of the participants at each end of the transaction;

This API contract document is structured as follows:

- JSON payload for each API request & response;
- Definition & enumerations of specific attribute keys, as applicable;
- Examples of usage of specific attribute keys for a business requirement, as applicable;
- Expected behaviour of APIs on the network;

Retail API contract includes the following APIs:

**a. Pre-order APIs**

- **/search** - buyer NP specifies the search intent for live search or for catalog crawl;
- **/on\_search** - seller NP responds with the catalog based on the search intent;
- **/select** - buyer NP specifies the items & quantity selected by the buyer;
- **/on\_select** - seller NP responds with the serviceability info, quote & O2D TAT for selected items;
- **/init & /on\_init** - buyer & seller NP specify & agree to the terms & conditions prior to placing the order;
- **/confirm** - buyer NP places the order on behalf of the buyer;
- **/on\_confirm** - seller NP responds to the order placed either through auto-acceptance or deferred acceptance or rejection of the order;

**b. Post-order APIs**

- **/status** - buyer NP requests for the current status of the order;
- **/on\_status** - seller NP provides the current status of the order;
- **/cancel** - buyer NP places cancellation request for the order;
- **/on\_cancel** - seller NP responds to the buyer NP cancellation request or cancels the order directly;
- **/update** - buyer NP initiates a part return or cancel request (for specific items) on behalf of the buyer;
- **/on\_update** - seller NP responds to the buyer NP part return / cancel request or initiates a part cancel request (for specific items) directly;
- **/track** - buyer NP requests for live tracking of order;
- **/on\_track** - seller NP responds with live tracking details for order;

All attribute keys, defined in this API contract, are mandatory, unless explicitly mentioned otherwise. Participants may validate the request & response payloads, based on mandatory attribute keys, as defined in this contract and respond with "NACK" (along with appropriate error code as defined [here](#)) for invalid payloads. Any payload, without optional attribute keys, cannot be considered as invalid.

This API contract has been defined after incorporating requirements (as defined in the feature doc shared earlier).

All participants are required to ensure full compliance with this API contract on the live ONDC network.

## 2. Signing & Verification of requests & responses

- a. Key pairs, for signing & encryption, can be generated using any standard library e.g. [libsodium](#), [Bouncy Castle](#), etc.
- b. Creating key pairs
  - Create key pairs, for signing (ed25519) & encryption (X25519);
  - Update base64 encoded public keys in registry;
  - Utility to generate signing key pairs and test signing & verification is [here](#);
- c. Auth Header Signing
  - Generate UTF-8 byte array from json payload;
  - Generate Blake2b hash from UTF-8 byte array;
  - Create base64 encoding of Blake2b hash, this becomes the digest for signing;
  - Sign the request, using your private signing key, and add the signature to the request authorization header, following steps documented here;
- d. Auth Header Verification
  - Extract the digest from the encoded signature in the request;
  - Get the signing\_public\_key from registry using lookup (by using the ukId in the authorization header);
  - Create (UTF-8) byte array from the **raw payload** and generate Blake2b hash;
  - Compare generated Blake2b hash with the decoded digest from the signature in the request;
  - In case of failure to verify, HTTP error 401 should be thrown;

### 3. Registry lookup

- a. There are 3 possible participant types, for each domain, in the ONDC registry:
  - o Buyer NP
  - o Seller NP (ISN - inventory seller node)
  - o Seller NP (MSN - marketplace seller node or aggregator)
- b. Each participant type, defined above, will have an entry in the registry for their entity;
- c. Every participant on the ONDC registry will have one or more entries in the registry, with unique identifier ("ukid") for each such entry;
- d. Signing & Verification of requests and responses using auth headers is defined [here](#);
- e. All requests & responses have to be signed by the sender and verified by the receiver. If any request fails verification, it should be rejected (NACK'd) with http 401 error code;
- f. The identity of the sender of a request is sent, through the auth header, as follows:

```
keyId="{subscriber_id}{unique_key_id}{algorithm}"
```

- g. Signing by all participants will be using their private key, for which the corresponding public key will be in the registry for their "ukid";
- h. Verification of requests is using registry lookup using [this API spec](#). **Participants can either use the registry lookup endpoints from [here](#) or cache the registry locally (with refresh at regular interval) for a local lookup;**
- i. Following options are available:

- o [\*\*/lookup\*\*](#)

request:

```
{
  "subscriber_id": "buyerNP.com",
  "domain": "ONDC:RET10",
  "ukId": "UKID1",
  "country1": "IND",
  "city2": "std:080",
  "type3": "BPP"
}
```

response:

(will be an array with 1 or more objects, depending on whether the entity, identified by the subscriber\_id, has registered as different participants in a domain, e.g. buyer NP, seller NP)

```
[
  {
    "subscriber_id": "buyerNP.com",
    "status": "SUBSCRIBED",
    "ukId": "UKID1",
    "subscriber_url": "https://buyerNP.com/ondc",
    "country": "IND",
    "domain": "ONDC:RET10",
    "valid_from": "2023-06-03T06:00:00.000Z",
    "valid_until": "2027-06-02T06:00:00.000Z",
    "type": "BPP",
    "signing_public_key": "<ed25519_signing_public_key>,
```

---

<sup>1</sup> optional

<sup>2</sup> optional

<sup>3</sup> optional, enum - "BPP", "BAP", "BG"

```

    "encr_public_key": "<x25519_encryption_public_key>",
    "created": "2023-06-03T06:00:00.000Z",
    "updated": "2023-06-03T06:00:00.000Z",
    "br_id": "<br_id>",
    "city": "std:080"
  }
]

```

- **/vlookup**

```

{
  "sender_subscriber_id"4: "buyerNP.com",
  "request_id"5: "123456789",
  "timestamp"6: "2023-06-03T06:00:00.000Z",
  "search_parameters":
  {
    "domain": "ONDC:RET10",
    "subscriber_id"7: "sellerNP.com",
    "country": "IND",
    "type": "sellerApp"8,
    "city": "std:080"
  },
  "signature"10: ""
}

```

---

<sup>4</sup> subscriber id of request initiator

<sup>5</sup> unique identifier for request

<sup>6</sup> timestamp in RFC3339 format

<sup>7</sup> optional

<sup>8</sup> enum - "buyerApp", "sellerApp", "gateway"

<sup>9</sup> optional

<sup>10</sup> search\_parameters signed using private key of request initiator:

sign(country|domain|type|city|subscriber\_id) => sign(IND|**ONDC:RET10**|sellerApp|std:080|sellerNP.com)

## 4. Construct of APIs & transaction trail

- a. All APIs follow the same construct and include:
  - **Context** - includes transaction\_id, message\_id and other attribute keys that identify the source & destination of the message being sent through the API request or response;
  - **Message** - identifies the content of the message e.g. the search intent, catalog details, order details, etc.;
- b. All APIs are asynchronous, i.e.:
  - request is sent from sender to recipient;
  - recipient acknowledges the request by sending an "ACK" (or "NACK" if they cannot validate the request);
  - recipient sends response through the callback for the corresponding request API e.g. /on\_search callback for /search request;
  - recipient of callback (could be the original sender) acknowledges the response by sending an "ACK" (or "NACK" if they cannot validate the request);
- c. Every request & response pair is identified by a transaction\_id + unique message\_id & the sender of a request is able to correlate the response to the request using the above;
- d. If a stale request or response is received, i.e. with timestamp earlier than similar request or response (identified by the transaction\_id + message\_id) that has already been processed, the recipient can send "NACK" with the error code "20002" (buyer NP) and "30022" (seller NP);
- e. Error block can be sent in sync (in response to request) or async (along with callback) mode and should have the following attribute keys: error.type, error.code;
- f. ONDC standard error codes are defined [here](#);
- g. Transaction trail for a buyer is maintained through a unique transaction\_id for the pre-order stage, i.e. /search, /select, /init, /confirm. However, considering that most buyer apps cache catalogs that are reused by multiple buyer apps, for providing a good buyer experience, an unique transaction\_id is maintained for /select, /init & /confirm.
- h. Buyer apps with live search functionality can use the same transaction\_id across the entire pre-order stage;
- i. Unique id for an order on a network will be identified by the transaction\_id & order id;
- j. Swagger link is [here](#);

## 5. API Contract

### /search

- Search API will be used to communicate the intent for a full or incremental catalog refresh;
  - Search request is always broadcast through the gateway so that all NPs who have registered for the specific domain, in the search request, are notified;
  - Buyer NP (BNP) will also publish the static terms for [transaction level contract](#) through this API;

#### Full catalog refresh

- Includes following enhancements:
  - **Full catalog response will be sent directly by the seller NPs to the buyer NP from which the search request was received through the gateway;**
  - Option for distributed search by city by category:
    - Buyer NPs can optionally refresh catalogs for a city by sub-category, e.g. for Grocery (ONDC:RET10), catalog can be refreshed separately for each sub-category;
      - **However, this will not be possible for categories, such as F&B, where the category hierarchy is not consistent across merchants;**
    - Buyer NP can decide to refresh catalog as follows:
      - by city by sub-category for Grocery, i.e. Context.domain="ONDC:RET10", category.id = "Foodgrains";
      - only by city for F&B, i.e. Context.domain = "ONDC:RET11";
    - Distributed search i.e. by category will also allow differential buyer finder fee for different sub-categories in a domain;
  - Option for buyer NP to specify whether search response should be in the form of inline response in /on\_search (as of now) or as an authorized link (with limited time validity) for the buyer NP to download & ingest;

i. Search by city<sup>11</sup>

```
{
  "context": {
    "domain": "ONDC:RET1012",
    "action": "search",
    "country": "IND",
    "city": "std:08013",
    "core_version": "1.2.0",
    "bap_id14: "buyerNP.com",
    "bap_uri15: "https://buyerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp16: "2023-06-03T08:00:00.000Z",
    "ttl17: "PT30S"
  },
  "message": {
    "intent": {
      "category18: {
        "id": "Foodgrains19"
      },
      "fulfillment20: {
        "type": "Delivery"
      },
      "payment": {
        "@ondc/org/buyer_app_finder_fee_type": "percent21",
        "@ondc/org/buyer_app_finder_fee_amount22: "3"
      },
      "tags": [
        {
          "code": "bap_terms23",
          "list": [
            {
              "code": "static_terms",
              "value": ""
            },
            {
              "code": "static_terms_new",
              "value": "https://github.com/ONDC-Official/NP-Static-Terms/buyerNP_BNP/1.0/tc.pdf"
            },
            {
              "code": "effective_date",
              "value": "2023-10-01T00:00:00.000Z"
            }
          ]
        }
      }
    }
  }
}
```

<sup>11</sup> search request for all sellers in the city identified in Context;

<sup>12</sup> updated domain namespace defined [here](#);

<sup>13</sup> city code for search that identifies the cities where sellers have stores. List of city codes, with pincode mapping, are [here](#);

<sup>14</sup> subscriber id for buyer app;

<sup>15</sup> subscriber URI for buyer app;

<sup>16</sup> RFC3339 compliant timestamp;

<sup>17</sup> validity of message;

<sup>18</sup> optional

<sup>19</sup> category id will be from this [list](#);

<sup>20</sup> optional, when not specified, all fulfillment types supported by provider should be returned in response;

<sup>21</sup> enum - "percent", "amount";

<sup>22</sup> buyer NP finder fee calculations are detailed [here](#);

<sup>23</sup> static terms for [transaction level contract](#);

ii. Search by city (response as downloadable link)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "search",
    "country": "IND",
    "city": "std:080",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "intent": {
      "payment": {
        "@ondc/org/buyer_app_finder_fee_type": "percent",
        "@ondc/org/buyer_app_finder_fee_amount": "3"
      },
      "tags": [
        {
          "code": "catalog_full",
          "list": [
            {
              "code": "payload_type",
              "value": "link"
            }
          ]
        },
        {
          "code": "bap_terms24",
          "list": [
            {
              "code": "static_terms",
              "value": ""
            },
            {
              "code": "static_terms_new",
              "value": "https://github.com/ONDC-Official/NP-Static-Terms/buyerNP_BNP/1.0/tc.pdf"
            },
            {
              "code": "effective_date",
              "value": "2023-10-01T00:00:00.000Z"
            }
          ]
        }
      ]
    }
  }
}
```

---

<sup>24</sup> static terms for [transaction level contract](#);

### iii. Search by item<sup>25</sup>

```
{
  "context": {
    "domain": "ONDC:RET1026",
    "action": "search",
    "country": "IND",
    "city": "std:080",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "intent": {
      "item": {
        "descriptor": {
          "name": "coffee"
        }
      },
      "fulfillment": {
        "type27": "Delivery",
        "end": {
          "location": {
            "gps28": "12.974002,77.613458",
            "address29": {
              "area_code": "560001"
            }
          }
        }
      },
      "payment": {
        "@ondc/org/buyer_app_finder_fee_type": "percent",
        "@ondc/org/buyer_app_finder_fee_amount": "3"
      }
    },
    "tags": [
      {
        "code": "bap_terms30",
        "list": [
          {
            "code": "static_terms",
            "value": ""
          },
          {
            "code": "static_terms_new",
            "value": "https://github.com/ONDC-Official/NP-Static-Terms/buyerNP_BNP/1.0/tc.pdf"
          },
          {
            "code": "effective_date",
            "value": "2023-10-01T00:00:00.000Z"
          }
        ]
      }
    ]
  }
}
```

<sup>25</sup> search request for catalog from sellers that match the search item & provide fulfillment at the specified drop location (gps coordinates, area code);

<sup>26</sup> updated domains defined [here](#);

<sup>27</sup> optional, when not specified, all fulfillment types supported by provider should be returned in response;

<sup>28</sup> minimum 6 digit decimal precision for gps coordinates;

<sup>29</sup> optional;

<sup>30</sup> static terms for [transaction level contract](#);

iv. Search by fulfillment end location<sup>31</sup>

```
{
  "context": {
    "domain": "ONDC:RET1032",
    "action": "search",
    "country": "IND",
    "city": "std:080",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "intent": {
      "fulfillment": {
        "type": "Delivery",
        "end": {
          "location": {
            "gps": "12.974002,77.613458",
            "address": {
              "area_code": "560001"
            }
          }
        }
      },
      "payment": {
        "@ondc/org/buyer_app_finder_fee_type": "percent",
        "@ondc/org/buyer_app_finder_fee_amount": "3"
      },
      "tags": [
        {
          "code": "bap_terms35",
          "list": [
            {
              "code": "static_terms",
              "value": ""
            },
            {
              "code": "static_terms_new",
              "value": "https://github.com/ONDC-Official/NP-Static-Terms/buyerNP_BNP/1.0/tc.pdf"
            },
            {
              "code": "effective_date",
              "value": "2023-10-01T00:00:00.000Z"
            }
          ]
        }
      }
    }
  }
}
```

<sup>31</sup> search request for catalog from sellers that provide fulfillment at the specified drop location (gps coordinates, area code); optional for both buyer & seller NPs - if buyer NP sends this request which a seller NP does not support, they may not respond or NACK with error 30000;

<sup>32</sup> updated domains defined [here](#);

<sup>33</sup> optional, when not specified, all fulfillment types supported by provider should be returned in response

<sup>34</sup> minimum 6 digit decimal precision for gps coordinates;

<sup>35</sup> static terms for [transaction level contract](#);

## Incremental catalog refresh

- Incremental refresh is necessary for buyer NPs that cache catalogs and reflect changes since the last **full** catalog refresh;
- Every buyer NP that wants to consume incremental catalog changes should send a /search request through the gateway. This will be as an enhancement to the current /search API (for city) in the API contract;
- Buyer NP can send following config params in the /search request:
  - Full refresh:
    - **payload\_type** - inline (response contains catalog), link (response points to link for accessing catalog);
  - Incremental refresh:
    - **mode** - "start", "stop";
    - **start\_time** - start time for incremental refresh;
    - **end\_time** - end time for incremental refresh;
- Following scenarios are possible:
  - Buyer NP requests **1-time** incremental refresh:
    - **start\_time < Context.timestamp, end\_time < Context.timestamp, end\_time >** **start\_time** (means buyer NP pulls incremental updates from start\_time to end\_time in a single solicited response);
  - Buyer NP requests **regular** incremental refresh until stopped:
    - mode="start", start\_time <= Context.timestamp (means seller NP pushes incremental updates from start\_time at a frequency within a range of 1-30 mins). If no start\_time provided, it defaults to Context.timestamp;
    - Seller NP should aggregate and push updates, at the same time, to all buyer NPs that have requested for incremental refresh;
    - If there are no incremental catalog updates, seller NP should not send empty catalog;
  - Buyer NP requests stopping of incremental refresh:
    - mode="stop";
  - **All the above scenarios are mandatory for all NPs;**
- Buyer NPs can use the /search API to request for solicited or unsolicited incremental catalog refresh:
  - for solicited response, the response will have the same transaction\_id & message\_id as the request;
  - for unsolicited response, the response will have the same transaction\_id but different message\_id;
- At any point of time, buyer NP may have only 1 open incremental search request (i.e. 1-time or regular). Accordingly, buyer NP needs to stop the current incremental search request before initiating a new incremental search request:
  - transaction\_id for stop incremental search request should be same as start incremental search request;
- To handle race condition where the buyer NP receives full & incremental refresh at the same time, versioning will be enabled for both types of refresh:
  - Full refresh will have a timestamp at the provider & location level and indicates when the snapshot was generated;
  - Incremental refresh will have a timestamp at provider / location / item level and indicates the time of the event;
- In case of race condition where the buyer NP receives full & incremental refresh at the same time, either of these approaches is feasible:
  - Buyer NP can process the full refresh and then initiate incremental refresh e.g. if full refresh at 8AM was ingested between 8-9AM, buyer NP can stop the **incremental** refresh before initiating the **full** refresh or choose to ignore all **incremental** refresh within this duration of catalog ingestion. After processing the full refresh, buyer NP can initiate incremental refresh based on the timestamp in full refresh;
  - Buyer NPs can process full & incremental refresh in sequence and use the timestamp to decide which incremental refresh updates to persist;
- To handle error conditions, i.e. buyer NP not responding or responding with a NACK, the seller NP should push catalog updates in multiple incremental refresh until ACK is received from all buyer NPs. Response format for NACK is [here](#);

### Request incremental catalog refresh (pull)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "search",
    "country": "IND",
    "city": "Mumbai",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T09:00:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "intent": {
      "payment": {
        "@ondc/org/buyer_app_finder_fee_type": "percent",
        "@ondc/org/buyer_app_finder_fee_amount": "3"
      },
      "tags": [
        {
          "code": "catalog_inc36",
          "list": [
            {
              "code": "start_time",
              "value": "2023-06-03T08:00:00.000Z"
            },
            {
              "code": "end_time",
              "value": "2023-06-03T09:00:00.000Z37"
            }
          ]
        },
        {
          "code": "bap_terms38",
          "list": [
            {
              "code": "static_terms",
              "value": ""
            },
            {
              "code": "static_terms_new",
              "value": "https://github.com/ONDC-Official/NP-Static-Terms/buyerNP_BNP/1.0/tc.pdf"
            },
            {
              "code": "effective_date",
              "value": "2023-10-01T00:00:00.000Z"
            }
          ]
        }
      ]
    }
  }
}
```

#### N.B.

1. In this case, incremental updates will be sent from 8AM to 9AM in a single solicited response;

<sup>36</sup> start\_time < Context.timestamp, end\_time <= Context.timestamp, end\_time > start\_time;

<sup>37</sup> should match the current time, i.e. Context.timestamp, so that the latest available update is sent;

<sup>38</sup> static terms for [transaction level contract](#);

### Request for incremental catalog refresh (push)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "search",
    "country": "IND",
    "city": "*",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "intent": {
      "payment": {
        "@ondc/org/buyer_app_finder_fee_type": "percent",
        "@ondc/org/buyer_app_finder_fee_amount": "3"
      },
      "tags": [
        {
          "code": "catalog_inc",
          "list": [
            {
              "code": "mode",
              "value": "start"
            }
          ]
        },
        {
          "code": "bap_terms39",
          "list": [
            {
              "code": "static_terms",
              "value": ""
            },
            {
              "code": "static_terms_new",
              "value": "https://github.com/ONDC-Official/NP-Static-Terms/buyerNP_BNP/1.0/tc.pdf"
            },
            {
              "code": "effective_date",
              "value": "2023-10-01T00:00:00.000Z"
            }
          ]
        }
      ]
    }
  }
}
```

**N.B.**

1. In this case, incremental changes will be pushed from Context.timestamp and aggregated within a range of 1-30 mins at the seller NP discretion;

---

<sup>39</sup> static terms for [transaction level contract](#);

### Stop incremental refresh (push)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "search",
    "country": "IND",
    "city": "*",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "intent": {
      "payment": {
        "@ondc/org/buyer_app_finder_fee_type": "percent",
        "@ondc/org/buyer_app_finder_fee_amount": "3"
      },
      "tags": [
        {
          "code": "catalog_inc",
          "list": [
            {
              "code": "mode",
              "value": "stop"
            }
          ]
        }
      ]
    }
  }
}
```

## /on\_search

### Full catalog refresh

- Full catalog refresh includes the complete catalog, per provider, for a seller NP at a point in time (as identified by Context.timestamp). If a buyer NP is caching the catalog, the list of items for a provider will be overwritten with the list of items in the catalog refresh, i.e. existing items in the buyer NP cache which aren't in the catalog refresh will be disabled;
- However, since seller NPs may send separate catalog responses per provider (i.e. pagination by provider), it is possible that a catalog response for a provider may not be received by the buyer NP. Hence, provider(s) must be explicitly disabled, through the incremental refresh, and cannot be disabled if a response isn't received in the catalog response;
- Following enhancements are included:

- **Customizations & Variants**

- Customizations may be used to create make-to-order products (e.g. F&B), by defining the base product and the mandatory & optional customizations for the product;
- Customizations will be enabled using customization groups and individual customizations. Individual customizations are similar to SKU items (with price, inventory, veg/non-veg attributes);
- Customizations can also be used to send special instructions e.g. for:
  - Food preparation ("less spicy", "less salt", etc.);
  - Packaging related instructions (card for "Happy Birthday", etc.);
- Variants may be used by buyer NPs to group multiple items for display;
- Even though the examples here show customizations & variants for specific categories, it can be used for other categories such as electronics, fashion, grocery, pharma, home & kitchen, etc.;

- **Custom Menu**

- Custom Menu may be used to define a provider-level menu for rendering on the buyer app. **Even though the examples below show custom menus for F&B, it can be used for other categories such as electronics, fashion, grocery, etc.;**
- Custom menu structure is hierarchical and can include multiple levels;
- Custom menu will have display sequence at each of the levels;
- Item can be assigned to multiple menu items with ranking for display within the custom menu;
- The menu items will have an unique display sequence, for parent & child menu items;

- **Separate UOM & quantity for item**

- **Offers**

- Offers can be defined for a provider, either in the full or incremental catalog refresh;
- An offer can be for:
  - retail
  - logistics
- An offer can be:
  - opt-in
  - auto-applied
- An offer will include the following info:
  - offer id
  - offer type
  - images - may be used as banners to promote the offer from a merchant;
- An offer applicability criteria can include one or more of the following:
  - location(s);
  - categories;
  - item(s);
  - time period validity;

- Offer definitions will be templated and the buyer NP can create the appropriate description for the offers from the template variables (qualifier, benefit) and using the applicable criteria for location(s), categories, item(s), time period validity;

- **Definition template**

|   |            |                    | Qualifier |            |         | Benefit |            |           |            |         |            |
|---|------------|--------------------|-----------|------------|---------|---------|------------|-----------|------------|---------|------------|
| # | Offer type | Offer id (example) | Min value | Item count | Item ID | Value   | Value type | Value cap | Item count | Item id | Item value |
| 1 | discount   | DISCP60            | ₹159      |            |         | -60     | percent    | -₹120     |            |         |            |
| 2 | discount   | FLAT150            | ₹499      |            |         | -₹150   | amount     |           |            |         |            |
| 3 | buyXgetY   | BUY2GET3           |           | 2          |         |         |            |           | 3          | item id |            |
| 4 | freebie    | FREEBIE            | ₹598      |            |         |         |            |           | 1          | item id | ₹200       |

In the template above:

- **Offer type** - standard offer types:
  - **discount** - discount percent or amount applied to the cart value, with or without a cap, and may be based on minimum cart value;
  - **buyXgetY** - for every "X" item count in the cart, total of "Y" items will be offered (i.e. "Y" - "X" additional items), at 0 additional value;
  - **freebie** - for a minimum order value, 1 or more free item(s) will be offered at 0 value;
- **Offer id** - unique offer id from provider;
- **Offer qualifiers:**
  - **Min value** - min cart value for the offer to be applicable;
  - **Item count** - min count of items in the cart for the offer to be applicable;
  - **Item id** - Item id that qualifies for offer;
- **Offer benefit:**
  - **Value** - discount on the cart value (-ve) or value for extra items offered (0);
  - **Value type** - "percent", "amount";
  - **Value cap** - cap on the offer value;
  - **Item count** - total count of items offered;
  - **Item id** - additional item offered, should be part of the catalog;
  - **Item value** - actual value of item being offered;

Description of the above (example) offer ids:

- **DISCP60** - 60% off up to ₹120, for order value above ₹159;
- **DISCA150** - flat 150 off, for order value above ₹499;
- **BUY2GET3** - buy 2 items, get additional item for free or for offered price;
- **FREEBIE** - free item (of value ₹200) for order value above ₹598;
- **Provider level enhancements**
  - Enabling store (i.e. location) which may have been disabled in incremental catalog refresh;
  - Provider level fulfillment options e.g. for delivery, self-pickup and the corresponding timings (for hyperlocal categories only);
  - Minimum order value;
  - Option for provider catalog zip file in lieu of embedding the json inline in the /on\_search response;
  - Provider level credentials, such as certifications, awards, export/import licences etc;
  - Enhanced store timings;

## Catalog (F&B)

F&B catalog includes the following:

- Base (SKU) items with item id e.g. "Farmhouse Pizza";
- 1 or more customization groups defined for the provider, along with configurations (id, name, min / max, input type, sequence for display), e.g. "Crust", "Size";
- 1 or more variant grouping(s) defined for the provider;
- 1 or more customizations - each customization is similar to base item and each customization may be assigned to 1 or more customization group, e.g. "Small", "Medium", "Large" may be customizations assigned to customization group "Size";
- Customizations for the base item as follows:
  - Base (SKU) item may be customized using 1 or more customization groups;
  - If any of the mandatory customizations aren't defined (i.e. definition for customization group with min > 0 is not found or invalid or no customizations mapped to this customization group), the buyer NP may consider the base item as invalid & disable accordingly;
  - Configurations (min / max, sequence for display) may be overridden at item level. If not overridden, configurations will be inherited from the customization group definition;
- Contract payload is below and includes every construct both required & optional for F&B. Detailed examples, for specific use-cases are below;

```
{
  "context": {
    "domain": "ONDC:RET11",
    "country": "IND",
    "city": "std:080",
    "action": "on_search",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:30.000Z"
  },
  "message": {
    "catalog": {
      "bpp/fulfillments": [
        {
          "id": "1",
          "type": "Delivery"
        },
        {
          "id": "2",
          "type": "Self-Pickup"
        },
        {
          "id": "3",
          "type": "Delivery and Self-Pickup"
        }
      ],
      "bpp/descriptor40": {
        "name": "Seller NP",
        "symbol41": "https://sellerNP.com/images/np.png",
        "short_desc": "Seller Marketplace",
        "long_desc": "Seller Marketplace",
        "images": [
          "https://sellerNP.com/images/np.png"
        ],
        "tags": [
          {
            "code": "bpp_terms",
            "list": [
              {
                "code": "np_type",
                "value": "Food"
              }
            ]
          }
        ]
      }
    }
  }
}
```

<sup>40</sup> descriptor for seller NP;

<sup>41</sup> logo or image for seller NP;

```

    "value":"ISN42"}
  },
  {
    "code":"accept_bap_terms",
    "value":"Y43"}
  },
  {
    "code":"collect_payment44",
    "value":"Y45"}
  }
]
},
"bpp/providers46":
[
{
  "id":"P147",
  "time":
  {
    "label":"enable48",
    "timestamp":"2023-06-03T07:00:00.000Z49"}
  },
  "fulfillments50":
  [
  {
    "id":"F1",
    "type":"Delivery",
    "contact51":
    {
      "phone":"988609886052",
      "email":53"abc@xyz.com"
    }
  },
  {
    "id":"F2",
    "type":"Self-Pickup",
    "contact":
    {
      "phone":"9886098860",
      "email":53"abc@xyz.com"
    }
  },
  {
    "id":"F3",
    "type":"Buyer-Delivery",
    "contact":
    {
      "phone":"9886098860",
      "email":53"abc@xyz.com"
    }
  }
],
"descriptor":
{
  "name":"Store 1",
  "symbol":"https://sellerNP.com/images/store1.png",
  "short_desc":"Store 1",
  "long_desc":"Store 1",
  "images":
  [
    "https://sellerNP.com/images/store1.png"
  ]
},

```

<sup>42</sup> self-declaration of type of NP, enum - "ISN" (inventory seller), "MSN" (marketplace);

<sup>43</sup> enum - "Y" (yes), "N" (no);

<sup>44</sup> optional - may be provided if seller NP wants to collect payment;

<sup>45</sup> enum - "Y" (yes), "N" (no);

<sup>46</sup> descriptor for seller (merchant) that processes & fulfills orders;

<sup>47</sup> **unique id for provider**;

<sup>48</sup> enum - "enable" (default), "disable" (soft delete of provider from buyer NP cache);

<sup>49</sup> **timestamp when the snapshot for this provider (including provider details, items) was generated, must be <= Context.timestamp. Buyer NPs can use this to determine from when to start incremental refresh;**

<sup>50</sup> provider level fulfillment options;

<sup>51</sup> contact details for merchant - if merchant is in multiple locations, this will be the contact detail for merchant and contact detail for the storefront (specific location) will be in fulfillment.start;

<sup>52</sup> valid 10 digit (mobile no) or 11 digit no;

<sup>53</sup> email id of merchant or seller NP;

```

"@ondc/org/fssai_license_no54":"12345678901234",
"ttl":"P1D55",
"locations56":
[
{
  "id":"L1",
  "time": {
    "label":"enable57",
    "timestamp":"2023-06-03T07:30:30.000Z58",
    "days":"1,2,3,4,5,6,7",
    "schedule": {
      "holidays59:
      [
        "2023-08-15"
      ],
      "frequency":"PT4H",
      "times":
      [
        "1100",
        "1900"
      ]
    },
    "range": {
      "start":"1100",
      "end":"2100"
    }
  },
  "gps":12.967555,77.749666,
  "address": {
    "locality60":"Jayanagar",
    "street":"Jayanagar 4th Block",
    "city":"Bengaluru",
    "area_code":560076,
    "state":KA
  },
  "circle": {
    "gps":12.967555,77.749666,
    "radius": {
      "unit":"km",
      "value":3
    }
  }
},
"categories61":
[
{
  "id":"562",
  "parent_category_id":"",
  "descriptor": {
    "name":"Pizza",
    "short_desc":"Veg and Non-Veg pizza",
    "long_desc":"American and Italian Veg and Non-Veg Pizza",
    "images63":
  }
}
]

```

<sup>54</sup> valid 14 digit FSSAI # required for F&B provider;

<sup>55</sup> ISO8601 duration format for validity of provider catalog;

<sup>56</sup> locations for provider with unique id for each location;

<sup>57</sup> enum - "enable" (default), "disable" (soft delete of provider location, i.e. warehouse or store, from buyer NP cache - in this case, serviceability update for the store should not be a part of the catalog), "close" (temporary closure of store with the same format for time.range as specified, for incremental refresh, [here](#) - only if this event is available at the time of generating the full catalog snapshot), "open" (reopening of store when the store was previously closed for an indefinite time); if store close timing was provided previously and store info is being updated thru "enable", provider.tags.close\_timing may be used to provide the store close timing;

<sup>58</sup> **timestamp when the snapshot for location was generated, must be <= Context.timestamp;**

<sup>59</sup> list of future dated holidays, to be used as per holiday calendar; if no holidays, empty array needs to be passed;

<sup>60</sup> locality name;

<sup>61</sup> custom menu / customization group / variant definitions for provider (optional);

<sup>62</sup> unique id for custom category (across customization group, custom menu, variant group); alphanumeric & up to 12 characters;

<sup>63</sup> optional

```

        [
            "https://sellerNP.com/ondc/m005.png"
        ],
        "tags": [
            {
                "code": "type",
                "list": [
                    {
                        "code": "type",
                        "value": "custom_menu"64
                    }
                ]
            },
            {
                "code": "timing"65,
                "list": [
                    {
                        "code": "day_from",
                        "value": "1"66
                    },
                    {
                        "code": "day_to"67,
                        "value": "5"
                    },
                    {
                        "code": "time_from"68,
                        "value": "1800"
                    },
                    {
                        "code": "time_to"69,
                        "value": "2200"
                    }
                ]
            },
            {
                "code": "display"70,
                "list": [
                    {
                        "code": "rank",
                        "value": "3"
                    }
                ]
            }
        ],
        {
            "id": "CG1"71,
            "descriptor": [
                {
                    "name": "Crust (any 1 option)"
                }
            ],
            "tags": [
                {
                    "code": "type",
                    "list": [
                        {
                            "code": "type",
                            "value": "custom_group"72
                        }
                    ]
                }
            ]
        }
    ]
  
```

<sup>64</sup> enum - "custom\_menu", "custom\_group", "variant\_group";

<sup>65</sup> (optional) if specified, indicates preferred display timing for custom menu item, e.g. above means preference is to display this menu item from Monday to Friday from 1800 to 2200; if not specified, indicates preference for displaying this menu item as per store timings;

<sup>66</sup> valid value - day of week ("1" - Monday, "7" - Sunday);

<sup>67</sup> valid value - day of week ("1" - Monday, "7" - Sunday), day\_to >= day\_from;

<sup>68</sup> valid value - 24hr format ("0000" to "2359");

<sup>69</sup> valid value - 24hr format ("0000" to "2359"), time\_to > time\_from;

<sup>70</sup> preferred display rank for custom menu item, above example means preference is to display in rank 3 of the custom menu;

<sup>71</sup> unique id for custom category (across customization group, custom menu, variant); alphanumeric & up to 12 characters;

<sup>72</sup> **custom category type**, enum - "custom\_menu", "custom\_group", "variant\_group";

```

},
{
  "code":"config73",
  "list":
  [
    {
      "code":"min",
      "value":"1"
    },
    {
      "code":"max",
      "value":"1"
    },
    {
      "code":"input",
      "value":"select74"
    },
    {
      "code":"seq",
      "value":"1"
    }
  ]
},
{
  "id":"CG2",
  "descriptor":
  {
    "name":"Size (any 1 option)"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"custom_group"
        }
      ],
      "code":"config",
      "list":
      [
        {
          "code":"min",
          "value":"1"
        },
        {
          "code":"max",
          "value":"1"
        },
        {
          "code":"input",
          "value":"select"
        },
        {
          "code":"seq",
          "value":"2"
        }
      ]
    }
  ],
  "id":"CG3",
  "descriptor":
  {
    "name":"Toppings (up to 2 options)"
  },
  "tags":
  [
    {

```

<sup>73</sup> customization group definition including id, name, min / max, input type, sequence of display;

<sup>74</sup> input type for customization group, enum: "select" (selection by buyer from available customizations based on min/max), "text" (text entered by buyer e.g. for engraving);

```

  "code":"type",
  "list":
  [
    {
      "code":"type",
      "value":"custom_group"
    }
  ],
  {
    "code":"config",
    "list":
    [
      {
        "code":"min",
        "value":"0"
      },
      {
        "code":"max",
        "value":"2"
      },
      {
        "code":"input",
        "value":"select"
      },
      {
        "code":"seq",
        "value":"3"
      }
    ]
  }
],
"items":
[
  {
    "id":"i1",
    "time":
    {
      "label":"enable75",
      "timestamp":"2023-06-03T07:30:00.000Z76"
    },
    "descriptor":
    {
      "name":"Farmhouse Pizza",
      "symbol":"https://sellerNP.com/images/i1.png",
      "short_desc":"Farmhouse Pizza",
      "long_desc":"Farmhouse Pizza",
      "images77":
      [
        "https://sellerNP.com/images/i1.png"
      ]
    },
    "quantity":
    {
      "unitized":
      {
        "measure":
        {
          "unit":"unit78",
          "value":"1"
        }
      },
      "available":
      {
        "count79":"99"
      },
      "maximum":
      {
        "count80":"99"
      }
    }
  }
]

```

<sup>75</sup> enum - "enable", "disable";

<sup>76</sup> timestamp for item event;

<sup>77</sup> while item images ensures better discoverability & enhances user experience, if no image is available, seller NPs shouldn't send image (instead of sending placeholder image);

<sup>78</sup> enum - "unit", "dozen", "kilogram", "tonne", "litre", "millilitre" (list [here](#));

<sup>79</sup> stringified integer value - default value for item in stock;

<sup>80</sup> stringified integer value - cap per order (if exists) or default value;

```

},
"price":
{
  "currency":"INR",
  "value":269.081,
  "maximum_value":269.0,
  "tags82:
  [
    {
      "code":"range",
      "list":
      [
        {
          "code":"lower",
          "value":269.0083
        },
        {
          "code":"upper",
          "value":304.0084
        }
      ]
    },
    {
      "code":"default_selection85",
      "list":
      [
        {
          "code":"value86",
          "value":269.00
        },
        {
          "code":"maximum_value87",
          "value":290.00
        }
      ]
    }
  ],
  "category_id":F&B88,
  "category_ids":
  [
    "5:1"89
  ],
  "fulfillment_id90:"F1",
  "location_id91:"L1",
  "related":false,
  "recommended":true,
  "@ondc/org/returnable":false,
  "@ondc/org/cancellable":false92,
  "@ondc/org/return_window":"PT1H",
  "@ondc/org/seller_pickup_return93:false,
  "@ondc/org/time_to_ship":"PT45M",
  "@ondc/org/available_on_cod":false,
  "@ondc/org/contact_details_consumer_care94: "Ramesh,ramesh@abc.com,18004254444",
  "tags":

```

<sup>81</sup> in case value for base item is 0 (for item with customizations), BNPs should check for mandatory customization group(s) and default customization for each group and add this for displaying on the item listing page;

<sup>82</sup> (optional) upper & lower price range, for product created using this base item & customizations, for display on the store listing page;

<sup>83</sup> up to 2 decimal places;

<sup>84</sup> up to 2 decimal places;

<sup>85</sup> price for default selection - may be used for display **only when base item has price of 0** and SNP has created default selection using the base item and one or more customizations;

<sup>86</sup> selling price

<sup>87</sup> MRP

<sup>88</sup> item category from this list and used by buyer NPs to categorize on CLP; if seller NPs enter "F&B", buyer NPs can use their own intelligence to show the grouping;

<sup>89</sup> item assigned to custom menu, can only be assigned to child menu item (if there is a parent menu item) or the root menu item; defined in this format - "custom menu item id:display sequence within custom menu item", in this case, "Farm House Pizza" is displayed at the top when menu item for id 5 ("Pizza") is clicked. If custom menu item id is not found or invalid, buyer NP may decide to show this item under the parent menu item id (in case of parent->child menu item) or delink this item from the custom menu (however, the item will still be visible on the item listing for the provider or through other modes of discovery);

<sup>90</sup> default fulfillment type;

<sup>91</sup> unique location for provider as defined in the catalog;

<sup>92</sup> should default to false except for specific packaged items;

<sup>93</sup> whether seller is responsible for pick up of item for return;

<sup>94</sup> valid contact details exactly in this format - name, email, contact no;

```
[
  {
    "code": "type95",
    "list": [
      {
        "code": "type",
        "value": "item96"
      }
    ],
    {
      "code": "custom_group97",
      "list": [
98        {
          "code": "id",
          "value": "CG1"
        }
      ],
      {
        "code": "config99",
        "list": [
          {
            "code": "id",
            "value": "CG1"
          },
          {
            "code": "min",
            "value": "1"
          },
          {
            "code": "max",
            "value": "1"
          },
          {
            "code": "seq",
            "value": "1"
          }
        ]
      },
      {
        "code": "timing100",
        "list": [
          {
            "code": "day_from",
            "value": "1"
          },
          {
            "code": "day_to",
            "value": "5"
          },
          {
            "code": "time_from",
            "value": "1800"
          },
          {
            "code": "time_to",
            "value": "2200"
          }
        ]
      },
      {
        "code": "veg_nonveg",
        "list": [

```

<sup>95</sup> required only for items that can be configured using customizations;

<sup>96</sup> enum - "item", "dynamic\_item", "customization";

<sup>97</sup> customization group(s) directly linked to base item should be listed here;

<sup>98</sup> if customization group directly linked to base item is not defined (in provider.categories) or no customizations have been mapped to this customization group, the buyer NP may consider the base item as invalid & disable accordingly;

<sup>99</sup> configuration of customization group for item, **only if overridden at item level**; otherwise, configurations are inherited from the custom category definition for the provider, of type "custom\_group" for this id;

<sup>100</sup> item availability timing (optional); if separate timing for each day, can create multiple such groups. If there is an overlap across these availability timing groups, the union of timings will be considered;

```

    {
      "code":"veg101",
      "value":"yes"
    }
  ]
},
{
  "id":"C1",
  "descriptor":
  {
    "name":"New Hand Tossed"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"0.0",
    "maximum_value":"0.0"
  },
  "category_id":"F&B",
  "related":true,
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization102"
        }
      ],
      "code":"parent103",
      "list":
      [
        {
          "code":"id",
          "value":"CG1104"
        },
        {
          "code":"default105",
          "value":"yes"
        }
      ],
      "code":"child106",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ],
      "code":"veg_nonveg",
      "list":
      [
        ...
      ]
    }
  ]
}
  
```

<sup>101</sup> enum - "veg", "non\_veg", "egg";

<sup>102</sup> enum - "customization", "dynamic\_item", "item" (base item or SKU);

<sup>103</sup> identifies customization group(s) to which this customization belongs;

<sup>104</sup> customization group id;

<sup>105</sup> whether this customization is the default in this customization group (**only for customization groups where min is 1**);

<sup>106</sup> identifies nested customization group(s);

```

    {
      "code":"veg107",
      "value":"yes"
    }
  ]
},
{
  "id":"C2",
  "descriptor":
  {
    "name":"Regular"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"0.0",
    "maximum_value":"0.0"
  },
  "category_id":"F&B",
  "related":true,
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        },
        {
          "code":"default",
          "value":"yes"
        }
      ]
    },
    {
      "code":"child",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    },
    {
      "code":"veg_nonveg",
      "list":
      [
        {
          "code":"veg108",
          "value":"yes"
        }
      ]
    }
  ]
}

```

<sup>107</sup> enum - "veg", "non\_veg", "egg";  
<sup>108</sup> enum - "veg", "non\_veg", "egg";

```

        ]
      ],
    {
      "id": "C3",
      "descriptor": {
        "name": "Grilled Mushrooms"
      },
      "quantity": {
        "available": {
          "count": "99"
        },
        "maximum": {
          "count": "99"
        }
      },
      "price": {
        "currency": "INR",
        "value": "35.0",
        "maximum_value": "35.0"
      },
      "category_id": "F&B",
      "related": true,
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "customization"
            }
          ],
          "code": "parent109",
          "list": [
            {
              "code": "id",
              "value": "CG3"
            },
            {
              "code": "default",
              "value": "yes"
            }
          ]
        },
        {
          "code": "veg_nonveg",
          "list": [
            {
              "code": "veg110",
              "value": "yes"
            }
          ]
        }
      ],
      "offers111: [
        {
          "id": "DISCP60",
          "descriptor": {

```

<sup>109</sup> customization group to which customization belongs; since this example is for: crust (CG1) -> nesting (CG2) -> toppings (CG3), there is no nested customization group here;

<sup>110</sup> enum - "veg", "non\_veg", "egg";

<sup>111</sup> offer definition as per the template defined above;

```

"code":"discount112,
"images113":
[
  "https://sellerNP.com/images/offer2-banner.png"
],
"location_ids":
[
  "L1"
],
"item_ids":
[
  "I1"
],
"time":
{
  "label":"valid",
  "range":
  {
    "start":"2023-06-21T16:00:00.000Z",
    "end":"2023-06-21T23:00:00.000Z"
  }
},
"tags":
[
  {
    "code":"qualifier",
    "list":
    [
      {
        "code":"min_value",
        "value":"159"
      }
    ]
  },
  {
    "code":"benefit",
    "list":
    [
      {
        "code":"value_type",
        "value":percent114
      },
      {
        "code":"value",
        "value":"-60.00"
      },
      {
        "code":"value_cap",
        "value":"-120.00"
      }
    ]
  },
  {
    "code":"meta",
    "list":
    [
      {
        "code":additive115,
        "value":no116
      },
      {
        "code":auto117,
        "value":yes118
      }
    ]
  }
],
{
  "id":"FLAT150",
  "descriptor":

```

<sup>112</sup> offer type - defined in template above;

<sup>113</sup> (optional) banner image from seller;

<sup>114</sup> enum - "percent", "amount";

<sup>115</sup> whether this offer can be applied in addition to other offers;

<sup>116</sup> enum - "yes", "no";

<sup>117</sup> whether this offer is auto-applied as part of cart quote;

<sup>118</sup> enum - "yes", "no";

```
{
  "code": "discount",
  "images": [
    "https://sellerNP.com/images/offer2-banner.png"
  ],
  "location_ids": [
    "L1"
  ],
  "item_ids": [
    "I1"
  ],
  "time": {
    "label": "valid",
    "range": {
      "start": "2023-06-22T16:00:00.000Z",
      "end": "2023-06-22T23:00:00.000Z"
    }
  },
  "tags": [
    {
      "code": "qualifier",
      "list": [
        {
          "code": "min_value",
          "value": "499.00"
        }
      ]
    },
    {
      "code": "benefit",
      "list": [
        {
          "code": "value_type",
          "value": "amount"
        },
        {
          "code": "value",
          "value": "-150.00"
        }
      ]
    },
    {
      "code": "meta",
      "list": [
        {
          "code": "additive",
          "value": "no"
        },
        {
          "code": "auto",
          "value": "yes"
        }
      ]
    }
  ],
  "id": "BUY2GET3",
  "descriptor": {
    "code": "buyXgetY",
    "images": [
      "https://sellerNP.com/images/offer1-banner.png"
    ]
  },
  "location_ids": [
    "L1"
  ],
  "item_ids": [
    "I1"
  ]
}
```

```
[
  "I1"
],
"time":
{
  "label":"valid",
  "range":
  {
    "start":"2023-06-23T16:00:00.000Z",
    "end":"2023-06-23T23:00:00.000Z"
  }
},
"tags":
[
  {
    "code":"qualifier",
    "list":
    [
      {
        "code":"item_count",
        "value":"2"
      }
    ],
    "code":"benefit",
    "list":
    [
      {
        "code":"item_id",
        "value":"I1"
      },
      {
        "code":"item_count",
        "value":"3"
      }
    ],
    "code":"meta",
    "list":
    [
      {
        "code":"additive",
        "value":"no"
      },
      {
        "code":"auto",
        "value":"yes"
      }
    ]
  }
],
{
  "id":"FREEBIE",
  "descriptor":
  {
    "code":"freebie",
    "images":
    [
      "https://sellerNP.com/images/offer3-banner.png"
    ]
  },
  "location_ids":
  [
    "L1"
  ],
  "item_ids":
  [
    "I1"
  ],
  "time":
  {
    "label":"valid",
    "range":
    {
      "start":"2023-06-24T16:00:00.000Z",
      "end":"2023-06-24T23:00:00.000Z"
    }
  }
}
```

```

"tags":
[ {
  "code":"qualifier",
  "list":
  [
    {
      "code":"min_value",
      "value":"598.00"
    }
  },
  {
    "code":"benefit",
    "list":
    [
      {
        "code":"item_count",
        "value":"1"
      },
      {
        "code":"item_id",
        "value":"sku id for extra item"
      },
      {
        "code":"item_value",
        "value":"200.00"
      }
    ]
  },
  {
    "code":"meta",
    "list":
    [
      {
        "code":"additive",
        "value":"no"
      },
      {
        "code":"auto",
        "value":"yes"
      }
    ]
  }
],
"tags":
[ {
  "code":"order_value119",
  "list":
  [
    {
      "code":"min_value120",
      "value":"300.00"
    }
  ],
  {
    "code":"catalog_link121",
    "list":
    [
      {
        "code":"type",
        "value":"inline122"
      },
      {
        "code":"type_value123",
        "value":"https://s3.amazonaws.com/xjhjfsdfs/s-12349.zip"
      }
    ]
  }
}
]

```

<sup>119</sup> for defining order value (e.g. min order value) for provider;

<sup>120</sup> minimum order value for provider (up to 2 decimals);

<sup>121</sup> optional, for catalog refresh using link or inline (default);

<sup>122</sup> option for catalog response, enum - "link" (link to zip file for items array for the provider), "inline" (items array in inline response, which is the default today);

<sup>123</sup> authorized link URL, required only if type = "link"; in this case, items array won't be a part of inline response;

```

    "code":"type_validity124,
    "value":"PT24H"
  },
  {
    "code":"last_update125,
    "value":"2023-05-21T00:00:00Z"
  }
],
{
  "code":"timing",
  "list":
  [
    {
      "code":"type",
      "value":"Order126"
    },
    {
      "code":"location",
      "value": "L1127"
    },
    {
      "code": "day_from",
      "value": "1128"128
    },
    {
      "code": "day_to",
      "value": "5129"129
    },
    {
      "code": "time_from",
      "value": "0900130"130
    },
    {
      "code": "time_to",
      "value": "1100131"131
    }
  ],
  {
    "code": "timing132,
    "list":
    [
      {
        "code": "type",
        "value": "Order"
      },
      {
        "code": "location",
        "value": "L1"
      },
      {
        "code": "day_from",
        "value": "1"
      },
      {
        "code": "day_to",
        "value": "5"
      },
      {
        "code": "time_from",
        "value": "1300"
      },
      {
        "code": "time_to",
        "value": "1530"
      }
    ]
  }
]
}
  
```

<sup>124</sup> authorized link validity from last\_update, required only if type = "link";

<sup>125</sup> timestamp for last update of link (RFC3339), required only if type = "link";

<sup>126</sup> timing for fulfillment type, enum - "Order" (online order processing timings), "Delivery" (order shipment timings, will be same as delivery timings for hyperlocal), "Self-Pickup" (self-pickup timings), "All" (same timing for all fulfillments supported by seller); example shows for following timings: Monday to Friday (0900 - 1100, 1300 - 1530, 1830 - 2130), Saturday to Sunday (1300 - 1600, 1900 - 2300);

<sup>127</sup> location id for provider;

<sup>128</sup> valid value - day of week ("1" - Monday, "7" - Sunday);

<sup>129</sup> valid value - day of week ("1" - Monday, "7" - Sunday), day\_to >= day\_from;

<sup>130</sup> valid value - 24hr format ("0000" to "2359");

<sup>131</sup> valid value - 24hr format ("0000" to "2359"), time\_to >= time\_from;

<sup>132</sup> in case of overlapping store timing e.g. for Monday from 1300 - 1600 and 1500 - 1700, the union of these store timings will be considered (1300 - 1700);

```

    "value":"1530"
  }
},
{
  "code":"timing",
  "list":
  [
    {
      "code":"type",
      "value":"Order"
    },
    {
      "code":"location",
      "value":"L1"
    },
    {
      "code":"day_from",
      "value":"1"
    },
    {
      "code":"day_to",
      "value":"5"
    },
    {
      "code":"time_from",
      "value":"1830"
    },
    {
      "code":"time_to",
      "value":"2130"
    }
  ]
},
{
  "code":"timing",
  "list":
  [
    {
      "code":"type",
      "value":"Order"
    },
    {
      "code":"location",
      "value":"L1"
    },
    {
      "code":"day_from",
      "value":"6"
    },
    {
      "code":"day_to",
      "value":"7"
    },
    {
      "code":"time_from",
      "value":"1300"
    },
    {
      "code":"time_to",
      "value":"1600"
    }
  ]
},
{
  "code":"timing",
  "list":
  [
    {
      "code":"type",
      "value":"Order"
    },
    {
      "code":"location",
      "value":"L1"
    },
    {
      "code":"day_from",
      "value":"6"
    }
  ]
}

```

```

    "code":"day_to",
    "value":"7"
  },
  {
    "code":"time_from",
    "value":"1900"
  },
  {
    "code":"time_to",
    "value":"2300"
  }
],
{
  "code":"timing",
  "list":
  [
    {
      "code":"type",
      "value":"Self-Pickup"
    },
    {
      "code":"location",
      "value":"L1"
    },
    {
      "code":"day_from",
      "value":"1"
    },
    {
      "code":"day_to",
      "value":"7"
    },
    {
      "code":"time_from",
      "value":"1100"
    },
    {
      "code":"time_to",
      "value":"2000"
    }
  ]
},
{
  "code":"timing",
  "list":
  [
    {
      "code":"type",
      "value":"Delivery"
    },
    {
      "code":"location",
      "value":"L1"
    },
    {
      "code":"day_from",
      "value":"1"
    },
    {
      "code":"day_to",
      "value":"7"
    },
    {
      "code":"time_from",
      "value":"1100"
    },
    {
      "code":"time_to",
      "value":"2200"
    }
  ]
},
{
  "code":"close_timing133",
  "list":
  [
  {

```

---

<sup>133</sup> optional - may be provided if store close timing was earlier provided but the store info is being updated thru full refresh;

```
        "code":"location",
        "value":"L1"
    },
    {
        "code":"start",
        "value":"2023-06-03T16:00:00.000Z"
    },
    {
        "code":"end134",
        "value":"2023-06-03T23:59:00.000Z"
    }
]
},
{
    "code":"serviceability135",
    "list":
    [
        {
            "code":"location",
            "value": "L1136"
        },
        {
            "code":"category",
            "value": "F&B"
        },
        {
            "code":"type",
            "value": "10137"
        },
        {
            "code":"val",
            "value": "3"
        },
        {
            "code":"unit",
            "value": "km"
        }
    ]
}
}
```

N.B.

1. /on\_search responses may be paginated by provider, i.e. separate /on\_search response per provider with the same transaction\_id and message\_id as /search;
  2. [Serviceability construct](#) has to be explicitly defined as specified here. Both old construct (radius at provider location) and new construct (by category using radius / pincode / pan-India) will need to be supported until the old construct is deprecated;
  3. Enabling & disabling of providers and out-of-stock items have to be explicitly defined as specified here;

134 optional

<sup>135</sup> serviceability construct is defined for (provider+location+category) at either of these levels - hyperlocal (radius) or intercity (pincodes) or pan-India or **polygon**; every unique combination of (provider+location+category) can have serviceability defined only at one of these levels;

<sup>136</sup> maps to unique location for provider;

<sup>137</sup> enum - "10" (hyperlocal), "11" (intercity), "12" (pan-India), "13" (polygon);

## Catalog (Grocery)

```
{
  "context": {
    "domain": "ONDC:RET10138",
    "country": "IND",
    "city": "std:080",
    "action": "on_search",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:30.000Z"
  },
  "message": {
    "catalog": {
      "bpp/fulfillments": [
        {
          "id": "1",
          "type": "Delivery"
        },
        {
          "id": "2",
          "type": "Self-Pickup"
        },
        {
          "id": "3",
          "type": "Delivery and Self-Pickup"
        }
      ],
      "bpp/descriptor139": {
        "name": "Seller NP",
        "symbol140": "https://sellerNP.com/images/np.png",
        "short_desc": "Seller Marketplace",
        "long_desc": "Seller Marketplace",
        "images": [
          "https://sellerNP.com/images/np.png"
        ],
        "tags": [
          {
            "code": "bpp_terms",
            "list": [
              {
                "code": "np_type",
                "value": "MSN141"
              },
              {
                "code": "accept_bap_terms",
                "value": "Y142"
              },
              {
                "code": "collect_payment143",
                "value": "Y144"
              }
            ]
          }
        ],
        "bpp/providers145: ...
      }
    }
  }
}
```

<sup>138</sup> updated domain namespace is [here](#);

<sup>139</sup> descriptor for seller NP;

<sup>140</sup> logo or image for seller NP;

<sup>141</sup> self-declaration of type of NP, enum - "ISN" (inventory seller), "MSN" (marketplace);

<sup>142</sup> enum - "Y" (yes), "N" (no);

<sup>143</sup> optional - may be provided if seller NP wants to collect payment;

<sup>144</sup> enum - "Y" (yes), "N" (no);

<sup>145</sup> descriptor for seller (merchant) that processes & fulfills orders;

```
[
  {
    "id": "P1146",
    "time": {
      "label": "enable147",
      "timestamp": "2023-06-03T07:00:30.000Z148"
    },
    "fulfillments149": [
      {
        "id": "F1",
        "type": "Delivery",
        "contact150: {
          "phone": "9886098860151",
          "email": "abc@xyz.com"
        }
      },
      {
        "id": "F2",
        "type": "Self-Pickup",
        "contact": {
          "phone": "9886098860",
          "email": "abc@xyz.com"
        }
      },
      {
        "id": "F3",
        "type": "Buyer-Delivery",
        "contact": {
          "phone": "9886098860",
          "email": "abc@xyz.com"
        }
      }
    ],
    "descriptor": {
      "name": "Store 1",
      "symbol": "https://sellerNP.com/images/store1.png",
      "short_desc": "Store 1",
      "long_desc": "Store 1",
      "images": [
        "https://sellerNP.com/images/store1.png"
      ]
    },
    "ttl": "P1D153",
    "locations154: [
      {
        "id": "L1",
        "time": {
          "label": "enable155",
          "timestamp": "2023-06-03T07:30:30.000Z156",
          "days": "1,2,3,4,5,6,7"
        }
      }
    ]
  }
]
```

<sup>146</sup> unique id for provider;

<sup>147</sup> enum - "enable" (default), "disable" (soft delete of provider from buyer NP cache);

<sup>148</sup> timestamp when the snapshot for this provider was generated. Buyer NPs can use this to determine from when to start incremental refresh;

<sup>149</sup> provider level fulfillment options;

<sup>150</sup> contact details for merchant - if merchant is in multiple locations, this will be the contact detail for merchant and contact detail for the storefront (specific location) will be in fulfillment.start;

<sup>151</sup> valid 10 digit (mobile no) or 11 digit no;

<sup>152</sup> email id of merchant or seller NP;

<sup>153</sup> ISO8601 duration format for validity of provider catalog;

<sup>154</sup> locations for provider with unique id for each location;

<sup>155</sup> enum - "enable" (default), "disable" (soft delete of provider location, i.e. warehouse or store, from buyer NP cache - in this case, the serviceability for the store should not be a part of the catalog), "close" (temporary closure of store with the same format for time.range as specified, for incremental refresh, here - only if this event is available at the time of generating the full catalog snapshot), "open" (reopening of store when the store was previously closed for an indefinite time); if store close timing was provided previously and store info is being updated thru "enable", provider.tags.close\_timing may be used to provide the store close timing;

<sup>156</sup> timestamp when the snapshot for location was generated, must be <= Context.timestamp;

```

"schedule":
{
  "holidays157:
  [
    "2023-08-15"
  ],
  "frequency":"PT4H",
  "times":
  [
    "1100",
    "1900"
  ],
  "range":
  {
    "start":"1100",
    "end":"2100"
  }
},
"gps":"12.967555,77.749666",
"address":
{
  "locality158":"Jayanagar",
  "street":"Jayanagar 4th Block",
  "city":"Bengaluru",
  "area_code":"560076",
  "state":"KA"
},
"circle":
{
  "gps":"12.967555,77.749666",
  "radius":
  {
    "unit":"km",
    "value":3
  }
},
"categories":
[
  {
    "id":"V1159",
    "descriptor":
    {
      "name":"Variant Group 1"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"variant_group"
          }
        ],
        "code":"attr160",
        "list":
        [
          {
            "code":"name161",
            "value":"item.quantity.unitized.measure162"
          },
          {
            "code":"seq",
            "value":1
          }
        ]
      }
    ]
  }
]
}
  
```

<sup>157</sup> list of future dated holidays, to be used as per holiday calendar; if no holidays, empty array needs to be passed;

<sup>158</sup> locality name;

<sup>159</sup> unique id for custom category (across customization group, custom menu, variant group); alphanumeric & up to 12 characters;

<sup>160</sup> defines variant attributes i.e. attribute & sequence; multiple variant attributes can be defined in multiple attr blocks;

<sup>161</sup> namespaced attribute, above example means attribute(s) in "quantity.unitized" for an item;

<sup>162</sup> means concatenation of item.quantity.unitized.measure.value and item.quantity.unitized.measure.unit e.g. "1 kilogram", "2 kilogram", "5 kilogram";

```

        },
      ],
      "items": [
        {
          "id": "I1",
          "time": {
            "label": "enable163",
            "timestamp": "2023-06-03T07:30:00.000Z164"
          },
          "parent_item_id": "V1165",
          "descriptor": {
            "name": "Plain Atta",
            "code166: "1:XXXXXXXXXXXXXX",
            "symbol": "https://sellerNP.com/images/i1.png",
            "short_desc": "Plain Atta",
            "long_desc": "Plain Atta",
            "images167: [
              "https://sellerNP.com/images/i1.png"
            ]
          },
          "quantity": {
            "unitized168: {
              "measure": {
                "unit": "kilogram169",
                "value": "1"
              }
            },
            "available": {
              "count170: "99"
            },
            "maximum": {
              "count171: "99"
            }
          },
          "price": {
            "currency": "INR",
            "value": "65.00",
            "maximum_value": "65.0"
          },
          "category_id": "Foodgrains172",
          "fulfillment_id": "F1",
          "location_id": "L1",
          "@ondc/org/returnable": true173,
          "@ondc/org/cancellable": true174,
          "@ondc/org/return_window": "PT1H",
          "@ondc/org/seller_pickup_return175: true,
          "@ondc/org/time_to_ship": "PT45M",
          "@ondc/org/available_on_cod": false,
        }
      ]
    }
  ]
}

```

<sup>163</sup> enum - "enable", "disable";

<sup>164</sup> timestamp for item event;

<sup>165</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

<sup>166</sup> unique code for item which will be in this format - "type:code" where type is 1 - EAN, 2 - ISBN, 3 - GTIN, 4 - HSN, 5 - others;

<sup>167</sup> while item images ensures better discoverability & enhances user experience, if no image is available, seller NPs shouldn't send image (instead of sending placeholder image);

<sup>168</sup> net quantity per unit;

<sup>169</sup> enum - "unit", "dozen", "kilogram", "tonne", "litre", "millilitre" (list [here](#));

<sup>170</sup> stringified integer value - default value for item in stock;

<sup>171</sup> stringified integer value - cap per order (if exists) or default value;

<sup>172</sup> enum from [here](#):

<sup>173</sup> should default to true except for specific make-to-order items;

<sup>174</sup> should default to true except for specific make-to-order items;

<sup>175</sup> whether seller is responsible for pick up of item for return;

```

"@ondc/org/contact_details_consumer_care176": "Ramesh,ramesh@abc.com,18004254444",
"@ondc/org/statutory_reqs_packaged_commodities177":
{
  "manufacturer_or_packer_name":"ITC",
  "manufacturer_or_packer_address":"ITC Quality Care Cell,P.O Box No.592,Bangalore-560005",
  "common_or_generic_name_of_commodity":"Ashirwad Atta",
  "month_year_of_manufacture_packing_import":"01/2023"
},
"@ondc/org/statutory_reqs_prepackaged_food178":
{
  "nutritional_info":"Energy(KCal)-(per 100kg) 420,(per serving 50g)250;Protein(g)-(per 100kg) 12,(per serving 50g) 6",
  "additives_info":"Preservatives,Artificial Colours",
  "brand_owner_FSSAI_license_no":"12345678901234",
  "other_FSSAI_license_no":"12345678901234",
  "importer_FSSAI_license_no":"12345678901234"
},
"tags":
[
  {
    "code":"origin179",
    "list":
      [
        {
          "code":"country",
          "value":"IND180"
        }
      ]
  },
  {
    "code":"image181",
    "list":
      [
        {
          "code":"type",
          "value":"back_image"
        },
        {
          "code":"url",
          "value":"https://sellerNP.com/images/i1_back_image.png"
        }
      ]
  },
  {
    "code":"veg_nonveg182",
    "list":
      [
        {
          "code":"veg183",
          "value":"yes"
        }
      ]
  }
],
{
  "id":"I2",
  "parent_item_id184":"V1",
  "descriptor":
  {
    "name":"Plain Atta",
    "code185":"1XXXXXXXXXXXXX",
    "symbol":"https://sellerNP.com/images/i2.png",
    "short_desc":"Plain Atta",
    "long_desc":"Plain Atta",
    "images":
    [

```

<sup>176</sup> valid contact details exactly in this format - name, email, contact no;

<sup>177</sup> mapping of category to attribute key is defined [here](#);

<sup>178</sup> mapping of category to attribute key is defined [here](#);

<sup>179</sup> identifies origin of item i.e. country, state, etc.;

<sup>180</sup> ISO 3166-1 alpha-3 code;

<sup>181</sup> images for statutory requirements - optional;

<sup>182</sup> optional, only as applicable;

<sup>183</sup> enum - "veg", "non\_veg";

<sup>184</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

<sup>185</sup> optional; unique code for item which will be in this format - "type:code" where type is 1 - EAN, 2 - ISBN, 3 - GTIN, 4 - HSN, 5 - Others;

```

    "https://sellerNP.com/images/i2.png"
  ],
  "quantity":
  {
    "unitized":
    {
      "measure":
      {
        "unit":"kilogram186",
        "value":"2"
      }
    },
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"125.00",
    "maximum_value":"125.0"
  },
  "category_id":"Foodgrains187,
  "fulfillment_id":"F1",
  "location_id":"L1",
  "@ondc/org/returnable":true,
  "@ondc/org/cancellable":true,
  "@ondc/org/return_window":"PT1H",
  "@ondc/org/seller_pickup_return":true,
  "@ondc/org/time_to_ship":"PT45M",
  "@ondc/org/available_on_cod":false,
  "@ondc/org/contact_details_consumer_care188: "Ramesh,ramesh@abc.com,18004254444",
  "@ondc/org/statutory_reqs_packaged_commodities189":
  {
    "manufacturer_or_packer_name":"ITC",
    "manufacturer_or_packer_address":"ITC Quality Care Cell,P.O Box No.592,Bangalore-560005",
    "common_or_generic_name_of_commodity":"Ashirwad Atta",
    "month_year_of_manufacture_packing_import":"01/2023"
  },
  "@ondc/org/statutory_reqs_prepackaged_food190":
  {
    "nutritional_info":"Energy(KCal)-(per 100kg) 420,(per serving 50g)250;Protein(g)-(per 100kg) 12,(per serving 50g) 6",
    "additives_info":"Preservatives,Artificial Colours",
    "brand_owner_FSSAI_license_no":"12345678901234",
    "other_FSSAI_license_no":"12345678901234",
    "importer_FSSAI_license_no":"12345678901234"
  },
  "tags":
  [
    {
      "code":"origin191",
      "list":
      [
        {
          "code":"country",
          "value":"IND192"
        }
      ]
    },
    {
      "code":"veg_nonveg193",
      "list":
      [
        {
          ...
        }
      ]
    }
  ]
}

```

<sup>186</sup> enum - "unit", "dozen", "kilogram", "tonne", "litre", "millilitre" (list [here](#));

<sup>187</sup> enum from [here](#);

<sup>188</sup> valid contact details exactly in this format - name, email, contact no;

<sup>189</sup> mapping of category to attribute key is defined [here](#);

<sup>190</sup> mapping of category to attribute key is defined [here](#);

<sup>191</sup> identifies origin of item i.e. country, state, etc.;

<sup>192</sup> ISO 3166-1 alpha-3 code;

<sup>193</sup> optional, only as applicable;

```

    "code":"veg194",
    "value":"yes"
  }
},
{
  "id":"I3",
  "parent_item_id":"V1195",
  "descriptor":
  {
    "name":"Plain Atta",
    "code196:"1XXXXXXXXXXXXX",
    "symbol":"https://sellerNP.com/images/i3.png",
    "short_desc":"Plain Atta",
    "long_desc":"Plain Atta",
    "images":
    [
      "https://sellerNP.com/images/i3.png"
    ],
    "quantity":
    {
      "unitized":
      {
        "measure":
        {
          "unit":"kilogram197",
          "value":"5"
        }
      }
    },
    "available":
    {
      "count":99
    },
    "maximum":
    {
      "count":99
    }
  },
  "price":
  {
    "currency":"INR",
    "value":300.00,
    "maximum_value":300.0
  },
  "category_id":"Foodgrains198",
  "fulfillment_id":"F1",
  "location_id":"L1",
  "@ondc/org/returnable":true,
  "@ondc/org/cancellable":true,
  "@ondc/org/return_window":"PT1H",
  "@ondc/org/seller_pickup_return":true,
  "@ondc/org/time_to_ship":"PT45M",
  "@ondc/org/available_on_cod":false,
  "@ondc/org/contact_details_consumer_care":"Ramesh.ramesh@abc.com,18004254444",
  "@ondc/org/statutory_reqs_packaged_commodities199":
  {
    "manufacturer_or_packer_name":ITC",
    "manufacturer_or_packer_address":ITC Quality Care Cell,P.O Box No.592,Bangalore-560005",
    "common_or_generic_name_of_commodity":Ashirwad Atta",
    "month_year_of_manufacture_packing_import":01/2023"
  },
  "@ondc/org/statutory_reqs_prepackaged_food200":
  {
    "nutritional_info":Energy(KCal)-(per 100kg) 420,(per serving 50g)250;Protein(g)-(per 100kg) 12,(per serving 50g) 6",
    "additives_info":Preservatives,Artificial Colours",
    "brand_owner_FSSAI_license_no":12345678901234",
  }
}

```

<sup>194</sup> enum - "veg", "non\_veg", "egg";

<sup>195</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

<sup>196</sup> optional; unique code for item which will be in this format - "type:code" where type is 1 - EAN, 2 - ISBN, 3 - GTIN, 4 - HSN, 5 - Others;

<sup>197</sup> enum - "unit", "dozen", "kilogram", "tonne", "litre", "millilitre" (list [here](#));

<sup>198</sup> enum from [here](#);

<sup>199</sup> mapping of category to attribute key is defined [here](#);

<sup>200</sup> mapping of category to attribute key is defined [here](#);

```

    "other_FSSAI_license_no":"12345678901234",
    "importer_FSSAI_license_no":"12345678901234"
},
"tags":
[
{
  "code":"origin201",
  "list":
  [
    {
      "code":"country",
      "value":"IND202"
    }
  ],
  {
    "code":"veg_nonveg203",
    "list":
    [
      {
        "code":"veg204",
        "value":"yes"
      }
    ]
  }
],
"creds205":
[
{
  "id206":"ESG-12345678",
  "descriptor207":
  {
    "code":"ESG-12345678",
    "short_desc":"ESG-12345678-FF",
    "name":"Dun & Bradstreet ESG Badge No."
  },
  "url208":"https://abcd.cdn.com/images/badge-img",
  "tags":
  [
  {
    "code":"verification",
    "list":
    [
      {
        "code":"verify_url",
        "value":"https://abcd.dnb.com/verify?id=ESG-12345678"
      },
      {
        "code":"valid_from",
        "value":"2023-06-03T00:00:00:000Z"
      },
      {
        "code":"valid_to209",
        "value":"2024-06-03T23:59:59:999Z"
      }
    ]
  }
],
"offers210":
[
{
  "id":"DISCP60",
  "descriptor":
  {

```

<sup>201</sup> identifies origin of item i.e. country, state, etc.;

<sup>202</sup> ISO 3166-1 alpha-3 code;

<sup>203</sup> optional, only as applicable;

<sup>204</sup> enum - "veg", "non\_veg", "egg";

<sup>205</sup> credentials for provider (optional);

<sup>206</sup> globally identifiable identity or unique ID provided by seller app; mandatory if creds are provided;

<sup>207</sup> code is tag, short\_desc is subtag for the credential;

<sup>208</sup> display URL for credential, optional;

<sup>209</sup> optional, only if available;

<sup>210</sup> offer definition as per the template defined above;

```

"code":"discount211,
"images":
[
  "https://sellerNP.com/images/offer2-banner.png"
],
"location_ids":
[
  "L1"
],
"item_ids":
[
  "I1"
],
"time":
{
  "label":"valid",
  "range":
  {
    "start":"2023-06-21T16:00:00.000Z",
    "end":"2023-06-21T23:00:00.000Z"
  }
},
"tags":
[
  {
    "code":"qualifier",
    "list":
    [
      {
        "code":"min_value",
        "value":"159.00"
      }
    ]
  },
  {
    "code":"benefit",
    "list":
    [
      {
        "code":"value_type",
        "value":"percent"
      },
      {
        "code":"value",
        "value":"-60.00"
      },
      {
        "code":"value_cap",
        "value":"-120.00"
      }
    ]
  },
  {
    "code":"meta",
    "list":
    [
      {
        "code":"additive212",
        "value":"no213"
      },
      {
        "code":"auto214",
        "value":"yes215"
      }
    ]
  }
],
{
  "id":"FLAT150",
  "descriptor":
  {
    "code":"discount",

```

<sup>211</sup> offer type - defined in template above;

<sup>212</sup> whether this offer can be applied in addition to other offers;

<sup>213</sup> enum - "yes", "no";

<sup>214</sup> whether this offer is auto-applied as part of cart quote;

<sup>215</sup> enum - "yes", "no";

```

  "images": [
    [
      "https://sellerNP.com/images/offer2-banner.png"
    ]
  },
  "location_ids": [
    [
      "L1"
    ],
    "item_ids": [
      [
        "I1"
      ],
      "time": {
        "label": "valid",
        "range": {
          "start": "2023-06-22T16:00:00.000Z",
          "end": "2023-06-22T23:00:00.000Z"
        }
      },
      "tags": [
        [
          {
            "code": "qualifier",
            "list": [
              [
                {
                  "code": "min_value",
                  "value": "499.00"
                }
              ]
            },
            {
              "code": "benefit",
              "list": [
                [
                  {
                    "code": "value_type",
                    "value": "amount"
                  },
                  {
                    "code": "value",
                    "value": "-150.00"
                  }
                ]
              },
              {
                "code": "meta",
                "list": [
                  [
                    {
                      "code": "additive",
                      "value": "no"
                    },
                    {
                      "code": "auto",
                      "value": "yes"
                    }
                  ]
                ]
              }
            ],
            "id": "BUY2GET3",
            "descriptor": {
              "code": "buyXgetY",
              "images": [
                "https://sellerNP.com/images/offer1-banner.png"
              ]
            },
            "location_ids": [
              [
                "L1"
              ],
              "item_ids": [
                [
                  "I1"
                ]
              ]
            ]
          }
        ]
      ]
    ]
  ]
}

```

```

],
"time":
{
  "label":"valid",
  "range":
  {
    "start":"2023-06-23T16:00:00.000Z",
    "end":"2023-06-23T23:00:00.000Z"
  }
},
"tags":
[
  {
    "code":"qualifier",
    "list":
    [
      {
        "code":"item_count",
        "value":"2"
      }
    ],
    {
      "code":"benefit",
      "list":
      [
        {
          "code":"item_count",
          "value":"3"
        }
      ]
    },
    {
      "code":"meta",
      "list":
      [
        {
          "code":"additive",
          "value":"no"
        },
        {
          "code":"auto",
          "value":"yes"
        }
      ]
    }
  },
  {
    "id":"FREEBIE",
    "descriptor":
    {
      "code":"freebie",
      "images":
      [
        "https://sellerNP.com/images/offer3-banner.png"
      ]
    },
    "location_ids":
    [
      "L1"
    ],
    "item_ids":
    [
      "I1"
    ],
    "time":
    {
      "label":"valid",
      "range":
      {
        "start":"2023-06-24T16:00:00.000Z",
        "end":"2023-06-24T23:00:00.000Z"
      }
    },
    "tags":
    [
      {
        "code":"qualifier",
        "list":
        [

```

```

    {
      "code":"min_value",
      "value":"598.00"
    }
  ],
  {
    "code":"benefit",
    "list":
    [
      {
        "code":"item_count",
        "value":"1"
      },
      {
        "code":"item_id",
        "value":"sku id for extra item"
      },
      {
        "code":"item_value",
        "value":"200.00"
      }
    ],
    {
      "code":"meta",
      "list":
      [
        {
          "code":"additive",
          "value":"no"
        },
        {
          "code":"auto",
          "value":"yes"
        }
      ]
    }
  ],
  "tags":
  [
    {
      "code":"order_value216",
      "list":
      [
        {
          "code":"min_value217",
          "value":"300.00"
        }
      ]
    },
    {
      "code":"catalog_link218",
      "list":
      [
        {
          "code":"type",
          "value":"inline219"
        },
        {
          "code":"type_value220",
          "value":"https://s3.amazonaws.com/x-12349.zip"
        },
        {
          "code":"type_validity221",
          "value":"PT24H"
        }
      ]
    }
  ]
}

```

<sup>216</sup> optional, for defining order value (e.g. min order value) for provider;

<sup>217</sup> minimum order value for provider (up to 2 decimals);

<sup>218</sup> option for catalog response using link or inline (default);

<sup>219</sup> enum - "link" (link to zip file for items array for the provider), "inline" (items array in inline response, which is the default today);

<sup>220</sup> authorized link URL, required only if type = "link"; in this case, items array won't be a part of inline response;

<sup>221</sup> authorized link validity from last\_update, required only if type = "link";

```

    "code":"last_update222,
    "value":"2023-05-21T00:00:00:000Z"
  }
},
{
  "code":"timing",
  "list":
  [
    {
      "code":"type",
      "value":"Order223"
    },
    {
      "code":"location",
      "value":"L1224"
    },
    {
      "code":"day_from",
      "value":1225
    },
    {
      "code":"day_to",
      "value":7226
    },
    {
      "code":"time_from",
      "value":0000227
    },
    {
      "code":"time_to",
      "value":2359228
    }
  ]
},
{
  "code":"timing",
  "list":
  [
    {
      "code":"type",
      "value":"Self-Pickup"
    },
    {
      "code":"location",
      "value":L1"
    },
    {
      "code":"day_from",
      "value":1"
    },
    {
      "code":"day_to",
      "value":7"
    },
    {
      "code":"time_from",
      "value":1100"
    },
    {
      "code":"time_to",
      "value":2000"
    }
  ]
},
{
  "code":"timing",
  "list":
  [

```

<sup>222</sup> timestamp for last update of link (RFC3339), required only if type = "link";

<sup>223</sup> timing for fulfillment type, enum - "Order" (online order processing timings), "Delivery" (order shipment timings, will be same as delivery timings for hyperlocal), "Self-Pickup" (self-pickup timings); example shows store open 24x7: Monday to Sunday (0000 - 2359);

<sup>224</sup> location id for provider;

<sup>225</sup> valid value - day of week ("1" - Monday, "7" - Sunday);

<sup>226</sup> valid value - day of week ("1" - Monday, "7" - Sunday), day\_to >= day\_from;

<sup>227</sup> valid value - 24hr format ("0000" to "2359");

<sup>228</sup> valid value - 24hr format ("0000" to "2359"), time\_to >= time\_from;

```
{
  {
    "code": "type",
    "value": "Delivery"
  },
  {
    "code": "location",
    "value": "L1"
  },
  {
    "code": "day_from",
    "value": "1"
  },
  {
    "code": "day_to",
    "value": "7"
  },
  {
    "code": "time_from",
    "value": "1100"
  },
  {
    "code": "time_to",
    "value": "2200"
  }
],
{
  "code": "close_timing"229,
  "list":
  [
    {
      "code": "location",
      "value": "L1"
    },
    {
      "code": "start",
      "value": "2023-06-03T16:00:00.000Z"
    },
    {
      "code": "end"230,
      "value": "2023-06-03T23:59:00.000Z"
    }
  ]
},
{
  "code": "serviceability"231,
  "list":
  [
    {
      "code": "location",
      "value": "L1"232
    },
    {
      "code": "category",
      "value": "Foodgrains"
    },
    {
      "code": "type",
      "value": "10"233
    },
    {
      "code": "val",
      "value": "3"
    },
    {
      "code": "unit",
      "value": "km"
    }
  ]
}
}
```

<sup>229</sup> optional - may be provided if store close timing was earlier provided but the store info is being updated thru full refresh;

<sup>230</sup> optional

<sup>231</sup> serviceability construct is defined for (provider+location+category) at either of these levels - hyperlocal (radius) or intercity (pincodes) or pan-India or polygon; every unique combination of (provider+location+category) can have serviceability defined only at one of these levels;

<sup>232</sup> maps to unique location for provider;

<sup>233</sup> enum - "10" (hyperlocal), "11" (intercity), "12" (pan-India), "**13**" (polygon);

]  
}  
}

**N.B.**

1. Above payload for grocery shows 3 different varieties of Atta grouped together using a variant definition. Buyer NP may choose to render either by grouping as variant or as individual SKUs;
2. /on\_search responses may be paginated by provider, i.e. separate /on\_search response per provider with the same transaction\_id and message\_id as /search;
3. [Serviceability construct](#) has to be explicitly defined as specified here. Both old construct (radius at provider location) and new construct (by category using radius / pincode / pan-India) will need to be supported until the old construct is deprecated;
4. Enabling & disabling of providers and out-of-stock items have to be explicitly defined as specified here;

## Catalog (Home & Kitchen)

```
{
  "context": {
    "domain": "ONDC:RET16234",
    "country": "IND",
    "city": "std:080",
    "action": "on_search",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:30.000Z"
  },
  "message": {
    "catalog": {
      "bpp/fulfillments": [
        {
          "id": "1",
          "type": "Delivery"
        },
        {
          "id": "2",
          "type": "Self-Pickup"
        },
        {
          "id": "3",
          "type": "Delivery and Self-Pickup"
        }
      ],
      "bpp/descriptor235": {
        "name": "Seller NP",
        "symbol236: "https://sellerNP.com/images/np.png",
        "short_desc": "Seller Marketplace",
        "long_desc": "Seller Marketplace",
        "images": [
          "https://sellerNP.com/images/np.png"
        ],
        "tags": [
          {
            "code": "bpp_terms",
            "list": [
              {
                "code": "np_type",
                "value": "MSN237"
              },
              {
                "code": "accept_bap_terms",
                "value": "Y238"
              },
              {
                "code": "collect_payment239",
                "value": "Y240"
              }
            ]
          }
        ],
        "bpp/providers241: "
      }
    }
  }
}
```

<sup>234</sup> updated domain namespace is [here](#);

<sup>235</sup> descriptor for seller NP;

<sup>236</sup> logo or image for seller NP;

<sup>237</sup> self-declaration of type of NP, enum - "ISN" (inventory seller), "MSN" (marketplace);

<sup>238</sup> enum - "Y" (yes), "N" (no);

<sup>239</sup> optional - may be provided if seller NP wants to collect payment;

<sup>240</sup> enum - "Y" (yes), "N" (no);

<sup>241</sup> descriptor for seller (merchant) that processes & fulfills orders;

```
[
  {
    "id": "P1242",
    "time": {
      "label": "enable243",
      "timestamp": "2023-06-03T07:00:30.000Z244"
    },
    "fulfillments245":
    [
      {
        "id": "F1",
        "type": "Delivery",
        "contact246":
        {
          "phone": "9886098860247",
          "email": "abc@xyz.com"
        }
      },
      {
        "id": "F2",
        "type": "Self-Pickup",
        "contact":
        {
          "phone": "9886098860",
          "email": "abc@xyz.com"
        }
      },
      {
        "id": "F3",
        "type": "Buyer-Delivery",
        "contact":
        {
          "phone": "9886098860",
          "email": "abc@xyz.com"
        }
      }
    ],
    "descriptor":
    {
      "name": "Store 1",
      "symbol": "https://sellerNP.com/images/store1.png",
      "short_desc": "Store 1",
      "long_desc": "Store 1",
      "images":
      [
        "https://sellerNP.com/images/store1.png"
      ]
    },
    "ttl": "P1D249",
    "locations250":
    [
      {
        "id": "L1",
        "time": {
          "label": "enable251",
          "timestamp": "2023-06-03T07:30:30.000Z252",
          "days": "1,2,3,4,5,6,7"
        }
      }
    ]
  }
]
```

<sup>242</sup> unique id for provider;

<sup>243</sup> enum - "enable" (default), "disable" (soft delete of provider from buyer NP cache);

<sup>244</sup> timestamp when the snapshot for this provider was generated. Buyer NPs can use this to determine from when to start incremental refresh;

<sup>245</sup> provider level fulfillment options;

<sup>246</sup> contact details for merchant - if merchant is in multiple locations, this will be the contact detail for merchant and contact detail for the storefront (specific location) will be in fulfillment.start;

<sup>247</sup> valid 10 digit (mobile no) or 11 digit no;

<sup>248</sup> email id of merchant or seller NP;

<sup>249</sup> ISO8601 duration format for validity of provider catalog;

<sup>250</sup> locations for provider with unique id for each location;

<sup>251</sup> enum - "enable" (default), "disable" (soft delete of provider location, i.e. warehouse or store, from buyer NP cache - in this case, the serviceability for the store should not be a part of the catalog), "close" (temporary closure of store with the same format for time.range as specified, for incremental refresh, [here](#) - only if this event is available at the time of generating the full catalog snapshot), "open" (reopening of store when the store was previously closed for an indefinite time); if store close timing was provided previously and store info is being updated thru "enable", provider.tags.close\_timing may be used to provide the store close timing;

<sup>252</sup> timestamp when the snapshot for location was generated, must be <= Context.timestamp;

```

"schedule":
{
  "holidays253:
  [
    "2023-08-15"
  ],
  "frequency":"PT4H",
  "times":
  [
    "1100",
    "1900"
  ],
  "range":
  {
    "start":"1100",
    "end":"2100"
  }
},
"gps":"12.967555,77.749666",
"address":
{
  "locality254":"Jayanagar",
  "street":"Jayanagar 4th Block",
  "city":"Bengaluru",
  "area_code":"560076",
  "state":"KA"
},
"circle":
{
  "gps":"12.967555,77.749666",
  "radius":
  {
    "unit":"km",
    "value":3
  }
}
],
"items":
[
  {
    "id":"I1",
    "time":
    {
      "label":"enable255",
      "timestamp":"2023-06-03T07:30:00.000Z256"
    },
    "descriptor":
    {
      "name":"Satin Double Bedsheet with Two Pillow Covers",
      "code257":1:XXXXXXXXXXXX,
      "symbol":"https://cdn.sellerNP.com/sellers/HANTEX/HAN2/1.jpg",
      "long_desc":"Hantex | Satin Double Bedsheet with Two Pillow Covers | Vertical Stripe Bedsheet | Horizontal Stripe Pillow Cover | Colour - Ochre, Fir Green & Pearl Beige | Viscose Rayon - Cotton Blend | Hantex | Handloom | Kerala Handcrafted Fabric | Kerala Kaithari",
      "short_desc":"Satin Double Bedsheet with Two Pillow Covers | Vertical Stripe Bedsheet | Horizontal Stripe Pillow Cover | Colour - Ochre, Fir Green & Pearl Beige",
      "images":[
        "https://cdn.sellerNP.com/sellers/HANTEX/HAN2/1.jpg"
      ]
    },
    "quantity":
    {
      "unitized":
      {
        "measure":
        {
          "unit":unit258,
          "value":"3"
        }
      }
    },
    "available":
  }
]

```

<sup>253</sup> list of future dated holidays, to be used as per holiday calendar; if no holidays, empty array needs to be passed;

<sup>254</sup> locality name;

<sup>255</sup> enum - "enable", "disable";

<sup>256</sup> timestamp for item event;

<sup>257</sup> unique code for item which will be in this format - "type:code" where type is 1 - EAN, 2 - ISBN, 3 - GTIN, 4 - HSN, 5 - others;

<sup>258</sup> enum - "unit", "dozen", "kilogram", "tonne", "litre", "millilitre" (list [here](#));

```

{
  "count259":"99"
},
"maximum":
{
  "count260":"99"
}
},
"price":
{
  "currency":"INR",
  "value":"2808.00",
  "maximum_value":"2808.0"
},
"category_id":"Home Furnishings261",
"fulfillment_id":"F1",
"location_id":"L1",
"@ondc/org/returnable":true262,
"@ondc/org/cancellable":true263,
"@ondc/org/return_window":"PT1H",
"@ondc/org/seller_pickup_return264:true,
"@ondc/org/time_to_ship":"PT45M",
"@ondc/org/available_on_cod":false,
"@ondc/org/contact_details_consumer_care265: "Ramesh,ramesh@abc.com,18004254444",
"@ondc/org/statutory_reqs_packaged_commodities266:
{
  "manufacturer_or_packer_name":"HANTEX",
  "manufacturer_or_packer_address":"Hantex Head office, Oottukuzhi, Thiruvananthapuram",
  "common_or_generic_name_of_commodity":"Bedsheet",
  "month_year_of_manufacture_packing_import":"01/2023"
},
"tags":
[
  {
    "code":"origin267",
    "list":
    [
      {
        "code":"country",
        "value":"IND268"
      }
    ],
    "code":"image269",
    "list":
    [
      {
        "code":"type",
        "value":"back_image"
      },
      {
        "code":"url",
        "value":"https://sellerNP.com/images/i1_back_image.png"
      }
    ],
    "code":"attribute270",
    "list":
    [
      {
        "code":"brand",
        "value":"Hiyanshi"
      },

```

<sup>259</sup> stringified integer value - default value for item in stock;

<sup>260</sup> stringified integer value - cap per order (if exists) or default value;

<sup>261</sup> enum from [here](#);

<sup>262</sup> should default to true except for specific make-to-order items;

<sup>263</sup> should default to true except for specific make-to-order items;

<sup>264</sup> whether seller is responsible for pick up of item for return;

<sup>265</sup> valid contact details exactly in this format - name, email, contact no;

<sup>266</sup> mapping of category to attribute key is defined [here](#);

<sup>267</sup> identifies origin of item i.e. country, state, etc.;

<sup>268</sup> ISO 3166-1 alpha-3 code;

<sup>269</sup> images for statutory requirements - optional;

<sup>270</sup> item attributes defined [here](#) (**mapping of attributes to keys e.g "Brand" => "brand"**) - populating with valid values will enable better discoverability on buyer NPs, suggestive enums [here](#);

```

    {
      "code":"colour",
      "value":"#000000"
    },
    {
      "code":"material",
      "value":"cotton"
    }
  ]
},
"creds271":
[
  {
    "id272":"ESG-12345678",
    "descriptor273":
    {
      "code":"ESG-12345678",
      "short_desc":"ESG-12345678-FF",
      "name":"Dun & Bradstreet ESG Badge No."
    },
    "url274":"https://abcd.cdn.com/images/badge-img",
    "tags":
    [
      {
        "code":"verification",
        "list":
        [
          {
            "code":"verify_url",
            "value":"https://abcd.dnb.com/verify?id=ESG-12345678"
          },
          {
            "code":"valid_from",
            "value":"2023-06-03T00:00:00:000Z"
          },
          {
            "code":"valid_to275",
            "value":"2024-06-03T23:59:59:999Z"
          }
        ]
      }
    ]
  },
  "tags":
  [
    {
      "code":"order_value276",
      "list":
      [
        {
          "code":"min_value277",
          "value":2000.00
        }
      ],
      "code":"catalog_link278",
      "list":
      [
        {
          "code":"type",
          "value":inline279
        }
      ]
    }
  ]
}

```

<sup>271</sup> credentials for provider (optional);

<sup>272</sup> globally identifiable identity or unique ID provided by seller app; mandatory if creds are provided;

<sup>273</sup> code is tag, short\_desc is subtag for the credential;

<sup>274</sup> display URL for credential, optional;

<sup>275</sup> optional, only if available;

<sup>276</sup> for defining order value (e.g. min order value) for provider;

<sup>277</sup> minimum order value for provider (up to 2 decimals);

<sup>278</sup> option for catalog response using link or inline (default);

<sup>279</sup> enum - "link" (link to zip file for items array for the provider), "inline" (items array in inline response, which is the default today);

```

    "code":"type_value280",
    "value":"https://s3.amazonaws.com/x-12349.zip"
  },
  {
    "code":"type_validity281",
    "value":"PT24H"
  },
  {
    "code":"last_update282",
    "value":"2023-05-21T00:00:00Z"
  }
],
{
  "code":"timing",
  "list":
  [
    {
      "code":"type",
      "value":"Order283"
    },
    {
      "code":"location",
      "value":"L1284"
    },
    {
      "code":"day_from",
      "value":1285
    },
    {
      "code":"day_to",
      "value":7286
    },
    {
      "code":"time_from",
      "value":0000287
    },
    {
      "code":"time_to",
      "value":2359288
    }
  ],
  {
    "code":"timing",
    "list":
    [
      {
        "code":"type",
        "value":"Self-Pickup"
      },
      {
        "code":"location",
        "value":L1
      },
      {
        "code":"day_from",
        "value":1
      },
      {
        "code":"day_to",
        "value":7
      },
      {
        "code":"time_from",
        "value":1100
      }
    ]
  }
],
{
  "code":"timing",
  "list":
  [
    {
      "code":"type",
      "value":"Delivery289" (order shipment timings)
    },
    {
      "code":"location",
      "value":L1
    },
    {
      "code":"day_from",
      "value":1
    },
    {
      "code":"day_to",
      "value":7
    },
    {
      "code":"time_from",
      "value":0000
    },
    {
      "code":"time_to",
      "value":2359
    }
  ]
}
  
```

<sup>280</sup> authorized link URL, required only if type = "link"; in this case, items array won't be a part of inline response;

<sup>281</sup> authorized link validity from last\_update, required only if type = "link";

<sup>282</sup> timestamp for last update of link (RFC3339), required only if type = "link";

<sup>283</sup> timing for fulfillment type, enum - "Order" (online order processing timings), "Delivery" (order shipment timings, will be same as delivery timings for hyperlocal), "Self-Pickup" (self-pickup timings); example shows store open 24x7: Monday to Sunday (0000 - 2359);

<sup>284</sup> location id for provider;

<sup>285</sup> valid value - day of week ("1" - Monday, "7" - Sunday);

<sup>286</sup> valid value - day of week ("1" - Monday, "7" - Sunday), day\_to >= day\_from;

<sup>287</sup> valid value - 24hr format ("0000" to "2359");

<sup>288</sup> valid value - 24hr format ("0000" to "2359"), time\_to >= time\_from;

```

    {
      "code":"time_to",
      "value":"2000"
    }
  ],
  {
    "code":"timing",
    "list":
    [
      {
        "code":"type",
        "value":"Delivery"
      },
      {
        "code":"location",
        "value":"L1"
      },
      {
        "code":"day_from",
        "value":"1"
      },
      {
        "code":"day_to",
        "value":"7"
      },
      {
        "code":"time_from",
        "value":"1100"
      },
      {
        "code":"time_to",
        "value":"2200"
      }
    ]
  },
  {
    "code":"serviceability289",
    "list":
    [
      {
        "code":"location",
        "value":L1290
      },
      {
        "code":"category",
        "value":"Home Furnishings"
      },
      {
        "code":"type",
        "value":12291
      },
      {
        "code":"val",
        "value":"IND"
      },
      {
        "code":"unit",
        "value":"country"
      }
    ]
  }
}

```

<sup>289</sup> serviceability construct is defined for (provider+location+category) at either of these levels - hyperlocal (radius) or intercity (pincodes) or pan-India; every unique combination of (provider+location+category) can have serviceability defined only at one of these levels;

<sup>290</sup> maps to unique location for provider;

<sup>291</sup> enum - "10" (hyperlocal), "11" (intercity), "12" (pan-India);

## Catalog (Health & Wellness)

```
{
  "context": {
    "domain": "ONDC:RET18",
    "country": "IND",
    "city": "std:080",
    "action": "on_search",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:30.000Z"
  },
  "message": {
    "catalog": {
      "bpp/fulfillments": [
        [
          {
            "id": "1",
            "type": "Delivery"
          },
          {
            "id": "2",
            "type": "Self-Pickup"
          },
          {
            "id": "3",
            "type": "Delivery and Self-Pickup"
          }
        ],
        "bpp/descriptor292": {
          "name": "Seller NP",
          "symbol293: "https://sellerNP.com/images/np.png",
          "short_desc": "Seller Marketplace",
          "long_desc": "Seller Marketplace",
          "images": [
            "https://sellerNP.com/images/np.png"
          ],
          "tags": [
            [
              {
                "code": "bpp_terms",
                "list": [
                  {
                    "code": "np_type",
                    "value": "MSN"294
                  },
                  {
                    "code": "accept_bap_terms",
                    "value": "Y"295
                  },
                  {
                    "code": "collect_payment296",
                    "value": "Y"297
                  }
                ]
              }
            ]
          ];
          "bpp/providers298": [
        }
      ]
    }
  }
}
```

<sup>292</sup> descriptor for seller NP;

<sup>293</sup> logo or image for seller NP;

<sup>294</sup> self-declaration of type of NP, enum - "ISN" (inventory seller), "MSN" (marketplace);

<sup>295</sup> enum - "Y" (yes), "N" (no);

<sup>296</sup> optional - may be provided if seller NP wants to collect payment;

<sup>297</sup> enum - "Y" (yes), "N" (no);

<sup>298</sup> descriptor for seller (merchant) that processes & fulfills orders;

```

{
  "id": "P1299",
  "time": {
    "label": "enable300",
    "timestamp": "2023-06-03T07:00:30.000Z301"
  },
  "fulfillments302": [
    {
      "id": "F1",
      "type": "Delivery",
      "contact303: {
        "phone": "9886098860304",
        "email": "abc@xyz.com"
      }
    },
    {
      "id": "F2",
      "type": "Self-Pickup",
      "contact": {
        "phone": "9886098860",
        "email": "abc@xyz.com"
      }
    },
    {
      "id": "F3",
      "type": "Buyer-Delivery",
      "contact": {
        "phone": "9886098860",
        "email": "abc@xyz.com"
      }
    }
  ],
  "descriptor": {
    "name": "Pharma Online",
    "symbol": "https://sellerNP.com/images/store1.png",
    "short_desc": "Pharma Online provides over-the-counter medicines",
    "long_desc": "Pharma Online provides over-the-counter medicines",
    "images": [
      "https://sellerNP.com/images/store1.png"
    ]
  },
  "ttl": "P1D306",
  "locations307: [
    {
      "id": "L1",
      "time": {
        "label": "enable308",
        "timestamp": "2023-06-03T07:30:30.000Z309",
        "days": "1,2,3,4,5,6,7"
      }
    }
  ]
}

```

<sup>299</sup> unique id for provider;

<sup>300</sup> enum - "enable" (default), "disable" (soft delete of provider from buyer NP cache). For "disable", the serviceability for the store should not be a part of the catalog;

<sup>301</sup> timestamp when the snapshot for this provider was generated. Buyer NPs can use this to determine from when to start incremental refresh;

<sup>302</sup> provider level fulfillment options;

<sup>303</sup> contact details for merchant - if merchant is in multiple locations, this will be the contact detail for merchant and contact detail for the storefront (specific location) will be in fulfillment.start;

<sup>304</sup> valid 10 digit (mobile no) or 11 digit no;

<sup>305</sup> email id of merchant or seller NP;

<sup>306</sup> ISO8601 duration format for validity of provider catalog;

<sup>307</sup> locations for provider with unique id for each location;

<sup>308</sup> enum - "enable" (default), "disable" (soft delete of provider location, i.e. warehouse or store, from buyer NP cache - in this case, serviceability for the store should not be a part of the catalog), "close" (temporary closure of store with the same format for time.range as specified, for incremental refresh, [here](#) - only if this event is available at the time of generating the full catalog snapshot), "open" (reopening of store when the store was previously closed for an indefinite time); if store close timing was provided previously and store info is being updated thru "enable", provider.tags.close\_timing may be used to provide the store close timing;

<sup>309</sup> timestamp when the snapshot for location was generated, must be <= Context.timestamp;

```

"schedule":
{
  "holidays310":
  [
    "2023-08-15"
  ],
  "frequency":"PT4H",
  "times":
  [
    "1100",
    "1900"
  ],
  "range":
  {
    "start":"1100",
    "end":"2100"
  }
},
"gps":"12.967555,77.749666",
"address":
{
  "locality311":"Jayanagar",
  "street":"Jayanagar 4th Block",
  "city":"Bengaluru",
  "area_code":"560076",
  "state":"KA"
},
"circle":
{
  "gps":"12.967555,77.749666",
  "radius":
  {
    "unit":"km",
    "value":3
  }
},
"items":
[
  {
    "id":"I1",
    "time":
    {
      "label":"enable312",
      "timestamp":"2023-06-03T07:30:00.000Z313"
    },
    "descriptor":
    {
      "name":"Calcium and Vitamin D3 tablets314,
      "code315":1:XXXXXXXXXXXX,
      "symbol":"https://sellerNP.com/images/i1.png",
      "short_desc":"Calcium and Vitamin D3 tablets316,
      "long_desc":"Calcium and Vitamin D3 tablets317,
      "images318":
      [
        "https://sellerNP.com/images/i1.png"
      ]
    },
    "quantity":
    {
      "unitized":
      {
        "measure":
        {
          "unit": "unit"319,

```

<sup>310</sup> list of future dated holidays, to be used as per holiday calendar; if no holidays, empty array needs to be passed;

<sup>311</sup> locality name;

<sup>312</sup> enum - "enable", "disable";

<sup>313</sup> timestamp for item event;

<sup>314</sup> name of medicine;

<sup>315</sup> unique code for item which will be in this format - "type:code" where type is 1 - EAN, 2 - ISBN, 3 - GTIN, 4 - HSN, 5 - others;

<sup>316</sup> name of medicine;

<sup>317</sup> name of medicine;

<sup>318</sup> while item images ensures better discoverability & enhances user experience, if no image is available, seller NPs shouldn't send image (instead of sending placeholder image);

<sup>319</sup> enum - "unit", "dozen", "kilogram", "tonne", "litre", "millilitre" (list [here](#));

```

    "value":"1"
  },
  "available":
  {
    "count320":"99"
  },
  "maximum":
  {
    "count321":"99"
  },
  "price":
  {
    "currency":"INR",
    "value":"65.00",
    "maximum_value":"65.0"
  },
  "category_id":"Nutrition and Fitness Supplements322,
  "fulfillment_id323:"F1",
  "location_id324:"L1",
  "@ondc/org/returnable":true325,
  "@ondc/org/cancellable":true326,
  "@ondc/org/return_window":"PT1H",
  "@ondc/org/seller_pickup_return327:true,
  "@ondc/org/time_to_ship":"PT45M",
  "@ondc/org/available_on_cod":false,
  "@ondc/org/contact_details_consumer_care328: "Ramesh,ramesh@abc.com,18004254444",
  "@ondc/org/statutory_reqs_packaged_commodities329:
  {
    "manufacturer_or_packer_name":"Pure and Cure Healthcare Pvt Ltd",
    "manufacturer_or_packer_address":"Plot No 26A-30, Sector 8A, IIE, SIDCUL, Ranipur, Haridwar-249403",
    "mfg_license_no":"51/UA/SC/P-2013330",
    "common_or_generic_name_of_commodity":"Shelcal HD331,
    "multiple_products_name_number_or_qty":"15332",
    "month_year_of_manufacture_packing_import":"Mar-22333,
    "expiry_date":"Feb-24334"
  },
  "@ondc/org/statutory_reqs_prepackaged_food335:
  {
    "ingredients_info":"Every film-coated tablet contains: 1250 mg Calcium Carbonate from an organic source (powdered oyster shell) equivalent to Elemental Calcium 500 mg, Vitamin D3 I.P 500 IU, Colors: lake of sunset yellow FCF and titanium dioxide I.P336
  }
},
"tags":
[
  {
    "code":"origin337",
    "list":
    [
      {
        "code":"country",
        "value":"IND338"
      }
    ]
  },
  {
    "code":"image339,
  }
]

```

<sup>320</sup> stringified integer value - default value for item in stock;

<sup>321</sup> stringified integer value - cap per order (if exists) or default value;

<sup>322</sup> list of category is [here](#);

<sup>323</sup> default fulfillment type;

<sup>324</sup> unique location for provider as defined in the catalog;

<sup>325</sup> should default to true except for specific make-to-order items;

<sup>326</sup> should default to true except for specific make-to-order items;

<sup>327</sup> whether seller is responsible for pick up of item for return;

<sup>328</sup> valid contact details exactly in this format - name, email, contact no;

<sup>329</sup> optional

<sup>330</sup> manufacturing license no;

<sup>331</sup> generic name;

<sup>332</sup> pack size e.g. no of medicines in strip;

<sup>333</sup> month & year of manufacturing;

<sup>334</sup> expiry date;

<sup>335</sup> optional

<sup>336</sup> ingredient info;

<sup>337</sup> identifies origin of item i.e. country, state, etc.;

<sup>338</sup> ISO 3166-1 alpha-3 code;

<sup>339</sup> images for statutory requirements;

```

"list":
[
  {
    "code":"type",
    "value":"back_image"
  },
  {
    "code":"url",
    "value":"https://sellerNP.com/ondc/images/l1-back.jpg340"
  }
],
{
  "code":"attribute341",
  "list":
  [
    {
      "code":"brand",
      "value":"Shellcal HD"
    },
    {
      "code":"prescription_required",
      "value":"no"
    }
  ]
},
"creds342":
[
  {
    "id343":"ESG-12345678",
    "descriptor344":
    {
      "code":"ESG-12345678",
      "short_desc":"ESG-12345678-FF",
      "name":"Dun & Bradstreet ESG Badge No."
    },
    "uri345":"https://abcd.cdn.com/images/badge-img",
    "tags":
    [
      {
        "code":"verification",
        "list":
        [
          {
            "code":"verify_url",
            "value":"https://abcd.dnb.com/verify?id=ESG-12345678"
          },
          {
            "code":"valid_from",
            "value":"2023-06-03T00:00:00:000Z"
          },
          {
            "code":"valid_to346",
            "value":"2024-06-03T23:59:59:999Z"
          }
        ]
      }
    ]
  }
],
"tags":
[
  {
    "code":"order_value347,

```

<sup>340</sup> back image with all details; either back image or text details need to be provided (manufacturer\_or\_packer\_name, manufacturer\_or\_packer\_address, mfg\_license\_no, common\_or\_generic\_name\_of\_commodity, multiple\_products\_name\_number\_or\_qty, month\_year\_of\_manufacture\_packing\_import, expiry\_date, ingredients\_info);

<sup>341</sup> item attributes defined [here](#) (**mapping of attributes to keys e.g "Prescription Required" => "prescription\_required"**) - populating with valid values will enable better discoverability on buyer NPs, suggestive enums [here](#):

<sup>342</sup> credentials for provider (optional);

<sup>343</sup> globally identifiable identity or unique ID provided by seller app; mandatory if creds are provided;

<sup>344</sup> code is tag, short\_desc is subtag for the credential;

<sup>345</sup> display URL for credential, optional;

<sup>346</sup> optional, only if available;

<sup>347</sup> for defining order value (e.g. min order value) for provider;

```

"list":
[
  {
    "code":"min_value348",
    "value":"300.00"
  }
],
{
  "code":"catalog_link349",
  "list":
  [
    {
      "code":"type",
      "value": "inline350"
    },
    {
      "code": "type_value351",
      "value": "https://s3.amazonaws.com/xjhjsfsdfs/f-12349.zip"
    },
    {
      "code": "type_validity352",
      "value": "PT24H"
    },
    {
      "code": "last_update353",
      "value": "2023-05-21T00:00:00Z"
    }
  ]
},
{
  "code": "timing",
  "list":
  [
    {
      "code": "type",
      "value": "Order354"
    },
    {
      "code": "location",
      "value": "L1355"
    },
    {
      "code": "day_from",
      "value": "1356"
    },
    {
      "code": "day_to",
      "value": "7357"
    },
    {
      "code": "time_from",
      "value": "0000358"
    },
    {
      "code": "time_to",
      "value": "2359359"
    }
  ]
},
{
  "code": "timing",
  "list":

```

<sup>348</sup> minimum order value for provider (up to 2 decimals);

<sup>349</sup> option for catalog refresh using link or inline (default);

<sup>350</sup> enum - "link" (link to zip file for items array for the provider), "inline" (items array in inline response, which is the default today);

<sup>351</sup> authorized link URL, required only if type = "link"; in this case, items array won't be a part of inline response;

<sup>352</sup> authorized link validity from last\_update, required only if type = "link";

<sup>353</sup> timestamp for last update of link (RFC3339), required only if type = "link";

<sup>354</sup> **timing for fulfillment type, enum - "Order" (online order processing timings), "Delivery" (order shipment timings, will be same as delivery timings for hyperlocal), "Self-Pickup" (self-pickup timings);** example shows store open 24x7: Monday to Sunday (0000 - 2359);

<sup>355</sup> location id for provider;

<sup>356</sup> valid value - day of week ("1" - Monday, "7" - Sunday);

<sup>357</sup> valid value - day of week ("1" - Monday, "7" - Sunday), day\_to >= day\_from;

<sup>358</sup> valid value - 24hr format ("0000" to "2359");

<sup>359</sup> valid value - 24hr format ("0000" to "2359"), time\_to >= time\_from;

```
[
  {
    "code": "type",
    "value": "Self-Pickup"
  },
  {
    "code": "location",
    "value": "L1"
  },
  {
    "code": "day_from",
    "value": "1"
  },
  {
    "code": "day_to",
    "value": "7"
  },
  {
    "code": "time_from",
    "value": "1100"
  },
  {
    "code": "time_to",
    "value": "2000"
  }
],
{
  "code": "timing",
  "list":
  [
    {
      "code": "type",
      "value": "Delivery"
    },
    {
      "code": "location",
      "value": "L1"
    },
    {
      "code": "day_from",
      "value": "1"
    },
    {
      "code": "day_to",
      "value": "7"
    },
    {
      "code": "time_from",
      "value": "1100"
    },
    {
      "code": "time_to",
      "value": "2200"
    }
  ]
},
{
  "code": "serviceability"360,
  "list":
  [
    {
      "code": "location",
      "value": "L1"361
    },
    {
      "code": "category",
      "value": "F&B"
    },
    {
      "code": "type",
      "value": "10"362
    }
  ]
}
```

<sup>360</sup> serviceability construct is defined for (provider+location+category) at either of these levels - hyperlocal (radius) or intercity (pincodes) or pan-India; every unique combination of (provider+location+category) can have serviceability defined only at one of these levels;

<sup>361</sup> maps to unique location for provider;

<sup>362</sup> enum - "10" (hyperlocal), "11" (intercity), "12" (pan-India);

```
        "code":"val",
        "value":"3"
    },
    {
        "code":"unit",
        "value":"km"
    }
]
}
]
```

**N.B.**

1. /on\_search responses may be paginated by provider, i.e. separate /on\_search response per provider with the same transaction\_id and message\_id as /search;
2. [Serviceability construct](#) has to be explicitly defined as specified here. Both old construct (radius at provider location) and new construct (by category using radius / pincode / pan-India) will need to be supported until the old construct is deprecated;
3. Enabling & disabling of providers and out-of-stock items have to be explicitly defined as specified here;

## Examples

### 1. F&B (Farmhouse Pizza)

| Crust (any 1 option) *   | Size (any 1 option) *  | Toppings (up to 2 options)  |
|--|--|---|
| New Hand Tossed<br>(customization - C1, customization group - CG1, nested customization group - CG2)       | Regular<br>(customization - C3, customization group - CG2, nested customization group - CG4)       | Grilled Mushrooms (₹35);<br>(customization - C8, customization group - CG4)<br>Fresh Tomato (₹35);<br>(customization - C9, customization group - CG4)<br>Pepper Barbeque Chicken (₹50);<br>(customization - C10, customization group - CG4)   |
|  | Large (₹450)<br>(customization - C4, customization group - CG2, nested customization group - CG5)  | Grilled Mushrooms (₹80);<br>(customization - C11, customization group - CG5)<br>Fresh Tomato (₹80);<br>(customization - C12, customization group - CG5)<br>Pepper Barbeque Chicken (₹95);<br>(customization - C13, customization group - CG5) |
|  | Medium (₹210)<br>(customization - C5, customization group - CG2, nested customization group - CG6) | Grilled Mushrooms (₹60);<br>(customization - C14, customization group - CG6)<br>Fresh Tomato (₹60);<br>(customization - C15, customization group - CG6)<br>Pepper Barbeque Chicken (₹75);<br>(customization - C16, customization group - CG6) |
| 100% Wheat Thin Crust<br>(customization - C2, customization group - CG1, nested customization group - CG3) | Regular (₹45)<br>(customization - C6, customization group - CG3, nested customization group - CG4) | Grilled Mushrooms (₹35);<br>(customization - C8, customization group - CG4)<br>Fresh Tomato (₹35);<br>(customization - C9, customization group - CG4)<br>Pepper Barbeque Chicken (₹50);<br>(customization - C10, customization group - CG4)   |
|  | Medium (₹275)<br>(customization - C7, customization group - CG3, nested customization group - CG6) | Grilled Mushrooms (₹60);<br>(customization - C14, customization group - CG6)<br>Fresh Tomato (₹60);<br>(customization - C15, customization group - CG6)<br>Pepper Barbeque Chicken (₹75);<br>(customization - C16, customization group - CG6) |

In this example:

- Base price is ₹269 and all prices shown in the table above are incremental to the base price;
- Mandatory customizations - crust, size;
- Optional customizations - toppings;
- 1 item (SKU) will be defined for the product and all customizations defined as related items (with inventory, price, veg/non-veg attributes) and customization groups;
- Customization & Customization groups mapped above & defined in the payload below;

## Payload

{

```

"context":
{
  "domain":"ONDC:RET11",
  "country":"IND",
  "city":"std:080",
  "action":"on_search",
  "core_version":"1.2.0",
  "bap_id":"buyerNP.com",
  "bap_uri":"https://buyerNP.com/ondc",
  "bpp_id":"sellerNP.com",
  "bpp_uri":"https://sellerNP.com/ondc",
  "transaction_id":"T1",
  "message_id":"M1",
  "timestamp":"2023-06-03T08:00:30.000Z"
},
"message":
{
  "catalog":
  {
    "bpp/descriptor":
    {
      "name":"Seller NP",
      "symbol":"https://sellerNP.com/images/np.png",
      "short_desc":"Seller Marketplace",
      "long_desc":"Seller Marketplace",
      "images":
      [
        "https://sellerNP.com/images/np.png"
      ],
      "tags":
      [
        {
          "code":"bpp_terms",
          "list":
          [
            {
              "code":"np_type",
              "value":"ISN363"363
            },
            {
              "code":"accept_bap_terms",
              "value":"Y"
            },
            {
              "code":"collect_payment364",
              "value":"Y365"365
            }
          ]
        }
      ],
      "bpp/providers":
      [
        {
          "id":"P1",
          "time":
          {
            "label":"enable366",
            "timestamp":"2023-06-03T07:00:30.000Z367"367
          }
        },
        "fulfillments":
        [
          {
            "id":"F1",
            "type":"Delivery",
            "contact":
            {
              "phone":"9886098860",
              "email":"abc@xyz.com"
            }
          },
          {
            "id":"F2",

```

<sup>363</sup> self-declaration of type of NP, enum - "ISN" (inventory seller), "MSN" (marketplace);

<sup>364</sup> optional - may be provided if seller NP wants to collect payment;

<sup>365</sup> enum - "Y" (yes), "N" (no);

<sup>366</sup> enum - "enable" (default), "disable" (soft delete of provider from buyer NP cache);

<sup>367</sup> timestamp when the snapshot for this provider was generated. Buyer NPs can use this to determine from when to start incremental refresh;

```

    "type":"Self-Pickup",
    "contact":
    {
      "phone":"9886098860",
      "email":"abc@xyz.com"
    }
  },
  {
    "id":"F3",
    "type":"Buyer-Delivery",
    "contact":
    {
      "phone":"9886098860",
      "email":"abc@xyz.com"
    }
  }
],
"descriptor":
{
  "name":"Store 1",
  "symbol":"https://sellerNP.com/images/store1.png",
  "short_desc":"Store 1",
  "long_desc":"Store 1",
  "images":
  [
    "https://sellerNP.com/images/store1.png"
  ],
  "@ondc/org/fssai_license_no":"12345678901234",
  "ttl":"P1D",
  "locations":
  [
    {
      "id": "L1",
      "time":
      {
        "label": "enable368",
        "timestamp": "2023-06-03T07:30:30.000Z369",
        "days": "1,2,3,4,5,6,7",
        "schedule":
        {
          "holidays":
          [
            "2023-08-15"
          ],
          "frequency": "PT4H",
          "times":
          [
            "1100",
            "1900"
          ]
        },
        "range":
        {
          "start": "1100",
          "end": "2100"
        }
      },
      "gps": "12.967555,77.749666",
      "address":
      {
        "locality": "Jayanagar",
        "street": "Jayanagar 4th Block",
        "city": "Bengaluru",
        "area_code": "560076",
        "state": "KA"
      },
      "circle":
      {
        "gps": "12.967555,77.749666",
        "radius":
        {
          "value": 500
        }
      }
    }
  ]
}

```

<sup>368</sup> enum - "enable" (default), "disable" (soft delete of provider location, i.e. warehouse or store from buyer NP cache - in this case, serviceability for the store should not be a part of the catalog), "close" (temporary closure of store with the same format for time.range as specified, for incremental refresh, [here](#) - only if this event is available at the time of generating the full catalog snapshot), "open" (reopening of store when the store was previously closed for an indefinite time); if store close timing was provided previously and store info is being updated thru "enable", provider.tags.close\_timing may be used to provide the store close timing;

<sup>369</sup> timestamp when the snapshot for location was generated, must be <= Context.timestamp;

```

        "unit":"km",
        "value":"3"
      }
    }
  ],
  "categories": [
    {
      "id":"5",
      "parent_category_id":"",
      "descriptor": {
        "name":"Pizza",
        "short_desc":"Veg and Non-Veg pizza",
        "long_desc":"American and Italian Veg and Non-Veg Pizza",
        "images": [
          {
            "url": "https://sellerNP.com/ondc/m005.png"
          }
        ],
        "tags": [
          {
            "code":"type",
            "list": [
              {
                "code":"type",
                "value":"custom_menu"
              }
            ]
          },
          {
            "code":"timing",
            "list": [
              {
                "code":"day_from",
                "value":"1"
              },
              {
                "code":"day_to",
                "value":"5"
              },
              {
                "code":"time_from",
                "value":"1800"
              },
              {
                "code":"time_to",
                "value":"2200"
              }
            ]
          },
          {
            "code":"display",
            "list": [
              {
                "code":"rank",
                "value":"3"
              }
            ]
          }
        ],
        "id":"CG1",
        "descriptor": {
          "name":"Crust (any 1 option)"
        },
        "tags": [
          {
            "code":"type",
            "list": [
              {
                "code":"type",
                "value":"thin_crust"
              }
            ]
          }
        ]
      }
    }
  ]
}

```

```

    "value":"custom_group"
  }
],
{
  "code":"config",
  "list":
  [
    {
      "code":"min",
      "value":"1"
    },
    {
      "code":"max",
      "value":"1"
    },
    {
      "code":"input",
      "value":"select"
    },
    {
      "code":"seq",
      "value":"1"
    }
  ]
},
{
  "id":"CG2",
  "descriptor":
  {
    "name":"Size (any 1 option)"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"custom_group"
        }
      ]
    },
    {
      "code":"config",
      "list":
      [
        {
          "code":"min",
          "value":"1"
        },
        {
          "code":"max",
          "value":"1"
        },
        {
          "code":"input",
          "value":"select"
        },
        {
          "code":"seq",
          "value":"2"
        }
      ]
    }
  ],
  {
    "id":"CG3",
    "descriptor":
    {
      "name":"Size (any 1 option)"
    },
    "tags":
    [
      {
        "code":"type",
        "list":

```

```
[
  {
    "code": "type",
    "value": "custom_group"
  }
],
{
  "code": "config",
  "list":
  [
    {
      "code": "min",
      "value": "1"
    },
    {
      "code": "max",
      "value": "1"
    },
    {
      "code": "input",
      "value": "select"
    },
    {
      "code": "seq",
      "value": "2"
    }
  ]
},
{
  "id": "CG4",
  "descriptor":
  {
    "name": "Toppings (up to 2 options)"
  },
  "tags":
  [
    {
      "code": "type",
      "list":
      [
        {
          "code": "type",
          "value": "custom_group"
        }
      ]
    },
    {
      "code": "config",
      "list":
      [
        {
          "code": "min",
          "value": "0"
        },
        {
          "code": "max",
          "value": "2"
        },
        {
          "code": "input",
          "value": "select"
        },
        {
          "code": "seq",
          "value": "3"
        }
      ]
    }
  ],
  {
    "id": "CG5",
    "descriptor":
    {
      "name": "Toppings (up to 2 options)"
    },
    "tags":
    [

```

```
{
  "code": "type",
  "list": [
    {
      "code": "type",
      "value": "custom_group"
    }
  ],
  {
    "code": "config",
    "list": [
      {
        "code": "min",
        "value": "0"
      },
      {
        "code": "max",
        "value": "2"
      },
      {
        "code": "input",
        "value": "select"
      },
      {
        "code": "seq",
        "value": "3"
      }
    ]
  }
},
{
  "id": "CG6",
  "descriptor": {
    "name": "Toppings (up to 2 options)"
  },
  "tags": [
    {
      "code": "type",
      "list": [
        {
          "code": "type",
          "value": "custom_group"
        }
      ],
      {
        "code": "config",
        "list": [
          {
            "code": "min",
            "value": "0"
          },
          {
            "code": "max",
            "value": "2"
          },
          {
            "code": "input",
            "value": "select"
          },
          {
            "code": "seq",
            "value": "3"
          }
        ]
      }
    }
  ],
  "items": [
    {
      "id": "I1",
      "label": "Toppings (up to 2 options)"
    }
  ]
}
```

```

"time":
{
  "label":"enable370",
  "timestamp":"2023-06-03T07:30:00.000Z371"
},
"descriptor":
{
  "name":"Farm House Pizza",
  "symbol":"https://sellerNP.com/images/i1.png",
  "short_desc":"Farm House Pizza",
  "long_desc":"Farm House Pizza",
  "images":
  [
    "https://sellerNP.com/images/i1.png"
  ]
},
"quantity":
{
  "unitized":
  {
    "measure":
    {
      "unit":"unit",
      "value":"1"
    }
  },
  "available":
  {
    "count":"99"
  },
  "maximum":
  {
    "count":"99"
  }
},
"price":
{
  "currency":"INR",
  "value":"269.0",
  "maximum_value":"269.0",
  "tags372":
  [
    {
      "code":"range",
      "list":
      [
        {
          "code":"lower",
          "value":"269.00"373
        },
        {
          "code":"upper",
          "value":"894.00"374
        }
      ]
    }
  ],
  "category_id":"F&B",
  "category_ids":
  [
    "5:1"
  ],
  "fulfillment_id":"F1",
  "location_id":"L1",
  "related":false,
  "recommended":true,
  "@ondc/org/returnable":false,
  "@ondc/org/cancellable":false,
  "@ondc/org/return_window":"PT1H",
  "@ondc/org/seller_pickup_return":false,
  "@ondc/org/time_to_ship":"PT45M",
  "@ondc/org/available_on_cod":false,
}

```

<sup>370</sup> enum - "enable", "disable";

<sup>371</sup> timestamp for item event;

<sup>372</sup> (optional) upper & lower price range, for product created using this base item & customizations, for display on the store listing page;

<sup>373</sup> up to 2 decimal places;

<sup>374</sup> up to 2 decimal places;

```

"@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
"tags":
[
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"item"
      }
    ],
    "code":"custom_group",
    "list":
    [
      {
        "code":"id",
        "value":"CG1"
      }
    ],
    "code":"timing",
    "list":
    [
      {
        "code":"day_from",
        "value":"1"
      },
      {
        "code":"day_to",
        "value":"5"
      },
      {
        "code":"time_from",
        "value":"1800"
      },
      {
        "code":"time_to",
        "value":"2200"
      }
    ]
  },
  {
    "code":"veg_nonveg",
    "list":
    [
      {
        "code":"veg",
        "value":"yes"
      }
    ]
  }
],
{
  "id":"C1",
  "descriptor":
  {
    "name":"New Hand Tossed"
  },
  "quantity":
  {
    "unitized":
    {
      "measure":
      {
        "unit":"unit",
        "value":"1"
      }
    },
    "available":
    {
      "count":"99"
    }
  },
  "maximum":
  {
    "count":"99"
  }
}

```

```

},
"price":
{
  "currency":"INR",
  "value":"0.0",
  "maximum_value":"0.0"
},
"category_id":"F&B",
"related":true,
"tags":
[
  {
    "code":"type",
    "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
  },
  {
    "code":"parent",
    "list":
      [
        {
          "code":"id",
          "value":"CG1"
        },
        {
          "code":"default",
          "value":"yes"
        }
      ]
  },
  {
    "code":"child",
    "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
  },
  {
    "code":"veg_nonveg",
    "list":
      [
        {
          "code":"veg",
          "value":"yes"
        }
      ]
  }
],
{
  "id":"C2",
  "descriptor":
  {
    "name":"100% Wheat Thin Crust"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"0.0",
    "maximum_value":"0.0"
  },
  "category_id":"F&B",

```

```

"related":true,
"tags":
[
  {
    "code":"type",
    "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
  },
  {
    "code":"parent",
    "list":
      [
        {
          "code":"id",
          "value":"CG1"
        }
      ]
  },
  {
    "code":"default",
    "value":"no"
  }
],
{
  "code":"child",
  "list":
    [
      {
        "code":"id",
        "value":"CG3"
      }
    ]
},
{
  "code":"veg_nonveg",
  "list":
    [
      {
        "code":"veg",
        "value":"yes"
      }
    ]
},
{
  "id":"C3",
  "descriptor":
  {
    "name":"Regular"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"0.0",
    "maximum_value":"0.0"
  },
  "category_id":"F&B",
  "related":true,
  "tags":
  [
    {
      "code":"type",
      "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
    }
  ]
}

```

<sup>375</sup> default = "no" is optional;

```

"list":
[
  {
    "code":"type",
    "value":"customization"
  }
],
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG2"
    },
    {
      "code":"default",
      "value":"yes"
    }
  ],
  {
    "code":"child",
    "list":
    [
      {
        "code":"id",
        "value":"CG4"
      }
    ],
    {
      "code":"veg_nonveg",
      "list":
      [
        {
          "code":"veg",
          "value":"yes"
        }
      ]
    }
  },
  {
    "id":"C4",
    "descriptor":
    {
      "name":"Large"
    },
    "quantity":
    {
      "available":
      {
        "count":"99"
      },
      "maximum":
      {
        "count":"99"
      }
    },
    "price":
    {
      "currency":"INR",
      "value":"450.0",
      "maximum_value":"450.0"
    },
    "category_id":"F&B",
    "related":true,
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      }
    ]
  }
]
  
```

```
{
  "code": "parent",
  "list": [
    {
      "code": "id",
      "value": "CG2"
    }
376
    {
      "code": "default",
      "value": "no"
    }
  ],
  {
    "code": "child",
    "list": [
      {
        "code": "id",
        "value": "CG5"
      }
    ],
    {
      "code": "veg_nonveg",
      "list": [
        {
          "code": "veg",
          "value": "yes"
        }
      ]
    }
  ],
  {
    "id": "C5",
    "descriptor": {
      "name": "Medium"
    },
    "quantity": {
      "available": {
        "count": "99"
      },
      "maximum": {
        "count": "99"
      }
    },
    "price": {
      "currency": "INR",
      "value": "210.0",
      "maximum_value": "210.0"
    },
    "category_id": "F&B",
    "related": true,
    "tags": [
      {
        "code": "type",
        "list": [
          {
            "code": "type",
            "value": "customization"
          }
        ]
      },
      {
        "code": "parent",
        "list": [
          {
            "code": "id",
            "value": "CG2"
          }
        ]
      }
    ]
  }
}
```

---

<sup>376</sup> default = "no" is optional;

```

    "code":"id",
    "value":"CG2"
  },
  {
    "code":"default",
    "value":"no"
  }
],
{
  "code":"child",
  "list":
  [
    {
      "code":"id",
      "value":"CG6"
    }
  ],
  {
    "code":"veg_nonveg",
    "list":
    [
      {
        "code":"veg",
        "value":"yes"
      }
    ]
  },
  {
    "id":"C6",
    "descriptor":
    {
      "name":"Regular"
    },
    "quantity":
    {
      "available":
      {
        "count":"99"
      },
      "maximum":
      {
        "count":"99"
      }
    },
    "price":
    {
      "currency":"INR",
      "value":"45.0",
      "maximum_value":"45.0"
    },
    "category_id":"F&B",
    "related":true,
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  }
}

```

<sup>377</sup> default = "no" is optional;

<sup>378</sup> default = "no" is optional;

```

    "code":"default",
    "value":"no"
  }
},
{
  "code":"child",
  "list":
  [
    {
      "code":"id",
      "value":"CG4"
    }
  ],
  {
    "code":"veg_nonveg",
    "list":
    [
      {
        "code":"veg",
        "value":"yes"
      }
    ]
  },
  {
    "id":"C7",
    "descriptor":
    {
      "name":"Medium"
    },
    "quantity":
    {
      "available":
      {
        "count":"99"
      },
      "maximum":
      {
        "count":"99"
      }
    },
    "price":
    {
      "currency":"INR",
      "value":"275.0",
      "maximum_value":"275.0"
    },
    "category_id":"F&B",
    "related":true,
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          },
379          {
            "code":"default",
            "value":"no"
          }
        ]
      },
    ]
  }
},

```

---

<sup>379</sup> default = "no" is optional;

```
{
  "code": "child",
  "list": [
    {
      "code": "id",
      "value": "CG6"
    }
  ],
  {
    "code": "veg_nonveg",
    "list": [
      {
        "code": "veg",
        "value": "yes"
      }
    ]
  },
  {
    "id": "C8",
    "descriptor": {
      "name": "Grilled Mushrooms"
    },
    "quantity": {
      "available": {
        "count": "99"
      },
      "maximum": {
        "count": "99"
      }
    },
    "price": {
      "currency": "INR",
      "value": "35.0",
      "maximum_value": "35.0"
    },
    "category_id": "F&B",
    "related": true,
    "tags": [
      {
        "code": "type",
        "list": [
          {
            "code": "type",
            "value": "customization"
          }
        ]
      },
      {
        "code": "parent",
        "list": [
          {
            "code": "id",
            "value": "CG4"
          },
          {
            "code": "default",
            "value": "yes"
          }
        ]
      },
      {
        "code": "veg_nonveg",
        "list": [
          {
            "code": "veg",
            "value": "yes"
          }
        ]
      }
    ]
  }
}
```

```

        ],
      },
    },
    {
      "id": "C9",
      "descriptor": {
        "name": "Fresh Tomato"
      },
      "quantity": {
        "available": {
          "count": "99"
        },
        "maximum": {
          "count": "99"
        }
      },
      "price": {
        "currency": "INR",
        "value": "35.0",
        "maximum_value": "35.0"
      },
      "category_id": "F&B",
      "related": true,
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "customization"
            }
          ]
        },
        {
          "code": "parent",
          "list": [
            {
              "code": "id",
              "value": "CG4"380
            },
            {
              "code": "default",
              "value": "no"
            }
          ]
        },
        {
          "code": "veg_nonveg",
          "list": [
            {
              "code": "veg",
              "value": "yes"
            }
          ]
        }
      ],
      {
        "id": "C10",
        "descriptor": {
          "name": "Pepper Barbeque Chicken"
        },
        "quantity": {
          "available": {
            "count": "99"
          }
        }
      }
    ]
  }
}

```

<sup>380</sup> default = "no" is optional;

```

},
"maximum":
{
  "count":"99"
}
},
"price":
{
  "currency":"INR",
  "value":"50.0",
  "maximum_value":"50.0"
},
"category_id":"F&B",
"related":true,
"tags":
[
  {
    "code":"type",
    "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
  },
  {
    "code":"parent",
    "list":
      [
        {
          "code":"id",
          "value":"CG4"
        }
      ]
381
        "code":"default",
        "value":"no"
      }
  ],
  {
    "code":"veg_nonveg",
    "list":
      [
        {
          "code":"non_veg",
          "value":"yes"
        }
      ]
  }
],
{
  "id":"C11",
  "descriptor":
  {
    "name":"Grilled Mushrooms"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"80.0",
    "maximum_value":"80.0"
  },
  "category_id":"F&B",
  "related":true,
  "tags":

```

---

<sup>381</sup> default = "no" is optional;

```
[
  {
    "code": "type",
    "list": [
      {
        "code": "type",
        "value": "customization"
      }
    ],
    {
      "code": "parent",
      "list": [
        {
          "code": "id",
          "value": "CG5"
        },
382        {
          "code": "default",
          "value": "no"
        }
      ]
    },
    {
      "code": "veg_nonveg",
      "list": [
        {
          "code": "veg",
          "value": "yes"
        }
      ]
    }
  ],
  {
    "id": "C12",
    "descriptor": {
      "name": "Fresh Tomato"
    },
    "quantity": {
      "available": {
        "count": "99"
      },
      "maximum": {
        "count": "99"
      }
    },
    "price": {
      "currency": "INR",
      "value": "80.0",
      "maximum_value": "80.0"
    },
    "category_id": "F&B",
    "related": true,
    "tags": [
      {
        "code": "type",
        "list": [
          {
            "code": "type",
            "value": "customization"
          }
        ],
        {
          "code": "parent",
          "list": [

```

---

<sup>382</sup> default = "no" is optional;

```
{
  "code":"id",
  "value":"CG5"
},
{
383
  "code":"default",
  "value":"no"
}
],
{
  "code":"veg_nonveg",
  "list":
  [
    {
      "code":"veg",
      "value":"yes"
    }
  ]
},
{
  "id":"C13",
  "descriptor":
  {
    "name":"Pepper Barbeque Chicken"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"95.0",
    "maximum_value":"95.0"
  },
  "category_id":"F&B",
  "related":true,
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG5"
        },
384
          "code":"default",
          "value":"no"
        }
      ]
    },
    {
      "code":"veg_nonveg",
      "list":
      [

```

<sup>383</sup> default = "no" is optional;

<sup>384</sup> default = "no" is optional;

```
{
  "code":"non_veg",
  "value":"yes"
}
]
},
{
  "id":"C14",
  "descriptor":
  {
    "name":"Grilled Mushrooms"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"80.0",
    "maximum_value":"80.0"
  },
  "category_id":"F&B",
  "related":true,
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG6"
        },
385        {
          "code":"default",
          "value":"no"
        }
      ]
    },
    {
      "code":"veg_nonveg",
      "list":
      [
        {
          "code":"veg",
          "value":"yes"
        }
      ]
    }
  ],
  {
    "id":"C15",
    "descriptor":
    {
      "name":"Fresh Tomato"
    },
    "quantity":

```

---

<sup>385</sup> default = "no" is optional;

```
{
  "available":
  {
    "count":"99"
  },
  "maximum":
  {
    "count":"99"
  }
},
"price":
{
  "currency":"INR",
  "value":"80.0",
  "maximum_value":"80.0"
},
"category_id":"F&B",
"related":true,
"tags":
[
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"customization"
      }
    ]
  },
  {
    "code":"parent",
    "list":
    [
      {
        "code":"id",
        "value":"CG6"386
      },
      {
        "code":"default",
        "value":"no"
      }
    ]
  },
  {
    "code":"veg_nonveg",
    "list":
    [
      {
        "code":"veg",
        "value":"yes"
      }
    ]
  }
],
{
  "id":"C16",
  "descriptor":
  {
    "name":"Pepper Barbeque Chicken"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"95.0",
    "maximum_value":"95.0"
  }
}
```

---

<sup>386</sup> default = "no" is optional;

```

},
"category_id": "F&B",
"related": true,
"tags":
[
  {
    "code": "type",
    "list":
      [
        {
          "code": "type",
          "value": "customization"
        }
      ]
  },
  {
    "code": "parent",
    "list":
      [
        {
          "code": "id",
          "value": "CG6"
        }
      ]387
        {
          "code": "default",
          "value": "no"
        }
      ]
  },
  {
    "code": "veg_nonveg",
    "list":
      [
        {
          "code": "non_veg",
          "value": "yes"
        }
      ]
  }
],
"tags":
[
  {
    "code": "order_value",
    "list":
      [
        {
          "code": "min_value",
          "value": "300.00"
        }
      ]
  },
  {
    "code": "timing",
    "list":
      [
        {
          "code": "type",
          "value": "Order"
        },
        {
          "code": "location",
          "value": "L1"
        },
        {
          "code": "day_from",
          "value": "1"
        },
        {
          "code": "day_to",
          "value": "7"
        },
        {
          "code": "time_from",
          "value": "1000"
        },
      ]
  }
],

```

---

<sup>387</sup> default = "no" is optional;

```

    {
      "code":"time_to",
      "value":"2200"
    }
  ],
  {
    "code":"timing",
    "list":
    [
      {
        "code":"type",
        "value":"Self-Pickup"
      },
      {
        "code":"location",
        "value":"L1"
      },
      {
        "code":"day_from",
        "value":1
      },
      {
        "code":"day_to",
        "value":7
      },
      {
        "code":"time_from",
        "value":1000
      },
      {
        "code":"time_to",
        "value":2000
      }
    ]
  },
  {
    "code":"timing",
    "list":
    [
      {
        "code":"type",
        "value":Delivery
      },
      {
        "code":"location",
        "value":L1
      },
      {
        "code":"day_from",
        "value":1
      },
      {
        "code":"day_to",
        "value":7
      },
      {
        "code":"time_from",
        "value":1000
      },
      {
        "code":"time_to",
        "value":2200
      }
    ]
  },
  {
    "code":"close_timing388",
    "list":
    [
      {
        "code":"location",
        "value":L1
      },
      {
        "code":"start",
        "value":2023-06-03T16:00:00.000Z
      },
    ]
  }
]

```

<sup>388</sup> optional - may be provided if store close timing was earlier provided but the store info is being updated thru full refresh;

```

    {
      "code":"end389",
      "value":"2023-06-03T23:59:00.000Z"
    }
  ],
  {
    "code":"serviceability",
    "list":
    [
      {
        "code":"location",
        "value":"L1"
      },
      {
        "code":"category",
        "value":"F&B"
      },
      {
        "code":"type",
        "value":"13390"
      },
      {
        "code":"unit",
        "value":geojson391
      },
      {
        "code":"val",
        "value":{ "type": "FeatureCollection", "features": [{}], "geometry": { "coordinates": [[[77.175571, 28.675927], [77.128737, 28.600972], [77.446934, 28.545325], [77.175571, 28.675927]]], "type": "Polygon"}]}392
      },
      {
        "code":"day_from393,
        "value":"1"
      },
      {
        "code":"day_to",
        "value":"7"
      },
      {
        "code":"time_from",
        "value":"1000"
      },
      {
        "code":"time_to",
        "value":"2200"
      }
    ]
  }
}

```

<sup>389</sup> optional

<sup>390</sup> **polygon serviceability;**

<sup>391</sup> enum - "geojson";

<sup>392</sup> GeoJSON polygon (check [here](#) & [here](#)), gps coordinates with minimum 6 decimal precision;

<sup>393</sup> **serviceability timing ("day\_from", "day\_to", "time\_from", "time\_to") - optional and only required if serviceability varies based on day & time; if not provided, serviceability will apply for store timing;**

## 2. F&B (Mexican Patty Sandwich)

| Variant (1 option) *  | Choice of bread (1 option) *  | Choice of preparation  | Choose Add Ons (up to 1 option)   | Choose Veggies (up to 1 option)                             | Choose Sauces (up to 1 option)                                   | Choose Offers (up to 1 option)   |
|---|---|--|---|---|--|--|
| Mexican Bean Patty 15cm [6 inches]<br>(customization - C1, customization group - CG1, nested customization groups - CG2, CG3, CG4, CG6, CG7, CG8) | Multigrain Honey Oats;<br>(customization - C3, customization group - CG2)<br>Parmesan Oregano;<br>(customization - C4, customization group - CG2) | Plain bread;<br>(customization - C5, customization group - CG3)<br>Toasted bread;<br>(customization - C6, customization group - CG4) | Extra Cheese Slice (₹30);<br>(customization - C7, customization group - CG6)                | Lettuce;<br>(customization - C9, customization group - CG7) | Eggless Mayo;<br>(customization - C9, customization group - CG7) | Dark Chunk Choc Cookies (₹99);<br>(customization - C10, customization group - CG8) |
| Make Cheese Pull Mexican Patty 30cm (₹270)<br>(customization - C2, customization group - CG1, nested customization groups - CG2, CG5, CG7, CG8)   |   | N/A  | Extra Mexican Bean Patty Footlong (₹120)<br>(customization - C8, customization group - CG5) | N/A   |  |  |

In this example:

- Base price is ₹229 and all prices shown in the table above are incremental to the base price;
- Mandatory customizations - variant, choice of bread;
- Optional customizations - choice of preparation, add ons, veggies, sauces, offers;
- 1 item (SKU) will be defined for the product and all customizations defined as related items (with inventory, price, veg/non-veg attributes) and customization groups;
- Customization & Customization groups mapped above & defined in the payload below;

### Payload

```
{
  "context": {
    "domain": "ONDC:RET11",
    "country": "IND",
    "city": "std:080",
    "action": "on_search",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:30.000Z"
  },
  "message": {
    "catalog": {
      "bpp/descriptor": {
        "name": "Seller NP",
        "symbol": "https://sellerNP.com/images/np.png",
        "short_desc": "Seller Marketplace",
        "long_desc": "Seller Marketplace",
        "images": [
          "https://sellerNP.com/images/np.png"
        ],
        "tags": [
          "tag1"
        ]
      }
    }
  }
}
```

```
{
  "code":"bpp_terms",
  "list":
  [
    {
      "code":"np_type",
      "value":"ISN394"394
    },
    {
      "code":"accept_bap_terms",
      "value":"Y"
    },
    {
      "code":"collect_payment395"395,
      "value":"Y396"396
    }
  ]
},
"bpp/providers":
[
  {
    "id":"P1",
    "time":
    {
      "label":"enable",
      "timestamp":"2023-06-03T08:00:30.000Z397"397
    },
    "fulfillments":
    [
      {
        "id":"F1",
        "type":"Delivery",
        "contact":
        {
          "phone":"9886098860",
          "email":"abc@xyz.com"
        }
      },
      {
        "id":"F2",
        "type":"Self-Pickup",
        "contact":
        {
          "phone":"9886098860",
          "email":"abc@xyz.com"
        }
      },
      {
        "id":"F3",
        "type":"Buyer-Delivery",
        "contact":
        {
          "phone":"9886098860",
          "email":"abc@xyz.com"
        }
      }
    ],
    "descriptor":
    {
      "name":"Store 1",
      "symbol":"https://sellerNP.com/images/store1.png",
      "short_desc":"Store 1",
      "long_desc":"Store 1",
      "images":
      [
        "https://sellerNP.com/images/store1.png"
      ]
    },
    "@ondc/org/fssai_license_no":"12345678901234",
    "ttl":"P1D",
    "locations":
    [

```

<sup>394</sup> self-declaration of type of NP, enum - **ISN** (inventory seller), **MSN** (marketplace);

<sup>395</sup> optional - may be provided if seller NP wants to collect payment;

<sup>396</sup> enum - "Y" (yes), "N" (no);

<sup>397</sup> timestamp when the snapshot for this provider was generated. Buyer NPs can use this to determine from when to start incremental refresh;

```
{
  "id": "L1",
  "time": {
    "label": "enable398,
    "timestamp": "2023-06-03T07:30:30.000Z399",
    "days": "1,2,3,4,5,6,7",
    "schedule": {
      "holidays": [
        "2023-08-15"
      ],
      "frequency": "PT4H",
      "times": [
        "1100",
        "1900"
      ]
    },
    "range": {
      "start": "1100",
      "end": "2100"
    }
  },
  "gps": "12.967555,77.749666",
  "address": {
    "locality": "Jayanagar",
    "street": "Jayanagar 4th Block",
    "city": "Bengaluru",
    "area_code": "560076",
    "state": "KA"
  },
  "circle": {
    "gps": "12.967555,77.749666",
    "radius": {
      "unit": "km",
      "value": "3"
    }
  }
},
"categories": [
  {
    "id": "5",
    "parent_category_id": "",
    "descriptor": {
      "name": "Pizza",
      "short_desc": "Veg and Non-Veg pizza",
      "long_desc": "American and Italian Veg and Non-Veg Pizza",
      "images": [
        "https://sellerNP.com/ondc/m005.png"
      ]
    },
    "tags": [
      {
        "code": "type",
        "list": [
          {
            "code": "type",
            "value": "custom_menu"
          }
        ]
      }
    ]
  }
]
```

<sup>398</sup> enum - "enable" (default), "disable" (soft delete of provider location, i.e. warehouse or store from buyer NP cache - in this case, serviceability for the store should not be a part of the catalog), "close" (temporary closure of store with the same format for time.range as specified, for incremental refresh, [here](#) - only if this event is available at the time of generating the full catalog snapshot), "open" (reopening of store when the store was previously closed for an indefinite time); if store close timing was provided previously and store info is being updated thru "enable", provider.tags.close\_timing may be used to provide the store close timing;

<sup>399</sup> timestamp when the snapshot for location was generated, must be <= Context.timestamp;

```

},
{
  "code":"timing",
  "list":
  [
    {
      "code":"day_from",
      "value":"1"
    },
    {
      "code":"day_to",
      "value":"5"
    },
    {
      "code":"time_from",
      "value":"1800"
    },
    {
      "code":"time_to",
      "value":"2200"
    }
  ]
},
{
  "code":"display",
  "list":
  [
    {
      "code":"rank",
      "value":3
    }
  ]
}
],
{
  "id":"CG1",
  "descriptor":
  {
    "name":"Variant (1 option)"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"custom_group"
        }
      ]
    },
    {
      "code":"config",
      "list":
      [
        {
          "code":"min",
          "value":1
        },
        {
          "code":"max",
          "value":1
        },
        {
          "code":"input",
          "value":"select"
        },
        {
          "code":"seq",
          "value":1
        }
      ]
    }
  ],
  {
    "id":"CG2",
    "descriptor":
    {

```

```

    "name":"Choice of bread (1 option)"
},
"tags":
[
{
  "code":"type",
  "list":
  [
    {
      "code":"type",
      "value":"custom_group"
    }
  ],
  "code":"config",
  "list":
  [
    {
      "code":"min",
      "value":"1"
    },
    {
      "code":"max",
      "value":"1"
    },
    {
      "code":"input",
      "value":"select"
    },
    {
      "code":"seq",
      "value":"2"
    }
  ]
},
{
  "id":"CG3",
  "descriptor":
  {
    "name":"Choice of preparation"
  },
  "tags":
  [
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"custom_group"
      }
    ],
    "code":"config",
    "list":
    [
      {
        "code":"min",
        "value":"1"
      },
      {
        "code":"max",
        "value":"1"
      },
      {
        "code":"input",
        "value":"select"
      },
      {
        "code":"seq",
        "value":"3"
      }
    ]
  }
}
];
  
```

```

{
  "id": "CG4",
  "descriptor": {
    "name": "Choose Add Ons (up to 1 option)"
  },
  "tags": [
    {
      "code": "type",
      "list": [
        {
          "code": "type",
          "value": "custom_group"
        }
      ]
    },
    {
      "code": "config",
      "list": [
        {
          "code": "min",
          "value": "0"
        },
        {
          "code": "max",
          "value": "1"
        },
        {
          "code": "input",
          "value": "select"
        },
        {
          "code": "seq",
          "value": "4"
        }
      ]
    }
  ],
  "id": "CG5",
  "descriptor": {
    "name": "Choose Add Ons (up to 1 option)"
  },
  "tags": [
    {
      "code": "type",
      "list": [
        {
          "code": "type",
          "value": "custom_group"
        }
      ]
    },
    {
      "code": "config",
      "list": [
        {
          "code": "min",
          "value": "0"
        },
        {
          "code": "max",
          "value": "1"
        },
        {
          "code": "input",
          "value": "select"
        },
        {
          "code": "seq",
          "value": "4"
        }
      ]
    }
  ]
}
  
```

```

    ],
  },
  {
    "id": "CG6",
    "descriptor": [
      {
        "name": "Choose Veggies (up to 1 option)"
      },
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "custom_group"
            }
          ]
        },
        {
          "code": "config",
          "list": [
            {
              "code": "min",
              "value": "0"
            },
            {
              "code": "max",
              "value": "1"
            },
            {
              "code": "input",
              "value": "select"
            },
            {
              "code": "seq",
              "value": "5"
            }
          ]
        }
      ]
    },
    {
      "id": "CG7",
      "descriptor": [
        {
          "name": "Choose Sauces (up to 1 option)"
        },
        "tags": [
          {
            "code": "type",
            "list": [
              {
                "code": "type",
                "value": "custom_group"
              }
            ]
          },
          {
            "code": "config",
            "list": [
              {
                "code": "min",
                "value": "0"
              },
              {
                "code": "max",
                "value": "1"
              },
              {
                "code": "input",
                "value": "select"
              },
              {
                "code": "seq",
                "value": "6"
              }
            ]
          }
        ]
      }
    }
  ]
}

```

```

        }
      ],
    },
    {
      "id": "CG8",
      "descriptor": {
        "name": "Choose Offers (up to 1 option)"
      },
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "custom_group"
            }
          ]
        },
        {
          "code": "config",
          "list": [
            {
              "code": "min",
              "value": "0"
            },
            {
              "code": "max",
              "value": "1"
            },
            {
              "code": "input",
              "value": "select"
            },
            {
              "code": "seq",
              "value": "7"
            }
          ]
        }
      ]
    },
    "items": [
      {
        "id": "I1",
        "time": {
          "label": "enable400",
          "timestamp": "2023-06-03T07:30:00.000Z401"
        },
        "descriptor": {
          "name": "Mexican Patty Sandwich",
          "symbol": "https://sellerNP.com/images/i1.png",
          "short_desc": "Mexican Patty Sandwich",
          "long_desc": "Mexican Patty Sandwich",
          "images": [
            "https://sellerNP.com/images/i1.png"
          ]
        },
        "quantity": {
          "unitized": {
            "measure": {
              "unit": "unit",
              "value": "1"
            }
          }
        }
      }
    ]
  }
}

```

<sup>400</sup> enum - "enable", "disable";

<sup>401</sup> timestamp for item event;

```

},
"available":
{
  "count":"99"
},
"maximum":
{
  "count":"99"
}
},
"price":
{
  "currency":"INR",
  "value":229.0,
  "maximum_value":229.0,
  "tags402":
  [
    {
      "code":"range",
      "list":
      [
        {
          "code":"lower",
          "value":229.00403
        },
        {
          "code":"upper",
          "value":718.00404
        }
      ]
    }
  ],
  "category_id":"F&B",
  "category_ids":
  [
    "5:1"
  ],
  "fulfillment_id":"F1",
  "location_id":L1",
  "related":false,
  "recommended":true,
  "@ondc/org/returnable":false,
  "@ondc/org/cancellable":false,
  "@ondc/org/return_window":PT1H,
  "@ondc/org/seller_pickup_return":false,
  "@ondc/org/time_to_ship":PT45M,
  "@ondc/org/available_on_cod":false,
  "@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":item"
        }
      ]
    },
    {
      "code":"custom_group",
      "list":
      [
        {
          "code":"id",
          "value":CG1"
        }
      ]
    },
    {
      "code":"timing"405,
    }
  ]
}

```

<sup>402</sup> (optional) upper & lower price range, for product created using this base item & customizations, for display on the store listing page;

<sup>403</sup> up to 2 decimal places;

<sup>404</sup> up to 2 decimal places;

<sup>405</sup> **item availability timing; if separate timing for each day, can create multiple such groups. If there is an overlap across these availability timing groups, the union of timings will be considered;**

```

"list":
[
  {
    "code":"day_from",
    "value":"1"
  },
  {
    "code":"day_to",
    "value":"5"
  },
  {
    "code":"time_from",
    "value":"1100"
  },
  {
    "code":"time_to",
    "value":"1500"
  }
],
{
  "code":"veg_nonveg",
  "list":
  [
    {
      "code":"veg",
      "value":"yes"
    }
  ]
},
{
  "id":"C1",
  "descriptor":
  {
    "name":"Mexican Bean Patty 15cm [6 inches]"
  },
  "quantity":
  {
    "unitized":
    {
      "measure":
      {
        "unit":"unit",
        "value":"1"
      }
    }
  },
  "available":
  {
    "count":"99"
  },
  "maximum":
  {
    "count":"99"
  }
},
"price":
{
  "currency":"INR",
  "value":"0.0",
  "maximum_value":"0.0"
},
"category_id":"F&B",
"related":true,
"tags":
[
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"customization"
      }
    ]
  },
  {
    "code":"parent",
    "list":
    [
  
```

```
{
  "code":"id",
  "value":"CG1"
},
{
  "code":"default",
  "value":"yes"
}
],
{
  "code":"child",
  "list":
  [
    {
      "code":"id",
      "value":"CG2"
    },
    {
      "code":"id",
      "value":"CG3"
    },
    {
      "code":"id",
      "value":"CG4"
    },
    {
      "code":"id",
      "value":"CG6"
    },
    {
      "code":"id",
      "value":"CG7"
    },
    {
      "code":"id",
      "value":"CG8"
    }
  ]
},
{
  "code":"veg_nonveg",
  "list":
  [
    {
      "code":"veg",
      "value":"yes"
    }
  ]
},
{
  "id":"C2",
  "descriptor":
  {
    "name":"Make Cheese Pull Mexican Patty 30cm"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"270.0",
    "maximum_value":"270.0"
  },
  "category_id":"F&B",
  "related":true,
  "tags":
  [
    {
      "code":"type",
      "value":"Food"
    }
  ]
}
```

```

"list":
[
  {
    "code":"type",
    "value":"customization"
  }
],
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG1"
    },
406
      "code":"default",
      "value":"no"
    }
  ],
{
  "code":"child",
  "list":
  [
    {
      "code":"id",
      "value":"CG2"
    },
    {
      "code":"id",
      "value":"CG5"
    },
    {
      "code":"id",
      "value":"CG7"
    },
    {
      "code":"id",
      "value":"CG8"
    }
  ]
},
{
  "code":"veg_nonveg",
  "list":
  [
    {
      "code":"veg",
      "value":"yes"
    }
  ]
},
{
  "id":"C3",
  "descriptor":
  {
    "name":"Multigrain Honey Oats"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"0.0",
    "maximum_value":"0.0"
  }
}
  
```

---

<sup>406</sup> default="no" is optional;

```

},
"category_id":"F&B",
"related":true,
"tags":
[
  {
    "code":"type",
    "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
  },
  {
    "code":"parent",
    "list":
      [
        {
          "code":"id",
          "value":"CG2"
        },
        {
          "code":"default",
          "value":"yes"
        }
      ]
  },
  {
    "code":"veg_nonveg",
    "list":
      [
        {
          "code":"veg",
          "value":"yes"
        }
      ]
  }
],
{
  "id":"C4",
  "descriptor":
  {
    "name":"Parmesan Oregano"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"0.0",
    "maximum_value":"0.0"
  },
  "category_id":"F&B",
  "related":true,
  "tags":
  [
    {
      "code":"type",
      "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
    },
    {
      "code":"parent",
      "list":
        [
          ...
        ]
    }
  ]
}
]
}

```

```
[
  {
    "code": "id",
    "value": "CG2"
  },
407 {
    "code": "default",
    "value": "no"
  }
],
{
  "code": "veg_nonveg",
  "list": [
    {
      "code": "veg",
      "value": "yes"
    }
  ]
},
{
  "id": "C5",
  "descriptor": {
    "name": "Plain bread"
  },
  "quantity": {
    "available": {
      "count": "99"
    },
    "maximum": {
      "count": "99"
    }
  },
  "price": {
    "currency": "INR",
    "value": "0.0",
    "maximum_value": "0.0"
  },
  "category_id": "F&B",
  "related": true,
  "tags": [
    {
      "code": "type",
      "list": [
        {
          "code": "type",
          "value": "customization"
        }
      ]
    },
    {
      "code": "parent",
      "list": [
        {
          "code": "id",
          "value": "CG3"
        },
        {
          "code": "default",
          "value": "yes"
        }
      ]
    },
    {
      "code": "veg_nonveg",
      "list": [

```

---

<sup>407</sup> optional

```
{
  "code":"veg",
  "value":"yes"
}
]
}
},
{
  "id":"C6",
  "descriptor":
  {
    "name":"Toasted bread"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"0.0",
    "maximum_value":"0.0"
  },
  "category_id":"F&B",
  "related":true,
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        },
        {
          "code":"default",
          "value":"no"
        }
      ]
    },
    {
      "code":"veg_nonveg",
      "list":
      [
        {
          "code":"veg",
          "value":"yes"
        }
      ]
    }
  },
  {
    "id":"C7",
    "descriptor":
    {
      "name":"Extra Cheese Slice"
    },
    "quantity":

```

---

<sup>408</sup> optional

```
{
  "available":
  {
    "count":"99"
  },
  "maximum":
  {
    "count":"99"
  }
},
"price":
{
  "currency":"INR",
  "value":"30.0",
  "maximum_value":"30.0"
},
"category_id":"F&B",
"related":true,
"tags":
[
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"customization"
      }
    ]
  },
  {
    "code":"parent",
    "list":
    [
      {
        "code":"id",
        "value":"CG4"
      }
    ]
  },
  {
    "code":"default",
    "value":"no"
  }
],
{
  "code":"veg_nonveg",
  "list":
  [
    {
      "code":"veg",
      "value":"yes"
    }
  ]
},
{
  "id":"C8",
  "descriptor":
  {
    "name":"Extra Mexican Bean Patty Footlong"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"120.0",
    "maximum_value":"120.0"
  }
}
```

---

<sup>409</sup> optional

```

},
"category_id": "F&B",
"related": true,
"tags":
[
  {
    "code": "type",
    "list":
      [
        {
          "code": "type",
          "value": "customization"
        }
      ]
  },
  {
    "code": "parent",
    "list":
      [
        {
          "code": "id",
          "value": "CG5"
        },
410 {
          "code": "default",
          "value": "no"
        }
      ]
  },
  {
    "code": "veg_nonveg",
    "list":
      [
        {
          "code": "veg",
          "value": "yes"
        }
      ]
  }
],
{
  "id": "C9",
  "descriptor":
  {
    "name": "Lettuce"
  },
  "quantity":
  {
    "available":
    {
      "count": "99"
    },
    "maximum":
    {
      "count": "99"
    }
  },
  "price":
  {
    "currency": "INR",
    "value": "0.0",
    "maximum_value": "0.0"
  },
  "category_id": "F&B",
  "related": true,
  "tags":
  [
    {
      "code": "type",
      "list":
        [
          {
            "code": "type",
            "value": "customization"
          }
        ]
    }
  ],
}

```

---

<sup>410</sup> optional

```
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG6"
    },
411    {
      "code":"default",
      "value":"no"
    }
  ],
  {
    "code":"veg_nonveg",
    "list":
    [
      {
        "code":"veg",
        "value":"yes"
      }
    ]
  },
  {
    "id":"C10",
    "descriptor":
    {
      "name":"Eggless Mayo"
    },
    "quantity":
    {
      "available":
      {
        "count":"99"
      },
      "maximum":
      {
        "count":"99"
      }
    },
    "price":
    {
      "currency":"INR",
      "value":"0.0",
      "maximum_value":"0.0"
    },
    "category_id":"F&B",
    "related":true,
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG7"
          },
412          {
            "code":"default",
            "value":"no"
          }
        ]
      },
    ],
  }
},
```

---

<sup>411</sup> optional

<sup>412</sup> optional

```
{
  "code": "veg_nonveg",
  "list": [
    {
      "code": "veg",
      "value": "yes"
    }
  ]
},
{
  "id": "C11",
  "descriptor": {
    "name": "Dark Chunk Choc Cookies"
  },
  "quantity": {
    "available": {
      "count": "99"
    },
    "maximum": {
      "count": "99"
    }
  },
  "price": {
    "currency": "INR",
    "value": "99.0",
    "maximum_value": "99.0"
  },
  "category_id": "F&B",
  "related": true,
  "tags": [
    {
      "code": "type",
      "list": [
        {
          "code": "type",
          "value": "customization"
        }
      ]
    },
    {
      "code": "parent",
      "list": [
        {
          "code": "id",
          "value": "CG8"413
        },
        {
          "code": "default",
          "value": "no"
        }
      ]
    },
    {
      "code": "veg_nonveg",
      "list": [
        {
          "code": "veg",
          "value": "yes"
        }
      ]
    }
  ],
  "tags": [
  ]
}
```

---

<sup>413</sup> optional

```
{
  "code": "order_value",
  "list":
  [
    {
      "code": "min_value",
      "value": "300.00"
    }
  ],
  {
    "code": "timing",
    "list":
    [
      {
        "code": "type",
        "value": "Order"
      },
      {
        "code": "location",
        "value": "L1"
      },
      {
        "code": "day_from",
        "value": "1"
      },
      {
        "code": "day_to",
        "value": "7"
      },
      {
        "code": "time_from",
        "value": "1000"
      },
      {
        "code": "time_to",
        "value": "2200"
      }
    ]
  },
  {
    "code": "timing",
    "list":
    [
      {
        "code": "type",
        "value": "Self-Pickup"
      },
      {
        "code": "location",
        "value": "L1"
      },
      {
        "code": "day_from",
        "value": "1"
      },
      {
        "code": "day_to",
        "value": "7"
      },
      {
        "code": "time_from",
        "value": "1000"
      },
      {
        "code": "time_to",
        "value": "2200"
      }
    ]
  },
  {
    "code": "timing",
    "list":
    [
      {
        "code": "type",
        "value": "Delivery"
      },
      {
        "code": "location",
        "value": "L1"
      }
    ]
  }
}
```

```

},
{
  "code":"day_from",
  "value":"1"
},
{
  "code":"day_to",
  "value":"7"
},
{
  "code":"time_from",
  "value":"1000"
},
{
  "code":"time_to",
  "value":"2200"
}
],
{
  "code":"close_timing414",
  "list":
  [
    {
      "code":"location",
      "value":"L1"
    },
    {
      "code":"start",
      "value":"2023-06-03T16:00:00.000Z"
    },
    {
      "code":"end415",
      "value":"2023-06-03T23:59:00.000Z"
    }
  ],
  "code":"serviceability",
  "list":
  [
    {
      "code":"location",
      "value":"L1"
    },
    {
      "code":"category",
      "value":"F&B"
    },
    {
      "code":"type",
      "value":"10"
    },
    {
      "code":"val",
      "value":"3"
    },
    {
      "code":"unit",
      "value":"km"
    }
  ]
}
}
}

```

---

<sup>414</sup> optional - may be provided if store close timing was earlier provided but the store info is being updated thru full refresh;  
<sup>415</sup> optional

### 3. F&B - (Veg & Non-Veg Pizza Combo)

| Choice of Crust (any 1 option)   | First Veg Half (any 1 option)  | Second Non-Veg Half (any 1 option)  |
|--|--|---|
| Pan Tossed;<br>(customization - C1, customization group - CG1, nested customization group - CG2, CG3)                  | Double Cheese Margherita;<br>(customization - C4, customization group - CG2) | Chicken Smokey Joe;<br>(customization - C8, customization group - CG3)      |
| Cheese Blast (₹99);<br>(customization - C2, customization group - CG1, nested customization group - CG2, CG3)          | Paneer Tikka (₹50);<br>(customization - C5, customization group - CG2)       | Peri Peri Chicken (₹40);<br>(customization - C9, customization group - CG3) |
| Chicken Cheese Blast (₹129);<br>(customization - C3, customization group - CG1, nested customization group - CG2, CG3) | Farmer's Market;<br>(customization - C6, customization group - CG2)          | BBQ Chicken (₹40);<br>(customization - C10, customization group - CG3)      |

In this example:

- Base price is ₹400 and all prices shown in the table above are incremental to the base price;
- Mandatory customizations - choice of crust, first veg half, second non-veg half;
- 1 item (SKU) will be defined for the product and all customizations defined as related items (with inventory, price, veg/non-veg attributes) linked to customization groups;
- Customization & Customization groups mapped above & defined in the payload below;

#### Payload

```
{
  "context": {
    "domain": "ONDC:RET11",
    "country": "IND",
    "city": "std:080",
    "action": "on_search",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:30.000Z"
  },
  "message": {
    "catalog": {
      "bpp/descriptor": {
        "name": "Seller NP",
        "symbol": "https://sellerNP.com/images/np.png",
        "short_desc": "Seller Marketplace",
        "long_desc": "Seller Marketplace",
        "images": [
          "https://sellerNP.com/images/np.png"
        ],
        "tags": [
          {
            "code": "bpp_terms",
            "list": [
              {
                "code": "np_type",
                "value": "ISN"416
              },
              {
                "code": "accept_bap_terms",
                "value": "true"
              }
            ]
          }
        ]
      }
    }
  }
}
```

<sup>416</sup> self-declaration of type of NP, enum - "ISN" (inventory seller), "MSN" (marketplace);

```

    "value":"Y"
  },
  {
    "code":"collect_payment417",
    "value":"Y418"
  }
]
},
"bpp/providers":
[
{
  "id":"P1",
  "time":
  {
    "label":"enable",
    "timestamp":"2023-06-03T08:00:30.000Z419"
  },
  "fulfillments":
  [
  {
    "id":"F1",
    "type":"Delivery",
    "contact":
    {
      "phone":9886098860,
      "email":abc@xyz.com"
    }
  },
  {
    "id":"F2",
    "type":"Self-Pickup",
    "contact":
    {
      "phone":9886098860,
      "email":abc@xyz.com"
    }
  },
  {
    "id":"F3",
    "type":"Buyer-Delivery",
    "contact":
    {
      "phone":9886098860,
      "email":abc@xyz.com"
    }
  }
],
"descriptor":
{
  "name":"Store 1",
  "symbol":"https://sellerNP.com/images/store1.png",
  "short_desc":"Store 1",
  "long_desc":"Store 1",
  "images":
  [
    "https://sellerNP.com/images/store1.png"
  ],
  "@ondc/org/fssai_license_no":"12345678901234",
  "ttl":"P1D",
  "locations":
  [
  {
    "id":"L1",
    "time":
    {
      "label":"enable420",

```

<sup>417</sup> optional - may be provided if seller NP wants to collect payment;

<sup>418</sup> enum - "Y" (yes), "N" (no);

<sup>419</sup> timestamp when the snapshot for this provider was generated. Buyer NPs can use this to determine from when to start incremental refresh;

<sup>420</sup> enum - "enable" (default), "disable" (soft delete of provider location, i.e. warehouse or store from buyer NP cache - in this case, serviceability for the store should not be a part of the catalog), "close" (temporary closure of store with the same format for time.range as specified, for incremental refresh, [here](#) - only if this event is available at the time of generating the full catalog snapshot), "open" (reopening of store when the store was previously closed for an indefinite time); if store close timing was

```

  "timestamp":"2023-06-03T07:30:30.000Z421",
  "days":"1,2,3,4,5,6,7",
  "schedule":
  {
    "holidays":
    [
      "2023-08-15"
    ],
    "frequency":"PT4H",
    "times":
    [
      "1100",
      "1900"
    ]
  },
  "range":
  {
    "start":"1100",
    "end":"2100"
  }
},
"gps":"12.967555,77.749666",
"address":
{
  "locality":"Jayanagar",
  "street":"Jayanagar 4th Block",
  "city":"Bengaluru",
  "area_code":"560076",
  "state":"KA"
},
"circle":
{
  "gps":"12.967555,77.749666",
  "radius":
  {
    "unit":"km",
    "value":3
  }
},
"categories":
[
  {
    "id":"5",
    "parent_category_id":"",
    "descriptor":
    {
      "name":"Pizza",
      "short_desc":"Veg and Non-Veg pizza",
      "long_desc":"American and Italian Veg and Non-Veg Pizza",
      "images":
      [
        "https://sellerNP.com/ondc/m005.png"
      ],
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"custom_menu"
            }
          ]
        },
        {
          "code":"timing",
          "list":
          [
            {
              "code":"day_from",
              "value":1
            },
            {
              "code":"day_to",
              "value":7
            }
          ]
        }
      ]
    }
  }
]
  
```

provided previously and store info is being updated thru "enable", provider.tags.close\_timing may be used to provide the store close timing;

<sup>421</sup> timestamp when the snapshot for location was generated, must be <= Context.timestamp;

```
{
  "code":"day_to",
  "value":"5"
},
{
  "code":"time_from",
  "value":"1800"
},
{
  "code":"time_to",
  "value":"2200"
}
],
{
  "code":"display",
  "list":
  [
    {
      "code":"rank",
      "value":"3"
    }
  ]
},
{
  "id":"CG1",
  "descriptor":
  {
    "name":"Choice of Crust (any 1 option)"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"custom_group"
        }
      ]
    },
    {
      "code":"config",
      "list":
      [
        {
          "code":"min",
          "value":"1"
        },
        {
          "code":"max",
          "value":"1"
        },
        {
          "code":"input",
          "value":"select"
        },
        {
          "code":"seq",
          "value":"1"
        }
      ]
    }
  ],
  {
    "id":"CG2",
    "descriptor":
    {
      "name":"First Veg Half (any 1 option)"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"custom_group"
          }
        ]
      }
    ]
  }
}
```

```

    "code":"type",
    "value":"custom_group"
  }
},
{
  "code":"config",
  "list":
  [
    {
      "code":"min",
      "value":"1"
    },
    {
      "code":"max",
      "value":"1"
    },
    {
      "code":"input",
      "value":"select"
    },
    {
      "code":"seq",
      "value":"2"
    }
  ]
},
{
  "id":"CG3",
  "descriptor":
  {
    "name":"Second Non-Veg Half (any 1 option)"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"custom_group"
        }
      ],
      "code":"config",
      "list":
      [
        {
          "code":"min",
          "value":"1"
        },
        {
          "code":"max",
          "value":"1"
        },
        {
          "code":"input",
          "value":"select"
        },
        {
          "code":"seq",
          "value":"3"
        }
      ]
    }
  ],
  "items":
  [
    {
      "id":"I1",
      "time":{


```

```

  "label":"enable422,
  "timestamp":"2023-06-03T07:30:00.000Z423"
},
"descriptor":
{
  "name":"Veg & Non-Veg Pizza (Combo)",
  "symbol":"https://sellerNP.com/images/i1.png",
  "short_desc":"Veg & Non-Veg Pizza (Combo)",
  "long_desc":"Veg & Non-Veg Pizza (Combo)",
  "images":
  [
    "https://sellerNP.com/images/i1.png"
  ],
  "quantity":
  {
    "unitized":
    {
      "measure":
      {
        "unit":"unit",
        "value":"1"
      }
    },
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"400.0",
    "maximum_value":"400.0",
    "tags424":
    [
      {
        "code":"range",
        "list":
        [
          {
            "code":"lower",
            "value":"400.00"425
          },
          {
            "code":"upper",
            "value":"619.00"426
          }
        ]
      }
    ],
    "category_id":"F&B",
    "category_ids":
    [
      "5:1"
    ],
    "fulfillment_id":"F1",
    "location_id":"L1",
    "related":false,
    "recommended":true,
    "@ondc/org/returnable":false,
    "@ondc/org/cancellable":false,
    "@ondc/org/return_window":"PT1H",
    "@ondc/org/seller_pickup_return":false,
    "@ondc/org/time_to_ship":"PT45M",
    "@ondc/org/available_on_cod":false,
    "@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
    "tags":
```

<sup>422</sup> enum - "enable", "disable";

<sup>423</sup> timestamp for item event;

<sup>424</sup> (optional) upper & lower price range, for product created using this base item & customizations, for display on the store listing page;

<sup>425</sup> up to 2 decimal places;

<sup>426</sup> up to 2 decimal places;

```
[
  {
    "code": "type",
    "list": [
      {
        "code": "type",
        "value": "item"
      }
    ],
    {
      "code": "custom_group",
      "list": [
        {
          "code": "id",
          "value": "CG1"
        },
        {
          "code": "id",
          "value": "CG2"
        },
        {
          "code": "id",
          "value": "CG3"
        }
      ]
    },
    {
      "code": "timing427",
      "list": [
        {
          "code": "day_from",
          "value": "1"
        },
        {
          "code": "day_to",
          "value": "5"
        },
        {
          "code": "time_from",
          "value": "1800"
        },
        {
          "code": "time_to",
          "value": "2200"
        }
      ]
    },
    {
      "code": "veg_nonveg",
      "list": [
        {
          "code": "veg",
          "value": "yes"
        }
      ]
    }
  ],
  {
    "id": "C1",
    "descriptor": {
      "name": "Pan Tossed"
    },
    "quantity": {
      "unitized": {
        "measure": {
          "unit": "unit",
          "value": "1"
        }
      }
    }
  }
]
```

<sup>427</sup> item availability timing; if separate timing for each day, can create multiple such groups. If there is an overlap across these availability timing groups, the union of timings will be considered;

```

    },
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"0.0",
    "maximum_value":"0.0"
  },
  "category_id":"F&B",
  "related":true,
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG1"
        },
        {
          "code":"default",
          "value":"yes"
        }
      ]
    },
    {
      "code":"child",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        },
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    },
    {
      "code":"veg_nonveg",
      "list":
      [
        {
          "code":"veg",
          "value":"yes"
        }
      ]
    }
  },
  {
    "id":"C2",
    "descriptor":
    {
      "name":"Cheese Blast"
    },
    "quantity":
    {
      "available":
      {
        "count":99
      }
    }
  }
]
}

```

```

    "count":"99"
},
"maximum":
{
  "count":"99"
}
},
"price":
{
  "currency":"INR",
  "value":"99.0",
  "maximum_value":"99.0"
},
"category_id":"F&B",
"related":true,
"tags":
[
  {
    "code":"type",
    "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
    "code":"parent",
    "list":
      [
        {
          "code":"id",
          "value":"CG1"
        },
        {
          "code":"default",
          "value":"no"
        }
      ]
  },
  {
    "code":"child",
    "list":
      [
        {
          "code":"id",
          "value":"CG2"
        },
        {
          "code":"id",
          "value":"CG3"
        }
      ]
  },
  {
    "code":"veg_nonveg",
    "list":
      [
        {
          "code":"veg",
          "value":"yes"
        }
      ]
  }
],
{
  "id":"C3",
  "descriptor":
  {
    "name":"Chicken Cheese Blast"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    }
  }
}

```

---

<sup>428</sup> optional



```
},
"maximum":
{
  "count":"99"
}
},
"price":
{
  "currency":"INR",
  "value":"129.0",
  "maximum_value":"129.0"
},
"category_id":"F&B",
"related":true,
"tags":
[
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"customization"
      }
    ]
  },
  {
    "code":"parent",
    "list":
    [
      {
        "code":"id",
        "value":"CG1"
      },
      {
        "code":"default",
        "value":"no"
      }
    ]
  },
  {
    "code":"child",
    "list":
    [
      {
        "code":"id",
        "value":"CG2"
      },
      {
        "code":"id",
        "value":"CG3"
      }
    ]
  },
  {
    "code":"veg_nonveg",
    "list":
    [
      {
        "code":"non_veg",
        "value":"yes"
      }
    ]
  }
],
{
  "id":"C4",
  "descriptor":
  {
    "name":"Double Cheese Margherita"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  }
}
```

```

    },
    "price":
    {
      "currency":"INR",
      "value":"0.0",
      "maximum_value":"0.0"
    },
    "category_id":"F&B",
    "related":true,
    "tags":
    [
      {
        "code":"type",
        "list":
          [
            {
              "code":"type",
              "value":"customization"
            }
          ]
      },
      {
        "code":"parent",
        "list":
          [
            {
              "code":"id",
              "value":"CG2"
            },
            {
              "code":"default",
              "value":"yes"
            }
          ]
      },
      {
        "code":"veg_nonveg",
        "list":
          [
            {
              "code":"veg",
              "value":"yes"
            }
          ]
      }
    ],
    {
      "id":"C5",
      "descriptor":
      {
        "name":"Paneer Tikka"
      },
      "quantity":
      {
        "available":
        {
          "count":"99"
        },
        "maximum":
        {
          "count":"99"
        }
      },
      "price":
      {
        "currency":"INR",
        "value":"50.0",
        "maximum_value":"50.0"
      },
      "category_id":"F&B",
      "related":true,
      "tags":
      [
        {
          "code":"type",
          "list":
            [
              {
                "code":"type",

```

```

    "value":"customization"
  }
],
},
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG2"
    },
    {
      "code":"default",
      "value":"no"
    }
  ]
},
{
  "code":"veg_nonveg",
  "list":
  [
    {
      "code":"veg",
      "value":"yes"
    }
  ]
},
{
  "id":"C6",
  "descriptor":
  {
    "name":"Farmer's Market"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"0.0",
    "maximum_value":"0.0"
  },
  "category_id":"F&B",
  "related":true,
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        },
        {
          "code":"default",
          "value":"no"
        }
      ]
    },
  ]
},

```

```
{
  "code": "veg_nonveg",
  "list": [
    {
      "code": "veg",
      "value": "yes"
    }
  ]
},
{
  "id": "C7",
  "descriptor": {
    "name": "Spicy Mexicano"
  },
  "quantity": {
    "available": {
      "count": "99"
    },
    "maximum": {
      "count": "99"
    }
  },
  "price": {
    "currency": "INR",
    "value": "50.0",
    "maximum_value": "50.0"
  },
  "category_id": "F&B",
  "related": true,
  "tags": [
    {
      "code": "type",
      "list": [
        {
          "code": "type",
          "value": "customization"
        }
      ]
    },
    {
      "code": "parent",
      "list": [
        {
          "code": "id",
          "value": "CG2"
        },
        {
          "code": "default",
          "value": "no"
        }
      ]
    },
    {
      "code": "veg_nonveg",
      "list": [
        {
          "code": "veg",
          "value": "yes"
        }
      ]
    }
  ],
  "id": "C8",
  "descriptor": {
    "name": "Chicken Smokey Joe"
  },
}
```

```

"quantity":
{
  "available":
  {
    "count":"99"
  },
  "maximum":
  {
    "count":"99"
  }
},
"price":
{
  "currency":"INR",
  "value":"0.0",
  "maximum_value":"0.0"
},
"category_id":"F&B",
"related":true,
"tags":
[
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"customization"
      }
    ]
  },
  {
    "code":"parent",
    "list":
    [
      {
        "code":"id",
        "value":"CG3"
      },
      {
        "code":"default",
        "value":"yes"
      }
    ]
  },
  {
    "code":"veg_nonveg",
    "list":
    [
      {
        "code":"non_veg",
        "value":"yes"
      }
    ]
  }
],
{
  "id":"C9",
  "descriptor":
  {
    "name":"Peri Peri Chicken"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"40.0",
    "maximum_value":"40.0"
  },
  "category_id":"F&B",
}

```

```

"related":true,
"tags":
[
  {
    "code":"type",
    "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
  },
  {
    "code":"parent",
    "list":
      [
        {
          "code":"id",
          "value":"CG3"
        },
        {
          "code":"default",
          "value":"no"
        }
      ]
  },
  {
    "code":"veg_nonveg",
    "list":
      [
        {
          "code":"non_veg",
          "value":"yes"
        }
      ]
  }
],
{
  "id":"C10",
  "descriptor":
  {
    "name":"BBQ Chicken"
  },
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"40.0",
    "maximum_value":"40.0"
  },
  "category_id":"F&B",
  "related":true,
  "tags":
  [
    {
      "code":"type",
      "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
    },
    {
      "code":"parent",
      "list":
        [
          {
            "code":"id",
            "value":"CG3"
          },
          {
            "code":"default",
            "value":"no"
          }
        ]
    }
  ]
}

```

```

    "code":"id",
    "value":"CG3"
  },
  {
    "code":"default",
    "value":"no"
  }
],
{
  "code":"veg_nonveg",
  "list":
  [
    {
      "code":"non_veg",
      "value":"yes"
    }
  ]
},
"tags":
[
  {
    "code":"order_value",
    "list":
    [
      {
        "code":"min_value",
        "value":"300.00"
      }
    ],
    "code":"timing",
    "list":
    [
      {
        "code":"type",
        "value":"Order"
      },
      {
        "code":"location",
        "value": "L1"
      },
      {
        "code":"day_from",
        "value": "1"
      },
      {
        "code":"day_to",
        "value": "7"
      },
      {
        "code":"time_from",
        "value": "1000"
      },
      {
        "code":"time_to",
        "value": "2200"
      }
    ],
    "code":"timing",
    "list":
    [
      {
        "code":"type",
        "value": "Self-Pickup"
      },
      {
        "code":"location",
        "value": "L1"
      },
      {
        "code":"day_from",
        "value": "1"
      }
    ]
  }
]

```

```

    "code":"day_to",
    "value":"7"
  },
  {
    "code":"time_from",
    "value":"1000"
  },
  {
    "code":"time_to",
    "value":"2200"
  }
],
{
  "code":"timing",
  "list":
  [
    {
      "code":"type",
      "value":"Delivery"
    },
    {
      "code":"location",
      "value":"L1"
    },
    {
      "code":"day_from",
      "value":"1"
    },
    {
      "code":"day_to",
      "value":"7"
    },
    {
      "code":"time_from",
      "value":"1000"
    },
    {
      "code":"time_to",
      "value":"2200"
    }
  ],
  {
    "code":"close_timing"429,
    "list":
    [
      {
        "code":"location",
        "value":"L1"
      },
      {
        "code":"start",
        "value":"2023-06-03T16:00:00.000Z"
      },
      {
        "code":"end"430,
        "value":"2023-06-03T23:59:00.000Z"
      }
    ]
  },
  {
    "code":"serviceability",
    "list":
    [
      {
        "code":"location",
        "value":"L1"
      },
      {
        "code":"category",
        "value":"F&B"
      },
      {
        "code":"type",
        "value":"13431"
      }
    ]
  }
]

```

<sup>429</sup> optional - may be provided if store close timing was earlier provided but the store info is being updated thru full refresh;

<sup>430</sup> optional

<sup>431</sup> **polygon serviceability;**

```

},
{
  "code":"unit",
  "value":"geojson432"
},
{
  "code":"val",
  "value": "{\"type\": \"FeatureCollection\", \"features\": [{}], \"geometry\": {
    \"coordinates\": [[[77.436651, 14.623085], [75.597353, 13.250722], [76.835955, 11.932994], [78.770939, 11.329016]], [
      [[75.694892, 15.992882], [74.831999, 14.851566], [77.400610, 15.122951], [75.694892, 15.992882]]]}], \"type\": \"MultiPolygon\"}]}433
},
{
  "code":"day_from434",
  "value":"1"
},
{
  "code":"day_to",
  "value":"7"
},
{
  "code":"time_from",
  "value":"1000"
},
{
  "code":"time_to",
  "value":"2200"
}
]
}
]
}
}

```

<sup>432</sup> enum - "geojson";

<sup>433</sup> GeoJSON polygon (check [here](#) & [here](#)), gps coordinates with minimum 6 decimal precision;

<sup>434</sup> **serviceability timing ("day\_from", "day\_to", "time\_from", "time\_to") - optional and only required if serviceability varies based on day & time; if not provided, serviceability will apply for store timing;**

#### 4. Fashion

Consider the following example:

This will be defined as 7 separate SKUs grouped together. Buyer NPs may choose to render as individual SKUs or as grouped;

| Name                    | Colour | Size | Price | MRP  | Item ID |
|-------------------------|--------|------|-------|------|---------|
| Allen Solly Men T-shirt | Coral  | S    | ₹579  | ₹999 | I1      |
|                         |        | M    | ₹538  | ₹999 | I2      |
|                         |        | L    | ₹569  | ₹999 | I3      |
|                         | Green  | 2XL  | ₹948  | ₹999 | I4      |
|                         | Yellow | L    | ₹589  | ₹999 | I5      |
|                         |        | XL   | ₹789  | ₹999 | I6      |
|                         |        | 2XL  | ₹689  | ₹999 | I7      |

#### Payload

```
{
  "context": {
    "domain": "ONDC:RET12",
    "country": "IND",
    "city": "std:080",
    "action": "on_search",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:30.000Z"
  },
  "message": {
    "catalog": {
      "bpp/descriptor": {
        "name": "Seller NP",
        "symbol": "https://sellerNP.com/images/np.png",
        "short_desc": "Seller Marketplace",
        "long_desc": "Seller Marketplace",
        "images": [
          "https://sellerNP.com/images/np.png"
        ],
        "tags": [
          {
            "code": "bpp_terms",
            "list": [
              {
                "code": "np_type",
                "value": "MSN"435
              },
              {
                "code": "accept_bap_terms",
                "value": "Y"
              }
            ]
          }
        ]
      }
    }
  }
}
```

<sup>435</sup> self-declaration of type of NP, enum - "ISN" (inventory seller), "MSN" (marketplace);

```

    "code":"collect_payment436,
    "value":"Y437"
  }
}
},
"bpp/providers":
[
{
  "id":"P1",
  "time":
  {
    "label":"enable",
    "timestamp":"2023-06-03T08:00:30.000Z438"
  },
  "fulfillments":
  [
  {
    "id":"F1",
    "type":"Delivery",
    "contact":
    {
      "phone":"9886098860",
      "email":"abc@xyz.com"
    }
  }
],
"descriptor":
{
  "name":"Store 1",
  "symbol":"https://sellerNP.com/images/store1.png",
  "short_desc":"Store 1",
  "long_desc":"Store 1",
  "images":
  [
    "https://sellerNP.com/images/store1.png"
  ],
  "ttl":"P1D",
  "locations":
  [
  {
    "id":"L1",
    "time":
    {
      "label":"enable439",
      "timestamp":"2023-06-03T07:30:30.000Z440",
      "days":"1,2,3,4,5,6,7",
      "schedule":
      {
        "holidays":
        [
          "2023-08-15"
        ],
        "frequency":"PT4H",
        "times":
        [
          "1100",
          "1900"
        ]
      },
      "range":
      {
        "start":"1100",
        "end":"2100"
      }
    },
    "gps":"12.967555,77.749666",
  }
}

```

<sup>436</sup> optional - may be provided if seller NP wants to collect payment;

<sup>437</sup> enum - "Y" (yes), "N" (no);

<sup>438</sup> **timestamp when the snapshot for this provider was generated. Buyer NPs can use this to determine from when to start incremental refresh;**

<sup>439</sup> enum - "enable" (default), "disable" (soft delete of provider location, i.e. warehouse or store from buyer NP cache - in this case, serviceability for the store should not be a part of the catalog), "close" (temporary closure of store with the same format for time.range as specified, for incremental refresh, [here](#) - only if this event is available at the time of generating the full catalog snapshot), "open" (reopening of store when the store was previously closed for an indefinite time);

<sup>440</sup> **timestamp when the snapshot for location was generated, must be <= Context.timestamp;**

```

"address":
{
  "locality":"Jayanagar",
  "street":"Jayanagar 4th Block",
  "city":"Bengaluru",
  "area_code":"560076",
  "state":"KA"
},
"circle":
{
  "gps":"12.967555,77.749666",
  "radius":
  {
    "unit":"km",
    "value":3
  }
}
],
"categories":
[
{
  "id":"V1",
  "descriptor":
  {
    "name":"Variant Group 1"
  },
  "tags":
  [
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"variant_group"
      }
    ],
    "code":"attr",
    "list":
    [
      {
        "code":"name",
        "value":item.tags.attribute.colour
      },
      {
        "code":"seq",
        "value":1
      }
    ],
    "code":"attr",
    "list":
    [
      {
        "code":"name",
        "value":item.tags.attribute.size
      },
      {
        "code":"seq",
        "value":2
      }
    ]
  }
},
"items":
[
{
  "id":"I1",
  "time":
  {
    "label":"enable441",

```

<sup>441</sup> enum - "enable", "disable";

```

  "timestamp":"2023-06-03T07:30:00.000Z442"}
},
"parent_item_id":"V1443",
"descriptor":
{
  "name":"Allen Solly Men T-shirt",
  "code444:"4:XXXXXXX",
  "symbol": "https://sellerNP.com/images/i1.png",
  "short_desc":"Allen Solly Men T-shirt",
  "long_desc":"Allen Solly Men T-shirt",
  "images":
  [
    "https://sellerNP.com/images/i1.png"
  ]
},
"quantity":
{
  "unitized":
  {
    "measure":
    {
      "unit":"unit",
      "value":"1"
    }
  },
  "available":
  {
    "count":"99"
  },
  "maximum":
  {
    "count":"99"
  }
},
"price":
{
  "currency":"INR",
  "value":"579.00",
  "maximum_value":"999.0"
},
"category_id":"T Shirts445,
"fulfillment_id":"F1",
"location_id":"L1",
"@ondc/org/returnable":true,
"@ondc/org/cancellable":true,
"@ondc/org/return_window":"P7D",
"@ondc/org/seller_pickup_return":true,
"@ondc/org/time_to_ship":"P1D",
"@ondc/org/available_on_cod":false,
"@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
"@ondc/org/statutory_reqs_packaged_commodities446:
{
  "manufacturer_or_packer_name":"Aditya Birla Fashion & Retail Ltd",
  "manufacturer_or_packer_address":"Building 2, Divyasree Technopolis, Off HAL Airport Road, Bengaluru-560037",
  "common_or_generic_name_of_commodity":"Polo",
  "month_year_of_manufacture_packing_import":"01/2017447"
},
"tags":
[
  {
    "code": "origin",
    "list":
    [
      {
        "code": "country",
        "value": "IND"
      }
    ]
  }
]

```

<sup>442</sup> timestamp for item event;

<sup>443</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

<sup>444</sup> network-wide unique code for item which will be in this format - "type:code" where type is 1 - EAN, 2 - ISBN, 3 - GTIN, 4 - HSN, 5 - others;

<sup>445</sup> list of fashion categories is [here](#);

<sup>446</sup> attributes for categories defined [here](#);

<sup>447</sup> date first available;

```

"code":"attribute448,
"list":
[
  {
    "code":"gender",
    "value":"male"
  },
  {
    "code":"colour449,
    "value": "#FF7F50"
  },
  {
    "code":"colour_name450,
    "value": "Coral"
  },
  {
    "code":"size",
    "value": "S"
  },
  {
    "code":"brand",
    "value": "Allen Solly"
  },
  {
    "code":"size_chart",
    "value": "https://sellerNP.com/images/i1_size_chart.png"
  },
  {
    "code":"fabric",
    "value": "cotton"
  }
]
},
{
  "id": "I2",
  "parent_item_id": "V1451",
  "descriptor":
  {
    "name": "Allen Solly Men T-shirt",
    "code": "4:XXXXXXXX",
    "symbol": "https://sellerNP.com/images/i2.png",
    "short_desc": "Allen Solly Men T-shirt",
    "long_desc": "Allen Solly Men T-shirt",
    "images":
    [
      "https://sellerNP.com/images/i2.png"
    ]
  },
  "quantity":
  {
    "unitized":
    {
      "measure":
      {
        "unit": "unit",
        "value": "1"
      }
    }
  },
  "available":
  {
    "count": "99"
  },
  "maximum":
  {
    "count": "99"
  }
},
"price":
{
  "currency": "INR",
  "value": "538.00",
  "maximum_value": "999.0"
}

```

<sup>448</sup> item attributes defined here (mapping of attributes to keys e.g. "Size Chart" => "size\_chart"), suggestive enum here;

<sup>449</sup> hex value for colour; in some cases, where hex code may not be available (e.g. black & white, pride), value can be optional;

<sup>450</sup> colour name needs to be provided if colour hex code specified;

<sup>451</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

```

},
"category_id":"T Shirts",
"fulfillment_id":"F1",
"location_id":"L1",
"@ondc/org/returnable":true,
"@ondc/org/cancellable":true,
"@ondc/org/return_window":"P7D",
"@ondc/org/seller_pickup_return":true,
"@ondc/org/time_to_ship":"P1D",
"@ondc/org/available_on_cod":false,
"@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
"@ondc/org/statutory_reqs_packaged_commodities452":
{
  "manufacturer_or_packer_name": "Aditya Birla Fashion & Retail Ltd",
  "manufacturer_or_packer_address": "Building 2, Divyasree Technopolis, Off HAL Airport Road, Bengaluru-560037",
  "common_or_generic_name_of_commodity": "Polo",
  "month_year_of_manufacture_packing_import": "01/2017453"
},
"tags":
[
  {
    "code": "origin",
    "list":
      [
        {
          "code": "country",
          "value": "IND"
        }
      ]
  },
  {
    "code": "attribute",
    "list":
      [
        {
          "code": "gender",
          "value": "male"
        },
        {
          "code": "colour",
          "value": "#FF7F50"
        },
        {
          "code": "colour_name",
          "value": "Coral"
        },
        {
          "code": "size",
          "value": "M"
        },
        {
          "code": "brand",
          "value": "Allen Solly"
        },
        {
          "code": "size_chart",
          "value": "https://sellerNP.com/images/i2_size_chart.png"
        },
        {
          "code": "fabric",
          "value": "cotton"
        }
      ]
  }
],
{
  "id": "I3",
  "parent_item_id": "V1454",
  "descriptor":
  {
    "name": "Allen Solly Men T-shirt",
    "code": "4XXXXXXXXX",
    "symbol": "https://sellerNP.com/images/i3.png",
    "short_desc": "Allen Solly Men T-shirt",
  }
}
]
}

```

<sup>452</sup> mapping of category to attribute key is defined [here](#);

<sup>453</sup> date first available;

<sup>454</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

```

"long_desc":"Allen Solly Men T-shirt",
"images":
[
  "https://sellerNP.com/images/i3.png"
],
"quantity":
{
  "unitized":
  {
    "measure":
    {
      "unit":"unit",
      "value":"1"
    }
  },
  "available":
  {
    "count":"99"
  },
  "maximum":
  {
    "count":"99"
  }
},
"price":
{
  "currency":"INR",
  "value":"569.00",
  "maximum_value":"999.0"
},
"category_id":"T Shirts",
"fulfillment_id":"F1",
"location_id":"L1",
"@ondc/org/returnable":true,
"@ondc/org/cancellable":true,
"@ondc/org/return_window":P7D,
"@ondc/org/seller_pickup_return":true,
"@ondc/org/time_to_ship":P1D,
"@ondc/org/available_on_cod":false,
"@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
"@ondc/org/statutory_reqs_packaged_commodities455:
{
  "manufacturer_or_packer_name":"Aditya Birla Fashion & Retail Ltd",
  "manufacturer_or_packer_address":"Building 2, Divyasree Technopolis, Off HAL Airport Road, Bengaluru-560037",
  "common_or_generic_name_of_commodity":"Polo",
  "month_year_of_manufacture_packing_import":01/2017456
},
"tags":
[
  {
    "code":"origin",
    "list":
    [
      {
        "code":"country",
        "value":"IND"
      }
    ]
  },
  {
    "code":"attribute",
    "list":
    [
      {
        "code":"gender",
        "value":"male"
      },
      {
        "code":"colour",
        "value": "#FF7F50"
      },
      {
        "code":"colour_name",
        "value":"Coral"
      }
    ]
  }
]
  
```

<sup>455</sup> mapping of category to attribute key is defined [here](#);

<sup>456</sup> date first available;

```

    "code":"size",
    "value":"L"
  },
  {
    "code":"brand",
    "value":"Allen Solly"
  },
  {
    "code":"size_chart",
    "value":"https://sellerNP.com/images/i3_size_chart.png"
  },
  {
    "code":"fabric",
    "value":"cotton"
  }
]
},
{
  "id":"I4",
  "parent_item_id":"V1457",
  "descriptor":
  {
    "name":"Allen Solly Men T-shirt",
    "code":"4XXXXXXXXX",
    "symbol": "https://sellerNP.com/images/i4.png",
    "short_desc":"Allen Solly Men T-shirt",
    "long_desc":"Allen Solly Men T-shirt",
    "images":
    [
      "https://sellerNP.com/images/i4.png"
    ]
  },
  "quantity":
  {
    "unitized":
    {
      "measure":
      {
        "unit":"unit",
        "value":"1"
      }
    },
    "available":
    {
      "count":99
    },
    "maximum":
    {
      "count":99
    }
  },
  "price":
  {
    "currency":"INR",
    "value":948.0,
    "maximum_value":999.0
  },
  "category_id":"T Shirts",
  "fulfillment_id":"F1",
  "location_id":"L1",
  "@ondc/org/returnable":true,
  "@ondc/org/cancellable":true,
  "@ondc/org/return_window":"P7D",
  "@ondc/org/seller_pickup_return":true,
  "@ondc/org/time_to_ship":"P1D",
  "@ondc/org/available_on_cod":false,
  "@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
  "@ondc/org/statutory_reqs_packaged_commodities458":
  {
    "manufacturer_or_packer_name":"Aditya Birla Fashion & Retail Ltd",
    "manufacturer_or_packer_address":"Building 2, Divyasree Technopolis, Off HAL Airport Road, Bengaluru-560037",
    "common_or_generic_name_of_commodity":"Polo",
    "month_year_of_manufacture_packing_import":"01/2017"459
  }
}

```

<sup>457</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

<sup>458</sup> mapping of category to attribute key is defined [here](#):

<sup>459</sup> date first available;



```
},
"tags":
[
{
  "code":"origin",
  "list":
  [
    {
      "code":"country",
      "value":"IND"
    }
  ]
},
{
  "code":"attribute",
  "list":
  [
    {
      "code":"gender",
      "value":"male"
    },
    {
      "code":"colour",
      "value": "#008000"
    },
    {
      "code":"colour_name",
      "value": "Green"
    },
    {
      "code":"size",
      "value": "2XL"
    },
    {
      "code":"brand",
      "value": "Allen Solly"
    },
    {
      "code":"size_chart",
      "value": "https://sellerNP.com/images/i4_size_chart.png"
    },
    {
      "code":"fabric",
      "value": "cotton"
    }
  ]
},
{
  "id": "i5",
  "parent_item_id": "V1460",
  "descriptor":
  {
    "name": "Allen Solly Men T-shirt",
    "code": "4:XXXXXXXXX",
    "symbol": "https://sellerNP.com/images/i5.png",
    "short_desc": "Allen Solly Men T-shirt",
    "long_desc": "Allen Solly Men T-shirt",
    "images":
    [
      "https://sellerNP.com/images/i5.png"
    ]
  },
  "quantity":
  {
    "unitized":
    {
      "measure":
      {
        "unit": "unit",
        "value": "1"
      }
    }
  },
  "available":
  {
    "count": "99"
  }
}
```

<sup>460</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

```

},
"maximum":
{
  "count":"99"
}
},
"price":
{
  "currency":"INR",
  "value":"589.0",
  "maximum_value":"999.0"
},
"category_id":"T Shirts",
"fulfillment_id":"F1",
"location_id":"L1",
"@ondc/org/returnable":true,
"@ondc/org/cancellable":true,
"@ondc/org/return_window":"P7D",
"@ondc/org/seller_pickup_return":true,
"@ondc/org/time_to_ship":"P1D",
"@ondc/org/available_on_cod":false,
"@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
"@ondc/org/statutory_reqs_packaged_commodities461":
{
  "manufacturer_or_packer_name":"Aditya Birla Fashion & Retail Ltd",
  "manufacturer_or_packer_address":"Building 2, Divyasree Technopolis, Off HAL Airport Road, Bengaluru-560037",
  "common_or_generic_name_of_commodity":"Polo",
  "month_year_of_manufacture_packing_import":"01/2017462"
},
"tags":
[
  {
    "code":"origin",
    "list":
      [
        {
          "code":"country",
          "value":"IND"
        }
      ]
  },
  {
    "code":"attribute",
    "list":
      [
        {
          "code":"gender",
          "value":"male"
        },
        {
          "code":"colour",
          "value":"#FFFF00"
        },
        {
          "code":"colour_name",
          "value":"Yellow"
        },
        {
          "code":"size",
          "value":"L"
        },
        {
          "code":"brand",
          "value":"Allen Solly"
        },
        {
          "code":"size_chart",
          "value":"https://sellerNP.com/images/i5_size_chart.png"
        },
        {
          "code":"fabric",
          "value":"cotton"
        }
      ]
  }
],
}
},

```

<sup>461</sup> mapping of category to attribute key is defined [here](#);

<sup>462</sup> date first available;

```
{
  "id":"I6",
  "parent_item_id":"V1463",
  "descriptor":
  {
    "name":"Allen Solly Men T-shirt",
    "code":"4:XXXXXXXX",
    "symbol":"https://sellerNP.com/images/i6.png",
    "short_desc":"Allen Solly Men T-shirt",
    "long_desc":"Allen Solly Men T-shirt",
    "images":
    [
      "https://sellerNP.com/images/i6.png"
    ]
  },
  "quantity":
  {
    "unitized":
    {
      "measure":
      {
        "unit":"unit",
        "value":"1"
      }
    },
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"789.0",
    "maximum_value":"999.0"
  },
  "category_id":"T Shirts",
  "fulfillment_id":"F1",
  "location_id":"L1",
  "@ondc/org/returnable":true,
  "@ondc/org/cancellable":true,
  "@ondc/org/return_window":"P7D",
  "@ondc/org/seller_pickup_return":true,
  "@ondc/org/time_to_ship":"P1D",
  "@ondc/org/available_on_cod":false,
  "@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
  "@ondc/org/statutory_reqs_packaged_commodities464":
  {
    "manufacturer_or_packer_name":"Aditya Birla Fashion & Retail Ltd",
    "manufacturer_or_packer_address":"Building 2, Divyasree Technopolis, Off HAL Airport Road, Bengaluru-560037",
    "common_or_generic_name_of_commodity":"Polo",
    "month_year_of_manufacture_packing_import":"01/2017465"
  },
  "tags":
  [
    {
      "code":"origin",
      "list":
      [
        {
          "code":"country",
          "value":"IND"
        }
      ],
      "code":"attribute",
      "list":
      [
        {
          "code":"gender",
        }
      ]
    }
  ]
}
```

<sup>463</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

<sup>464</sup> mapping of category to attribute key is defined [here](#);

<sup>465</sup> date first available;

```

    "value":"male"
  },
  {
    "code":"colour",
    "value":"#FFFF00"
  },
  {
    "code":"colour_name",
    "value":"Yellow"
  },
  {
    "code":"size",
    "value":"XL"
  },
  {
    "code":"brand",
    "value":"Allen Solly"
  },
  {
    "code":"size_chart",
    "value":"https://sellerNP.com/images/i6_size_chart.png"
  },
  {
    "code":"fabric",
    "value":"cotton"
  }
]
}
],
{
  "id":"I7",
  "parent_item_id":"V1466",
  "descriptor":
  {
    "name":"Allen Solly Men T-shirt",
    "code":"4:XXXXXXXX",
    "symbol":"https://sellerNP.com/images/i7.png",
    "short_desc":"Allen Solly Men T-shirt",
    "long_desc":"Allen Solly Men T-shirt",
    "images":
    [
      "https://sellerNP.com/images/i7.png"
    ]
  },
  "quantity":
  {
    "unitized":
    {
      "measure":
      {
        "unit":"unit",
        "value":"1"
      }
    }
  },
  "available":
  {
    "count":"99"
  },
  "maximum":
  {
    "count":"99"
  }
},
"price":
{
  "currency":"INR",
  "value":"689.0",
  "maximum_value":"999.0"
},
"category_id":"T Shirts",
"fulfillment_id":"F1",
"location_id":"L1",
"@ondc/org/returnable":true,
"@ondc/org/cancellable":true,
"@ondc/org/return_window":"P7D",
"@ondc/org/seller_pickup_return":true,

```

<sup>466</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

```

"@ondc/org/time_to_ship":"P1D",
"@ondc/org/available_on_cod":false,
"@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
"@ondc/org/statutory_reqs_packaged_commodities467:
{
  "manufacturer_or_packer_name": "Aditya Birla Fashion & Retail Ltd",
  "manufacturer_or_packer_address": "Building 2, Divyasree Technopolis, Off HAL Airport Road, Bengaluru-560037",
  "common_or_generic_name_of_commodity": "Polo",
  "month_year_of_manufacture_packing_import": "01/2017"468
},
"tags":
[
  {
    "code": "origin",
    "list":
      [
        {
          "code": "country",
          "value": "IND"
        }
      ]
  },
  {
    "code": "attribute",
    "list":
      [
        {
          "code": "gender",
          "value": "male"
        },
        {
          "code": "colour",
          "value": "#FFFF00"
        },
        {
          "code": "colour_name",
          "value": "Yellow"
        },
        {
          "code": "size",
          "value": "2XL"
        },
        {
          "code": "brand",
          "value": "Allen Solly"
        },
        {
          "code": "size_chart",
          "value": "https://sellerNP.com/images/i7_size_chart.png"
        },
        {
          "code": "fabric",
          "value": "cotton"
        }
      ]
  }
],
"creds469:
[
  {
    "id": "ESG-12345678",
    "descriptor":
      {
        "code": "ESG-12345678",
        "short_desc": "ESG-12345678-FF",
        "name": "Dun & Bradstreet ESG Badge No."
      },
    "url": "https://abcd.cdn.com/images/badge-img",
    "tags":
      [
        {
          "code": "verification",
          "list":
            [
              [
                ...
              ]
            ]
        }
      ]
  }
]

```

<sup>467</sup> mapping of category to attribute key is defined [here](#);

<sup>468</sup> date first available;

<sup>469</sup> optional

```
{
  "code": "verify_url",
  "value": "https://abcd.dnb.com/verify?id=ESG-12345678"
},
{
  "code": "valid_from",
  "value": "2023-06-03T00:00:00Z"
},
{
  "code": "valid_to",
  "value": "2024-06-03T23:59:999Z"
}
]
},
],
"tags": [
  {
    "code": "order_value",
    "list": [
      {
        "code": "min_value",
        "value": "300.00"
      }
    ],
    "code": "timing",
    "list": [
      {
        "code": "type",
        "value": "All"470
      },
      {
        "code": "location",
        "value": "L1"
      },
      {
        "code": "day_from",
        "value": "1"
      },
      {
        "code": "day_to",
        "value": "7"
      },
      {
        "code": "time_from",
        "value": "0000"
      },
      {
        "code": "time_to",
        "value": "2359"
      }
    ]
  },
  {
    "code": "serviceability",
    "list": [
      {
        "code": "location",
        "value": "L1"
      },
      {
        "code": "category",
        "value": "Men's Topwear"
      },
      {
        "code": "type",
        "value": "12"
      },
      {
        "code": "val",
        "value": "IND"
      }
    ]
  }
]
```

<sup>470</sup> means same timings for online order processing, shipment, self-pickup (as applicable);



```
},
{
  "code":"unit",
  "value":"country"
}
]
}
}
}
```

## 5. BPC

Example below shows catalog for 1 item but variants can be created similar to examples above;

### Payload

```
{
  "context": {
    "domain": "ONDC:RET13",
    "country": "IND",
    "city": "std:080",
    "action": "on_search",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:30.000Z"
  },
  "message": {
    "catalog": {
      "bpp/descriptor": {
        "name": "Seller NP",
        "symbol": "https://sellerNP.com/images/np.png",
        "short_desc": "Seller Marketplace",
        "long_desc": "Seller Marketplace",
        "images": [
          "https://sellerNP.com/images/np.png"
        ],
        "tags": [
          {
            "code": "bpp_terms",
            "list": [
              {
                "code": "np_type",
                "value": "MSN"471
              },
              {
                "code": "accept_bap_terms",
                "value": "Y"
              },
              {
                "code": "collect_payment"472,
                "value": "Y"473
              }
            ]
          }
        ],
        "bpp/providers": [
          {
            "id": "P1",
            "time": {
              "label": "enable",
              "timestamp": "2023-06-03T08:00:30.000Z"474
            },
            "fulfillments": [
              {
                "id": "F1",
                "type": "Delivery",
              }
            ]
          }
        ]
      }
    }
  }
}
```

<sup>471</sup> self-declaration of type of NP, enum - "ISN" (inventory seller), "MSN" (marketplace);

<sup>472</sup> optional - may be provided if seller NP wants to collect payment;

<sup>473</sup> enum - "Y" (yes), "N" (no);

<sup>474</sup> timestamp when the snapshot for this provider was generated. Buyer NPs can use this to determine from when to start incremental refresh;

```

    "contact":
    {
      "phone":"9886098860",
      "email":"abc@xyz.com"
    }
  ],
  "descriptor":
  {
    "name":"Store 1",
    "symbol":"https://sellerNP.com/images/store1.png",
    "short_desc":"Store 1",
    "long_desc":"Store 1",
    "images":
    [
      "https://sellerNP.com/images/store1.png"
    ]
  },
  "ttl":"P1D",
  "locations":
  [
    {
      "id":"L1",
      "time":
      {
        "label":"enable475",
        "timestamp":"2023-06-03T07:30:30.000Z476",
        "days":"1,2,3,4,5,6,7",
        "schedule":
        {
          "holidays":
          [
            "2023-08-15"
          ],
          "frequency":"PT4H",
          "times":
          [
            "1100",
            "1900"
          ]
        },
        "range":
        {
          "start":"1100",
          "end":"2100"
        }
      },
      "gps":"12.967555,77.749666",
      "address":
      {
        "locality":"Jayanagar",
        "street":"Jayanagar 4th Block",
        "city":"Bengaluru",
        "area_code":"560076",
        "state":"KA"
      },
      "circle":
      {
        "gps":"12.967555,77.749666",
        "radius":
        {
          "unit":"km",
          "value":3
        }
      }
    ],
    "items":
    [
      {
        "id":"I1",
        "time":
        {

```

<sup>475</sup> enum - "enable" (default), "disable" (soft delete of provider location, i.e. warehouse or store from buyer NP cache - in this case, serviceability for the store should not be a part of the catalog), "close" (temporary closure of store with the same format for time.range as specified, for incremental refresh, [here](#) - only if this event is available at the time of generating the full catalog snapshot), "open" (reopening of store when the store was previously closed for an indefinite time);

<sup>476</sup> timestamp when the snapshot for location was generated, must be <= Context.timestamp;

<sup>477</sup> enum - "enable", "disable";

enum - enable , disable  
478 timestamp for item event:

<sup>479</sup> unique code for item which will be in this format - "type:code" where type is 1 - EAN, 2 - ISBN, 3 - GTIN, 4 - HSN, 5 - others;

mapping of category to attribute key is defined [here](#);

<sup>481</sup> images for statutory requirements - optional;

```

    "code":"type",
    "value":"back_image"
  },
  {
    "code":"url",
    "value":"https://sellerNP.com/images/i1_back_image.png"
  }
],
{
  "code":"attribute482",
  "list":
  [
    {
      "code":"brand",
      "value":"Kesh King"
    },
    {
      "code":"colour",
      "value":"#000000"
    },
    {
      "code":"colour_name",
      "value":"Black"
    },
    {
      "code":"gender",
      "value":"male"
    },
    {
      "code":"concern",
      "value":"tangled_hair"
    },
    {
      "code":"ingredient",
      "value":"neem"
    },
    {
      "code":"conscious",
      "value":"natural"
    },
    {
      "code":"preference",
      "value":"herbal"
    },
    {
      "code":"formulation",
      "value":"liquid"
    },
    {
      "code":"skin_type",
      "value":"normal"
    }
  ]
},
"creds483":
[
  {
    "id":"ESG-12345678",
    "descriptor":
    {
      "code":"ESG-12345678",
      "short_desc":"ESG-12345678-FF",
      "name":"Dun & Bradstreet ESG Badge No."
    },
    "url":"https://abcd.cdn.com/images/badge-img",
    "tags":
    [
      {
        "code":"verification",
        "list":
        [
          {
            "code":"verif"
          }
        ]
      }
    ]
  }
]

```

<sup>482</sup> item attributes defined [here](#) (**mapping of attributes to keys e.g "Skin Type" => "skin\_type"**) - populating with valid values will enable better discoverability on buyer NPs, suggestive enums [here](#);

<sup>483</sup> optional

```

    "code":"verify_url",
    "value":"https://abcd.dnb.com/verify?id=ESG-12345678"
  },
  {
    "code":"valid_from",
    "value":"2023-06-03T00:00:00:000Z"
  },
  {
    "code":"valid_to",
    "value":"2024-06-03T23:59:59:999Z"
  }
]
},
"tags":
[
  {
    "code":"order_value",
    "list":
      [
        {
          "code":"min_value",
          "value":300.00
        }
      ]
  },
  {
    "code":"timing",
    "list":
      [
        {
          "code":"type",
          "value":All484
        },
        {
          "code":"location",
          "value":L1
        },
        {
          "code":"day_from",
          "value":1
        },
        {
          "code":"day_to",
          "value":7
        },
        {
          "code":"time_from",
          "value":0000
        },
        {
          "code":"time_to",
          "value":2359
        }
      ]
  },
  {
    "code":"serviceability",
    "list":
      [
        {
          "code":"location",
          "value":L1
        },
        {
          "code":"category",
          "value":Hair Care
        },
        {
          "code":"type",
          "value":12
        },
        {
          "code":"val",
          "value":IND
        }
      ]
  }
]

```

<sup>484</sup> means same timings for online order processing, shipment, self-pickup (as applicable);

```
{  
  "code":"unit",  
  "value":"country"  
}  
]  
}  
]  
}  
}
```

## 6. Electronics

Consider the following example:

This will be defined as 5 separate SKUs grouped together. Buyer NPs may choose to render as individual SKUs or as grouped;

| Name            | Colour           | Size  | Price   | MRP      | Item ID   |
|-----------------|------------------|-------|---------|----------|---|
| Apple iPhone 14 | Starlight        | 128GB | ₹67,999 | ₹79,990  | I1  |
|                 |                  | 512GB | ₹97,999 | ₹109,990 | I2  |
|                 | Midnight (black) | 128GB | ₹69,999 | ₹79,990  | I3  |
|                 |                  | 512GB | ₹97,999 | ₹109,990 | I4 (with engraving option for ₹1000); customization group - CG1 |

### Payload

```
{
  "context": {
    "domain": "ONDC:RET14",
    "country": "IND",
    "city": "std:080",
    "action": "on_search",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2023-06-03T08:00:30.000Z"
  },
  "message": {
    "catalog": {
      "bppdescriptor": {
        "name": "Seller NP",
        "symbol": "https://sellerNP.com/images/np.png",
        "short_desc": "Seller Marketplace",
        "long_desc": "Seller Marketplace",
        "images": [
          "https://sellerNP.com/images/np.png"
        ],
        "tags": [
          {
            "code": "bpp_terms",
            "list": [
              {
                "code": "np_type",
                "value": "MSN"485
              },
              {
                "code": "accept_bap_terms",
                "value": "Y"
              },
              {
                "code": "collect_payment"486,
                "value": "Y"487
              }
            ]
          }
        ]
      }
    }
  }
}
```

<sup>485</sup> self-declaration of type of NP, enum - "ISN" (inventory seller), "MSN" (marketplace);

<sup>486</sup> optional - may be provided if seller NP wants to collect payment;

<sup>487</sup> enum - "Y" (yes), "N" (no);

```

    },
  ],
  "bpp/providers":
  [
  {
    "id":"P1",
    "time":
    {
      "label":"enable",
      "timestamp":"2023-06-03T08:00:30.000Z488"
    },
    "fulfillments":
    [
    {
      "id":"F1",
      "type":"Delivery",
      "contact":
      {
        "phone":"9886098860",
        "email":abc@xyz.com"
      }
    }
  ],
  "descriptor":
  {
    "name":"Store 1",
    "symbol":"https://sellerNP.com/images/store1.png",
    "short_desc":"Store 1",
    "long_desc":"Store 1",
    "images":
    [
      "https://sellerNP.com/images/store1.png"
    ],
    "ttl":P1D,
    "locations":
    [
    {
      "id":L1,
      "time":
      {
        "label":enable489,
        "timestamp":"2023-06-03T07:30:30.000Z490",
        "days":"1,2,3,4,5,6,7",
        "schedule":
        {
          "holidays":
          [
            "2023-08-15"
          ],
          "frequency":PT4H,
          "times":
          [
            "1100",
            "1900"
          ]
        },
        "range":
        {
          "start":1100,
          "end":2100
        }
      },
      "gps":12.967555,77.749666,
      "address":
      {
        "locality":Jayanagar,
        "street":Jayanagar 4th Block,
        "city":Bengaluru,
        "area_code":560076,
      }
    }
  ]
}

```

<sup>488</sup> timestamp when the snapshot for this provider was generated. Buyer NPs can use this to determine from when to start incremental refresh;

<sup>489</sup> enum - "enable" (default), "disable" (soft delete of provider location, i.e. warehouse or store from buyer NP cache - in this case, serviceability for the store should not be a part of the catalog), "close" (temporary closure of store with the same format for time.range as specified, for incremental refresh, [here](#) - only if this event is available at the time of generating the full catalog snapshot), "open" (reopening of store when the store was previously closed for an indefinite time);

<sup>490</sup> timestamp when the snapshot for location was generated, must be <= Context.timestamp;

```

    "state":"KA"
  },
  "circle":
  {
    "gps":"12.967555,77.749666",
    "radius":
    {
      "unit":"km",
      "value":3
    }
  }
],
"categories":
[
  {
    "id":"CG1",
    "descriptor":
    {
      "name":"Engraving"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"custom_group"
          }
        ]
      },
      {
        "code":"config",
        "list":
        [
          {
            "code":"min",
            "value":1
          },
          {
            "code":"max",
            "value":1
          },
          {
            "code":"input",
            "value":"text491"491
          },
          {
            "code":"seq",
            "value":1
          }
        ]
      }
    ],
    "id":"V1",
    "descriptor":
    {
      "name":"Variant Group 1"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"variant_group"
          }
        ]
      },
      {
        "code":"attr",
        "list":
        [
          {
            "code":"type",
            "value":"variant_group"
          }
        ]
      }
    ]
  }
]

```

<sup>491</sup> **input type for customization group, enum: "select" (selection by buyer from available customizations based on min/max), "text" (text entered by buyer e.g. for engraving);**

```

"list":
[
  {
    "code":"name",
    "value":"item.tags.attribute.colour"
  },
  {
    "code":"seq",
    "value":"1"
  }
],
{
  "code":"attr",
  "list":
  [
    {
      "code":"name",
      "value":"item.tags.attribute.size"
    },
    {
      "code":"seq",
      "value":"2"
    }
  ]
},
"items":
[
  {
    "id":"I1",
    "time":
    {
      "label":"enable492",
      "timestamp":"2023-06-03T07:30:00.000Z493"
    },
    "parent_item_id":"V1494",
    "descriptor":
    {
      "name":"Apple iPhone 14",
      "code":"3:GTIN#495",
      "symbol":"https://sellerNP.com/images/i1.png",
      "short_desc":"Apple iPhone 14",
      "long_desc":"Apple iPhone 14",
      "images":
      [
        "https://sellerNP.com/images/i1.png"
      ],
      "quantity":
      {
        "unitized":
        {
          "measure":
          {
            "unit":"unit",
            "value":"1"
          }
        },
        "available":
        {
          "count":"99"
        },
        "maximum":
        {
          "count":"99"
        }
      },
      "price":
      {
        "currency":"INR",
        "value":"67999.00",
      }
    }
  }
]

```

<sup>492</sup> enum - "enable", "disable";

<sup>493</sup> timestamp for item event;

<sup>494</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

<sup>495</sup> unique code for item which will be in this format - "type:code" where type is 1 - EAN, 2 - ISBN, 3 - GTIN, 4 - HSN, 5 - others;

```

    "maximum_value": "79990.0"
},
"category_id": "Mobile Phone"496,
"fulfillment_id": "F1",
"location_id": "L1",
"@ondc/org/returnable": true,
"@ondc/org/cancellable": true,
"@ondc/org/return_window": "P7D",
"@ondc/org/seller_pickup_return": true,
"@ondc/org/time_to_ship": "PT3H",
"@ondc/org/available_on_cod": false,
"@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
"@ondc/org/statutory_reqs_packaged_commodities":
{
  "manufacturer_or_packer_name": "Foxconn Ltd",
  "manufacturer_or_packer_address": "A-1, Chennai-Bangalore National Highway, Nh-4, Sriperumbudur, Kanchipuram, Tamil Nadu 602105",
  "common_or_generic_name_of_commodity": "Mobile Phone",
  "month_year_of_manufacture_packing_import": "06/2023"
},
"tags":
[
  {
    "code": "origin",
    "list":
      [
        {
          "code": "country",
          "value": "IND"
        }
      ]
  },
  {
    "code": "attribute"497,
    "list":
      [
        {
          "code": "brand",
          "value": "iPhone"
        },
        {
          "code": "model",
          "value": "iPhone 14"
        },
        {
          "code": "model_year",
          "value": "2021"
        },
        {
          "code": "colour",
          "value": "#FAF7F2"
        },
        {
          "code": "colour_name"498,
          "value": "Starlight"
        },
        {
          "code": "ram",
          "value": "128"
        },
        {
          "code": "ram_unit",
          "value": "GB"499
        },
        {
          "code": "rom",
          "value": "128"
        },
        {
          "code": "rom_unit",
          "value": "GB"
        },
        {
          "code": "storage",
        }
      ]
  }
]

```

<sup>496</sup> categories defined [here](#):

<sup>497</sup> item attributes defined [here](#) (mapping of attributes to keys e.g. "Model Year" => "model\_year"), suggestive enums [here](#);

<sup>498</sup> required when colour hex code specified;

<sup>499</sup> suggestive enum is [here](#):

```

    "value":"256"
  },
  {
    "code":"storage_unit",
    "value":"GB"
  },
  {
    "code":"screen_size",
    "value":"6.1"
  },
  {
    "code":"primary_camera",
    "value":"48"
  },
  {
    "code":"secondary_camera",
    "value":"24"
  },
  {
    "code":"cpu",
    "value":"A15"
  },
  {
    "code":"gpu",
    "value":"A16 bionic"
  },
  {
    "code":"battery_capacity",
    "value":"3279"
  },
  {
    "code":"os_type",
    "value":"iOS"
  },
  {
    "code":"os_version",
    "value":"16.0"
  },
  {
    "code":"connectivity",
    "value":"4G"
  },
  {
    "code":"form_factor",
    "value":"touchscreen"
  },
  {
    "code":"weight",
    "value":"172"
  },
  {
    "code":"length",
    "value":"14.67"
  },
  {
    "code":"breadth",
    "value":"7.15"
  },
  {
    "code":"height",
    "value":"0.78"
  },
  {
    "code":"refurbished",
    "value":"yes500"500
  }
]
},
{
  "id":"I2",
  "parent_item_id":"V1501",501
  "descriptor":501
  {
    "name":"Apple iPhone 14",

```

<sup>500</sup> enum - "yes", "no";

<sup>501</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

```

"code":"3:GTIN#",
"symbol":"https://sellerNP.com/images/i2.png",
"short_desc":"Apple iPhone 14",
"long_desc":"Apple iPhone 14",
"images":
[
  "https://sellerNP.com/images/i2.png"
]
},
"quantity":
{
  "unitized":
  {
    "measure":
    {
      "unit":"unit",
      "value":"1"
    }
  },
  "available":
  {
    "count":"99"
  },
  "maximum":
  {
    "count":"99"
  }
},
"price":
{
  "currency":"INR",
  "value":"97999.00",
  "maximum_value":"109990.0"
},
"category_id":"Mobile Phone",
"fulfillment_id":"F1",
"location_id":"L1",
"@ondc/org/returnable":true,
"@ondc/org/cancellable":true,
"@ondc/org/return_window":"P7D",
"@ondc/org/seller_pickup_return":true,
"@ondc/org/time_to_ship":"PT3H",
"@ondc/org/available_on_cod":false,
"@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
"@ondc/org/statutory_reqs_packaged_commodities":
{
  "manufacturer_or_packer_name":"Foxconn Ltd",
  "manufacturer_or_packer_address":"A-1, Chennai-Bangalore National Highway, Nh-4, Sriperumbudur, Kanchipuram, Tamil Nadu 602105",
  "common_or_generic_name_of_commodity":"Mobile Phone",
  "month_year_of_manufacture_packing_import":"06/2023"
},
"tags":
[
  {
    "code":"origin",
    "list":
    [
      {
        "code":"country",
        "value":"IND"
      }
    ],
    "code":"attribute",
    "list":
    [
      {
        "code":"brand",
        "value":"iPhone"
      },
      {
        "code":"model",
        "value":"iPhone 14"
      },
      {
        "code":"model_year",
        "value":"2021"
      }
    ]
  }
]
}
  
```

```

    "code":"colour",
    "value": "#FAF7F2"
},
{
    "code":"colour_name502,
    "value": "Starlight"
},
{
    "code":"ram",
    "value": "128"
},
{
    "code":"ram_unit",
    "value": "GB"
},
{
    "code":"rom",
    "value": "128"
},
{
    "code":"rom_unit",
    "value": "GB"
},
{
    "code":"storage",
    "value": "512"
},
{
    "code":"storage_unit",
    "value": "GB"
},
{
    "code":"screen_size",
    "value": "6.1"
},
{
    "code":"primary_camera",
    "value": "48"
},
{
    "code":"secondary_camera",
    "value": "24"
},
{
    "code":"cpu",
    "value": "A15"
},
{
    "code":"gpu",
    "value": "A16 bionic"
},
{
    "code":"battery_capacity",
    "value": "3279"
},
{
    "code":"os_type",
    "value": "iOS"
},
{
    "code":"os_version",
    "value": "16.0"
},
{
    "code":"connectivity",
    "value": "4G"
},
{
    "code":"form_factor",
    "value": "touchscreen"
},
{
    "code":"weight",
    "value": "172"
},
{
    "code":"length",
    "value": "14.67"
}
  
```

---

<sup>502</sup> required when colour hex code specified;

```

},
{
  "code":"breadth",
  "value":"7.15"
},
{
  "code":"height",
  "value":"0.78"
},
{
  "code":"refurbished",
  "value":"yes"
}
]
}
},
{
  "id":"I3",
  "parent_item_id": "V1503",503
  "descriptor":
  {
    "name":"Apple iPhone 14",
    "code":"3:GTIN#",
    "symbol":"https://sellerNP.com/images/i3.png",
    "short_desc":"Apple iPhone 14",
    "long_desc":"Apple iPhone 14",
    "images":
    [
      "https://sellerNP.com/images/i3.png"
    ]
  },
  "quantity":
  {
    "unitized":
    {
      "measure":
      {
        "unit":"unit",
        "value":"1"
      }
    },
    "available":
    {
      "count":99
    },
    "maximum":
    {
      "count":99
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"69999.00",
    "maximum_value":"79990.0"
  },
  "category_id": "Mobile Phone",
  "fulfillment_id": "F1",
  "location_id": "L1",
  "@ondc/org/returnable": true,
  "@ondc/org/cancellable": true,
  "@ondc/org/return_window": "P7D",
  "@ondc/org/seller_pickup_return": true,
  "@ondc/org/time_to_ship": "PT3H",
  "@ondc/org/available_on_cod": false,
  "@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
  "@ondc/org/statutory_reqs_packaged_commodities":
  {
    "manufacturer_or_packer_name": "Foxconn Ltd",
    "manufacturer_or_packer_address": "A-1, Chennai-Bangalore National Highway, Nh-4, Sriperumbudur, Kanchipuram, Tamil Nadu 602105",
    "common_or_generic_name_of_commodity": "Mobile Phone",
    "month_year_of_manufacture_packing_import": "06/2023"
  },
  "tags":
  [

```

<sup>503</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

```
{
  "code": "origin",
  "list": [
    {
      "code": "country",
      "value": "IND"
    }
  ],
  {
    "code": "attribute",
    "list": [
      {
        "code": "brand",
        "value": "iPhone"
      },
      {
        "code": "model",
        "value": "iPhone 14"
      },
      {
        "code": "model_year",
        "value": "2021"
      },
      {
        "code": "colour",
        "value": "#343B43"
      },
      {
        "code": "colour_name504",504
        "value": "Midnight (black)"
      },
      {
        "code": "ram",
        "value": "128"
      },
      {
        "code": "ram_unit",
        "value": "GB"
      },
      {
        "code": "rom",
        "value": "128"
      },
      {
        "code": "rom_unit",
        "value": "GB"
      },
      {
        "code": "storage",
        "value": "128"
      },
      {
        "code": "storage_unit",
        "value": "GB"
      },
      {
        "code": "screen_size",
        "value": "6.1"
      },
      {
        "code": "primary_camera",
        "value": "48"
      },
      {
        "code": "secondary_camera",
        "value": "24"
      },
      {
        "code": "cpu",
        "value": "A15"
      },
      {
        "code": "gpu",
        "value": "A16 bionic"
      },
    ]
  }
}
```

---

<sup>504</sup> required when colour hex code specified;

```
{
  "code": "battery_capacity",
  "value": "3279"
},
{
  "code": "os_type",
  "value": "iOS"
},
{
  "code": "os_version",
  "value": "16.0"
},
{
  "code": "connectivity",
  "value": "4G"
},
{
  "code": "form_factor",
  "value": "touchscreen"
},
{
  "code": "weight",
  "value": "172"
},
{
  "code": "length",
  "value": "14.67"
},
{
  "code": "breadth",
  "value": "7.15"
},
{
  "code": "height",
  "value": "0.78"
},
{
  "code": "refurbished",
  "value": "yes"
}
]
}
],
{
  "id": "I4",
  "parent_item_id": "V1505",505
  "descriptor": [
    {
      "name": "Apple iPhone 14",
      "code": "3:GTIN#",
      "symbol": "https://sellerNP.com/images/i4.png",
      "short_desc": "Apple iPhone 14",
      "long_desc": "Apple iPhone 14",
      "images": [
        "https://sellerNP.com/images/i4.png"
      ],
      "quantity": {
        "unitized": {
          "measure": {
            "unit": "unit",
            "value": "1"
          }
        },
        "available": {
          "count": "99"
        },
        "maximum": {
          "count": "99"
        }
      }
    }
  ]
}
```

<sup>505</sup> if variant grouping defined for provider above, this matches id for variant\_group definition; if not defined or id is invalid, buyer NPs may choose to display as normal SKU item;

```

},
"price":
{
  "currency":"INR",
  "value":"97999.0",
  "maximum_value":"109990.0"
},
"category_id":"Mobile Phone",
"fulfillment_id":"F1",
"location_id":"L1",
"@ondc/org/returnable":true,
"@ondc/org/cancellable":true,
"@ondc/org/return_window":"P7D",
"@ondc/org/seller_pickup_return":true,
"@ondc/org/time_to_ship":"PT3H",
"@ondc/org/available_on_cod":false,
"@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
"@ondc/org/statutory_reqs_packaged_commodities":
{
  "manufacturer_or_packer_name": "Foxconn Ltd",
  "manufacturer_or_packer_address": "A-1, Chennai-Bangalore National Highway, Nh-4, Sriperumbudur, Kanchipuram, Tamil Nadu 602105",
  "common_or_generic_name_of_commodity": "Mobile Phone",
  "month_year_of_manufacture_packing_import": "06/2023"
},
"tags":
[
  {
    "code": "origin",
    "list":
      [
        {
          "code": "country",
          "value": "IND"
        }
      ]
  },
  {
    "code": "attribute",
    "list":
      [
        {
          "code": "brand",
          "value": "iPhone"
        },
        {
          "code": "model",
          "value": "iPhone 14"
        },
        {
          "code": "model_year",
          "value": "2021"
        },
        {
          "code": "colour",
          "value": "#343B43"
        },
        {
          "code": "colour_name506",
          "value": "Midnight (black)"
        },
        {
          "code": "ram",
          "value": "128"
        },
        {
          "code": "ram_unit",
          "value": "GB"
        },
        {
          "code": "rom",
          "value": "128"
        },
        {
          "code": "rom_unit",
          "value": "GB"
        }
      ]
  }
]

```

<sup>506</sup> required when colour hex code specified;

```

    "code":"storage",
    "value":"512"
},
{
    "code":"storage_unit",
    "value":"GB"
},
{
    "code":"screen_size",
    "value":"6.1"
},
{
    "code":"primary_camera",
    "value":"48"
},
{
    "code":"secondary_camera",
    "value":"24"
},
{
    "code":"cpu",
    "value":"A15"
},
{
    "code":"gpu",
    "value":"A16 bionic"
},
{
    "code":"battery_capacity",
    "value":"3279"
},
{
    "code":"os_type",
    "value":"iOS"
},
{
    "code":"os_version",
    "value":"16.0"
},
{
    "code":"connectivity",
    "value":"4G"
},
{
    "code":"form_factor",
    "value":"touchscreen"
},
{
    "code":"weight",
    "value":"172"
},
{
    "code":"length",
    "value":"14.67"
},
{
    "code":"breadth",
    "value":"7.15"
},
{
    "code":"height",
    "value":"0.78"
},
{
    "code":"refurbished",
    "value":"yes"
}
],
{
    "code":"type",
    "list":
    [
        {
            "code":"type",
            "value":"item"
        }
    ],
{
    "code":"custom_group",

```

```

"list":
[
  {
    "code":"id",
    "value":"CG1"
  }
]
},
{
  "id":"C1",
  "descriptor":
  {
    "name":"Engraving"
  },
  "quantity":
  {
    "unitized":
    {
      "measure":
      {
        "unit":"unit",
        "value":"1"
      }
    },
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"1000.0",
    "maximum_value":"1000.0"
  },
  "category_id":"Mobile Phone",
  "related":true,
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG1"
        }
      ]
    }
  ]
},
"creds507n":
[
  {
    "id":"Auth33567",
    "descriptor":
    {
      "code":"ESG-12345678",
      "short_desc":"ESG-12345678-FF",
      "name":"Authorised Apple Dealer"
    }
  }
]

```

---

<sup>507</sup> optional

```

"url": "https://abcd.cdn.com/images/badge-img",
"tags":
[
  {
    "code": "verification",
    "list":
      [
        {
          "code": "verify_url",
          "value": "https://abcd.dnb.com/verify?id=ESG-12345678"
        },
        {
          "code": "valid_from",
          "value": "2023-06-03T00:00:00Z"
        },
        {
          "code": "valid_to",
          "value": "2024-06-03T23:59:59Z"
        }
      ]
  }
],
"tags":
[
  {
    "code": "timing",
    "list":
      [
        {
          "code": "type",
          "value": "All508"
        },
        {
          "code": "location",
          "value": "L1"
        },
        {
          "code": "day_from",
          "value": "1"
        },
        {
          "code": "day_to",
          "value": "7"
        },
        {
          "code": "time_from",
          "value": "0000"
        },
        {
          "code": "time_to",
          "value": "2359"
        }
      ]
  },
  {
    "code": "serviceability",
    "list":
      [
        {
          "code": "location",
          "value": "L1"
        },
        {
          "code": "category",
          "value": "Mobile Phone"
        },
        {
          "code": "type",
          "value": "12"
        },
        {
          "code": "val",
          "value": "IND"
        },
        {
          "code": "unit",
        }
      ]
  }
]

```

<sup>508</sup> means same timings for online order processing, shipment, self-pickup (as applicable);



```
        "value":"country"
    }
}
}
}
```

## /on\_search sync response (ACK, NACK)

In the sync response to /on\_search, the buyer NP can provide the following information:

- On successful ingestion of the response:
  - Deep link to provider store on the buyer app so that seller can verify the store on buyer app (one-time only after catalog for provider successfully ingested);
  - Option for buyer NP to communicate promotions to provider (as & when required);
- On unsuccessful ingestion of the response:
  - Appropriate error message which can help seller NP to diagnose & fix the /on\_search response;

### /on\_search (ACK response)

```
"response":  
{  
  "context":  
  {  
    "domain":"ONDC:RET10",  
    "country":"IND",  
    "city":"std:080",  
    "action":"on_search",  
    "core_version":"1.2.0",  
    "bap_id":"buyerNP.com",  
    "bap_uri":"https://buyerNP.com/ondc",  
    "bpp_id": "sellerNP.com",  
    "bpp_uri": "https://sellerNP.com/ondc",  
    "transaction_id": "T1",  
    "message_id": "M2",  
    "timestamp": "2023-06-03T08:00:30.000Z"  
  },  
  "message":  
  {  
    "ack":  
    {  
      "status": "ACK",  
      "tags":  
      [  
        {  
          "code": "bap_provider_link509",  
          "list":  
          [  
            {  
              "code": "provider_id",  
              "value": "P1"  
            },  
            {  
              "code": "location_id",  
              "value": "L1"  
            },  
            {  
              "code": "sku_count",  
              "value": "1000510"  
            },  
            {  
              "code": "link1_type511",  
              "value": "android"  
            },  
            {  
              "code": "link1_value",  
              "value": "https://buyerNP.com/p1l1a"  
            },  
            {  
              "code": "link2_type",  
              "value": "ios"  
            },  
            {  
              "code": "link2_value",  
              "value": "https://buyerNP.com/p1l1i"  
            },  
            {  
              "code": "link3_type",  
              "value": "https://buyerNP.com/p1l1ii"  
            }  
          ]  
        }  
      ]  
    }  
  }  
}
```

<sup>509</sup> if a provider has multiple locations, separate links can be sent for each location;

<sup>510</sup> integer, valid only if at least one of the deep link URLs provided;

<sup>511</sup> at least one of the deep link URLs need to be provided;

```

    "value":"web"
  },
  {
    "code":"link3_value",
    "value":"https://buyerNP.com/p1I1w.htm"
  }
],
{
  "code":"bap_provider_link",
  "list":
  [
    {
      "code":"provider_id",
      "value":"P1"
    },
    {
      "code":"location_id",
      "value":"L2"
    },
    {
      "code":"sku_count",
      "value":"1000512"
    },
    {
      "code":"link1_type513",
      "value":"android"
    },
    {
      "code":"link1_value",
      "value":"https://buyerNP.com/p1I1a"
    },
    {
      "code":"link2_type",
      "value":"ios"
    },
    {
      "code":"link2_value",
      "value":"https://buyerNP.com/p1I1i"
    },
    {
      "code":"link3_type",
      "value":"web"
    },
    {
      "code":"link3_value",
      "value":"https://buyerNP.com/p1I1w.htm"
    }
  ]
},
{
  "code":"bap_promos",
  "list":
  [
    {
      "code":"category",
      "value":"Grocery514"
    },
    {
      "code":"from",
      "value":"2023-05-28T00:00:00.000Z515"
    },
    {
      "code":"to",
      "value":"2023-05-28T23:59:00.000Z516"
    }
  ]
}
}

```

<sup>512</sup> integer, valid only if at least one of the deep link URLs provided;

<sup>513</sup> at least one of the deep link URLs need to be provided;

<sup>514</sup> enum - parent category from [here](#);

<sup>515</sup> time - RFC3339 format;

<sup>516</sup> time - RFC3339 format;

/on\_search (NACK response)

```

"response":
{
  "context":
  {
    "domain":"ONDC:RET10",
    "country":"IND",
    "city":"std:080",
    "action":"on_search",
    "core_version":"1.2.0",
    "bap_id":"buyerNP.com",
    "bap_uri":"https://buyerNP.com/ondc",
    "bpp_id":"sellerNP.com",
    "bpp_uri":"https://sellerNP.com/ondc",
    "transaction_id":"T1",
    "message_id":"M2",
    "timestamp":"2023-06-03T08:00:30.000Z"
  },
  "message":
  {
    "ack":
    {
      "status":"NACK",
    }
  },
  "error":
  {
    "type":"DOMAIN-ERROR",
    "code":"20000",
    "message":"appropriate error message"
  }
}

```

## Scenarios

### 1. SNP NACKs search request because buyer finder fee is not acceptable

```

"response":
{
  "context":
  {
    "domain":"ONDC:RET10",
    "country":"IND",
    "city":"std:080",
    "action":"search",
    "core_version":"1.2.0",
    "bap_id":"buyerNP.com",
    "bap_uri":"https://buyerNP.com/ondc",
    "bpp_id":"sellerNP.com",
    "bpp_uri":"https://sellerNP.com/ondc",
    "transaction_id":"T1",
    "message_id":"M2",
    "timestamp":"2023-06-03T08:00:30.000Z"
  },
  "message":
  {
    "ack":
    {
      "status":"NACK",
      "tags":
      [
        {
          "code":"bpp_terms",
          "list":
          [
            {
              "code":"finder_fee_type",
              "value":"percent"
            },
            {
              "code":"finder_fee_amount_min517",
              "value":"1.5"
            },
            {
              "code":"finder_fee_amount_max",
              "value":"2.5"
            }
          ]
        }
      ]
    },
    "error":
    {
      "type":"DOMAIN-ERROR",
      "code":41001
    }
  }
}

```

<sup>517</sup> range for finder fee acceptable to SNP identified by min & max;

## Incremental catalog refresh

- Incremental refresh will only include the following:
  - Item(s) changes - entire item record to be sent when there are delta changes since the last full catalog snapshot;
  - Store temporarily closed for online orders;
  - Store (i.e. provider location) disabling;
  - Provider / Merchant disabling;
  - Offers;
- Disabling & enabling of customization groups, custom menu, variants will be through the full catalog refresh;
- Each catalog update, through incremental refresh, will be versioned using a timestamp. This will be used by buyer NPs to resolve update conflicts between full & incremental catalog refresh;
- To enable buyer NPs to distinguish between full vs incremental catalog response, a custom response header can be used by seller NPs:
  - "**X-ONDC-Search-Response:inc**" - for incremental response;
  - "**X-ONDC-Search-Response:full**" - for full response;
- Since incremental catalog changes are sent directly to buyer NP, the auth header will only have the signature of the Seller NP (and not include the gateway signature in x-gateway-authorization);
- Buyer NPs that didn't request for incremental catalog changes should respond with NACK for all incremental catalog changes received;
- No new provider(s) / location(s) will be a part of incremental refresh;
- In the sync ACK/NACK response to incremental catalog refresh, buyer NP can communicate whether the refresh was successfully ingested or not and the error codes & message format are defined below;

Payload below aggregates all possible use-cases. Individual use-case examples are below.

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_search",
    "country": "IND",
    "city": "518",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M2",
    "timestamp": "2023-06-03T08:30:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "catalog": {
      "bpp/providers": [
        {
          "id": "P1",
          "time": "519",
          {
            "label": "disable520",
            "timestamp": "2023-06-03T10:20:00.000Z521"
          },
          "locations": [
            {
              "id": "L1",
              "time": "522",
              {
                "label": "close522",
              }
            }
          ]
        }
      ]
    }
  }
}
```

<sup>518</sup> incremental refresh for all cities should be sent in the same payload;

<sup>519</sup> only required for provider disabling, in which case, all location(s) and item(s) for provider will also be disabled and the locations & items array won't show in payload;

<sup>520</sup> permanent disabling of provider at time.timestamp;

<sup>521</sup> timestamp for disable event, must not be greater than Context.timestamp;

<sup>522</sup> enum - "close" (for temporary store closure for online orders), "disable" (permanent disabling of store);

```

  "timestamp":"2023-06-03T10:20:00.000Z523,
  "range524":
  {
    "start":"2023-06-03T16:00:00.000Z",
    "end":"2023-06-03T23:59:00.000Z"
  }
},
"items":
[
  {
    "id":"I1",
    "time":
    {
      "label":"enable",
      "timestamp":"2023-06-03T07:30:00.000Z"
    },
    "parent_item_id":"V1",
    "descriptor":
    {
      "name":"Plain Atta",
      "code":"1:XXXXXXXXXXXXXX",
      "symbol":"https://sellerNP.com/images/i1.png",
      "short_desc":"Plain Atta",
      "long_desc":"Plain Atta",
      "images":
      [
        "https://sellerNP.com/images/i1.png"
      ],
      "quantity":
      {
        "unitized":
        {
          "measure":
          {
            "unit":"kilogram",
            "value":"1"
          }
        },
        "available":
        {
          "count":"99"
        },
        "maximum":
        {
          "count":"99"
        }
      },
      "price":
      {
        "currency":"INR",
        "value":"65.00",
        "maximum_value":"65.0"
      },
      "category_id":"Foodgrains",
      "fulfillment_id":"F1",
      "location_id":"L1",
      "@ondc/org/returnable":true,
      "@ondc/org/cancellable":true,
      "@ondc/org/return_window":"PT1H",
      "@ondc/org/seller_pickup_return":true,
      "@ondc/org/time_to_ship":"PT45M",
      "@ondc/org/available_on_cod":false,
      "@ondc/org/contact_details_consumer_care": "Ramesh,ramesh@abc.com,18004254444",
      "@ondc/org/statutory_reqs_packaged_commodities":
      {
        "manufacturer_or_packer_name":"ITC",
        "manufacturer_or_packer_address":"ITC Quality Care Cell,P.O Box No.592,Bangalore-560005",
        "common_or_generic_name_of_commodity":"Ashirwad Atta",
        "month_year_of_manufacture_packing_import":"01/2023"
      },
      "@ondc/org/statutory_reqs_prepackaged_food":
      {
        "nutritional_info":"Energy(KCal)-(per 100kg) 420,(per serving 50g)250;Protein(g)-(per 100kg) 12,(per serving 50g) 6,"
      }
    }
  }
]

```

<sup>523</sup> timestamp for store event ("close" or "disable");

<sup>524</sup> required for "close" - means store is closed from 4PM till end of the day for the date mentioned;

```

    "additives_info": "Preservatives,Artificial Colours",
    "brand_owner_FSSAI_license_no": "12345678901234",
    "other_FSSAI_license_no": "12345678901234",
    "importer_FSSAI_license_no": "12345678901234"
},
"tags":
[
  {
    "code": "origin",
    "list":
      [
        {
          "code": "country",
          "value": "IND"
        }
      ]
  },
  {
    "code": "image",
    "list":
      [
        {
          "code": "type",
          "value": "back_image"
        },
        {
          "code": "url",
          "value": "https://sellerNP.com/images/i1_back_image.png"
        }
      ]
  },
  {
    "code": "veg_nonveg",
    "list":
      [
        {
          "code": "veg",
          "value": "yes"
        }
      ]
  }
],
"offers525":
[
  {
    "id": "P1-O1",
    "descriptor":
      {
        "name": "Buy 2 Get 3",
        "code": "BUY2GET3",
        "short_desc": "Buy 2 pizzas, get the 3rd for free",
        "long_desc": "Buy 2 pizzas, get the 3rd for free",
        "images":
          [
            "https://sellerNP.com/store1/images/offer1-banner.png"
          ]
      },
    "location_ids526":
      [
        "L1"
      ],
    "item_ids527":
      [
        "I1"
      ],
    "time528":
      {
        "label": "valid",
        "timestamp": "2023-04-30T10:20:00.000Z529",
        "range":
          {
            "start": "2023-04-24T16:00:00.000Z",

```

<sup>525</sup> only required if provider has new offers;

<sup>526</sup> location(s) for which offer is valid;

<sup>527</sup> item(s) for which offer is valid;

<sup>528</sup> time validity of offer;

<sup>529</sup> timestamp for offer event ("valid");



"end":"2023-04-24T18:00:00.000Z"  
}  
]  
}  
}  
}

## Scenarios

Examples for individual use-cases are below, composite use-case will aggregate the applicable payloads;

### 1. Item changes

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_search",
    "country": "IND",
    "city": "Mumbai",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M2",
    "timestamp": "2023-06-03T08:30:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "catalog": {
      "bpp/providers": [
        {
          "id": "P1",
          "items": [
            {
              "id": "I1",
              "time": {
                "label": "enable",
                "timestamp": "2023-06-03T07:30:00.000Z"530
              },
              "parent_item_id531: "V1",
              "descriptor": {
                "name": "Plain Atta",
                "code": "1XXXXXXXXXXXXXX",
                "symbol": "https://sellerNP.com/images/i1.png",
                "short_desc": "Plain Atta",
                "long_desc": "Plain Atta",
                "images": [
                  "https://sellerNP.com/images/i1.png"
                ]
              },
              "quantity": {
                "unitized": {
                  "measure": {
                    "unit": "kilogram",
                    "value": "1"
                  }
                },
                "available": {
                  "count": "99"
                },
                "maximum": {
                  "count": "99"
                }
              },
              "price": {
                "currency": "INR",
                "value": "100"
              }
            }
          ]
        }
      ]
    }
  }
}
```

<sup>530</sup> timestamp for item event;

<sup>531</sup> optional

N.B.

- Whenever there is any change in an item, i.e. changes in inventory, price, quantity, etc., the corresponding item record, as in the full catalog refresh, will be a part of the incremental refresh;

**532 optional**



2. The item record shown above is for grocery (ONDC:RET10); however, for any category (i.e. F&B, fashion, etc.), the corresponding item record will be included in the incremental refresh;
3. Only item(s) that have changed or new item(s) added will be a part of the incremental refresh. Item(s) for which there are no changes should not be included in the incremental refresh;

2. Store closed temporarily<sup>533</sup>

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_search",
    "country": "IND",
    "city": "Mumbai",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M2",
    "timestamp": "2023-06-03T08:30:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "catalog": {
      "bpp/providers": [
        {
          "id": "P1",
          "locations": [
            {
              "id": "L1",
              "time": {
                "label": "close",
                "timestamp": "2023-06-03T10:20:00.000Z",
                "range": {
                  "start": "2023-06-03T16:00:00.000Z",
                  "end": "2023-06-03T23:59:00.000Z"
                }
              }
            }
          ]
        }
      ]
    }
  }
}
```

**N.B.**

1. Any subsequent incremental catalog refresh that happens, when the store remains closed, may have updates for the items for that store. Buyer NP should process this so that the updated items are visible when the store reopens;
2. Any subsequent full catalog refresh that happens, when the store remains closed, will have the store marked as closed, along with the other details that are a part of the full catalog;

---

<sup>533</sup> for temporary store closures on any given day;

<sup>534</sup> means store is closed from 4PM till rest of the day;

<sup>535</sup> optional - end time may or may not be available;

### 3. Store reopening

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_search",
    "country": "IND",
    "city": "*",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M2",
    "timestamp": "2023-09-05T08:30:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "catalog": {
      "bpp/providers": [
        {
          "id": "P1",
          "locations": [
            {
              "id": "L1",
              "time": {
                "label": "open",
                "timestamp": "2023-09-05T08:30:00.000Z"
              }
            }
          ]
        }
      ]
    }
  }
}
```

#### N.B.

1. Following states can be passed for a store in the catalog refresh:
  - a. **open** - open an already enabled store:
    - using full / incremental catalog refresh;
    - using time.label="open", time.timestamp = event timestamp;
    - store will be shown as open after the buyer NP processes the incremental refresh;
    - after the store reopens, it will default to the normal store timings;
    - if used for disabled store, buyer NP can NACK with error code 20004;
  - b. **close** - close an already enabled store:
    - using full / incremental catalog refresh;
    - using time.label="close", time.timestamp = event timestamp, time.range.start = start datetime for closure, time.range.end is optional;
    - if time.range.end is not passed, the store will remain closed until it is marked as open in a subsequent catalog refresh (incremental or full);
  - c. **enable** - for activation of store by buyer NP or for updating other information including serviceability, items, store timing, etc.:
    - using full catalog refresh (for now);
    - using time.label="enable", time.timestamp = event timestamp;
    - store timings using:
      - time.days + time.schedule.holidays + ((time.range.start + time.range.end) or (time.frequency + time.times)) (1.2 phase 1);
      - provider.timing (1.2 phase 2);
    - store timings (using option for 1.2 phase 1) has been deprecated in 1.2;
  - d. **disable** - for soft-delete of store by buyer NP:
    - using full / incremental catalog refresh;
    - using time.label="disable", time.timestamp = event timestamp;
2. Since the store states "enable" & "close" are mutually exclusive, usage of the same keys (time.range.start + time.range.end) for store timings & store close for the interim will need to be handled;



3. Any subsequent incremental catalog refresh that happens, when the store remains closed, may have updates for the items for that store. Buyer NP should process this so that the updated items are visible when the store reopens;
4. Any subsequent full catalog refresh that happens, when the store remains closed, will have the store marked as closed, along with the other details that are a part of the full catalog;

4. Provider disabling

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_search",
    "country": "IND",
    "city": "Mumbai",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M2",
    "timestamp": "2023-06-03T08:30:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "catalog": {
      "bpp/providers": [
        {
          "id": "P1",
          "time": {
            "label": "disable",
            "timestamp": "2023-06-03T10:20:00.000Z"
          }
        }
      ]
    }
  }
}
```

**N.B.**

1. No items should be sent for a provider that is being disabled;

### 5. Store disabling

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_search",
    "country": "IND",
    "city": "Mumbai",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M2",
    "timestamp": "2023-06-03T08:30:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "catalog": {
      "bpp/providers": [
        {
          "id": "P1",
          "locations": [
            {
              "id": "L1",
              "time": {
                "label": "disable",
                "timestamp": "2023-06-03T10:20:00.000Z"
              }
            }
          ]
        }
      ]
    }
  }
}
```

**N.B.**

1. If a store is disabled, serviceability for the store shouldn't be sent in the full catalog;

## 6. Offers

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_search",
    "country": "IND",
    "city": "Mumbai",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M2",
    "timestamp": "2023-06-03T08:30:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "catalog": {
      "bpp/providers": [
        {
          "id": "P1",
          "offers": [
            {
              "id": "DISCP60",
              "descriptor": {
                "code": "discount",
                "images": [
                  "https://sellerNP.com/images/offer2-banner.png"
                ],
                "location_ids": [
                  "L1"
                ],
                "item_ids": [
                  "I1"
                ],
                "time": {
                  "label": "valid",
                  "range": {
                    "start": "2023-06-21T16:00:00.000Z",
                    "end": "2023-06-21T23:00:00.000Z"
                  }
                },
                "tags": [
                  {
                    "code": "qualifier",
                    "list": [
                      {
                        "code": "min_value",
                        "value": "159"
                      }
                    ]
                  },
                  {
                    "code": "benefit",
                    "list": [
                      {
                        "code": "value_type",
                        "value": "percent"
                      },
                      {
                        "code": "value",
                        "value": "-60.00"
                      }
                    ]
                  }
                ]
              }
            }
          ]
        }
      ]
    }
  }
}
```

```
{
  "code":"value_cap",
  "value": "-120.00"
}
],
{
  "code":"meta",
  "list":
  [
    {
      "code":"additive",
      "value": "no"
    },
    {
      "code":"auto",
      "value": "yes"
    }
  ]
},
{
  "id": "FLAT150",
  "descriptor":
  {
    "code": "discount",
    "images":
    [
      "https://sellerNP.com/images/offer2-banner.png"
    ],
    "location_ids":
    [
      "L1"
    ],
    "item_ids":
    [
      "I1"
    ],
    "time":
    {
      "label": "valid",
      "range":
      {
        "start": "2023-06-22T16:00:00.000Z",
        "end": "2023-06-22T23:00:00.000Z"
      }
    },
    "tags":
    [
      {
        "code": "qualifier",
        "list":
        [
          {
            "code": "min_value",
            "value": "499.00"
          }
        ]
      },
      {
        "code": "benefit",
        "list":
        [
          {
            "code": "value_type",
            "value": "amount"
          },
          {
            "code": "value",
            "value": "-150.00"
          }
        ]
      },
      {
        "code": "meta",
        "list":
        [
          {
            "code": "additive",
            "value": "no"
          }
        ]
      }
    ]
  }
}
```

```

    "value":"no"
  },
  {
    "code":"auto",
    "value":"yes"
  }
]
},
{
  "id":"BUY2GET3",
  "descriptor":
  {
    "code":"buyXgetY",
    "images":
    [
      "https://sellerNP.com/images/offer1-banner.png"
    ]
  },
  "location_ids":
  [
    "L1"
  ],
  "item_ids":
  [
    "I1"
  ],
  "time":
  {
    "label":"valid",
    "range":
    {
      "start":"2023-06-23T16:00:00.000Z",
      "end":"2023-06-23T23:00:00.000Z"
    }
  },
  "tags":
  [
    {
      "code":"qualifier",
      "list":
      [
        {
          "code":"item_count",
          "value":"2"
        }
      ]
    },
    {
      "code":"benefit",
      "list":
      [
        {
          "code":"item_id",
          "value":"I1"
        },
        {
          "code":"item_count",
          "value":"3"
        }
      ]
    },
    {
      "code":"meta",
      "list":
      [
        {
          "code":"additive",
          "value":"no"
        },
        {
          "code":"auto",
          "value":"yes"
        }
      ]
    }
  ]
},
{
  "id":"FREEBIE",

```

```

"descriptor":
{
  "code":"freebie",
  "images":
  [
    "https://sellerNP.com/images/offer3-banner.png"
  ],
  "location_ids":
  [
    "L1"
  ],
  "item_ids":
  [
    "I1"
  ],
  "time":
  {
    "label":"valid",
    "range":
    {
      "start":"2023-06-24T16:00:00.000Z",
      "end":"2023-06-24T23:00:00.000Z"
    }
  },
  "tags":
  [
    {
      "code":"qualifier",
      "list":
      [
        {
          "code":"min_value",
          "value":"598.00"
        }
      ],
      {
        "code":"benefit",
        "list":
        [
          {
            "code":"item_count",
            "value":"1"
          },
          {
            "code":"item_id",
            "value":"sku id for extra item"
          },
          {
            "code":"item_value",
            "value":"200.00"
          }
        ]
      },
      {
        "code":"meta",
        "list":
        [
          {
            "code":"additive",
            "value":"no"
          },
          {
            "code":"auto",
            "value":"yes"
          }
        ]
      }
    }
  ]
}
  
```

## /on\_search sync response (ACK, NACK)

In the sync response to incremental catalog refresh /on\_search, the buyer NP can send ACK or NACK:

- ACK means refresh was successfully ingested;
- NACK means refresh couldn't be ingested and could happen because the incremental refresh being shared for specific provider(s) / location(s) / item(s) are not found on the buyer NP cache or for other reasons. Buyer NP should use these error codes / message in the NACK response:
  - Provider not found - error code 20003, error message should have provider id delimited by comma, e.g. "[{provider\_id:P1},{provider\_id:P2},{provider\_id:P3}]" (means provider ids P1, P2, P3 are not found);
  - Provider location not found - error code 20004, error message should have provider & location ids delimited by comma, e.g. "[{provider\_id:P1,location\_id:L1}, {provider\_id:P2,location\_id:L2}]" (means location id L1 for provider id P1, location id L2 for provider id P2 are not found);
  - Item not found - error code 20005, error message should have provider & item ids delimited by comma, e.g. "[{provider\_id:P1,item\_id:I1}, {provider\_id:P2,item\_id:I2}]" (means item id I1 for provider id P1, item id I2 for provider id P2 are not found);
  - for a combination of the above errors, error codes should be delimited by comma and above error messages combined in stringified json, e.g. if the following not found:
    - provider location L3 for provider P1
    - item id I3 for provider P2
    - error code - "20004,20005" and error message - "[{provider\_id:P1,location\_id:L3}, {provider\_id:P2,item\_id:I3}]"
  - for all other cases, error code 20000, error message will be a text string describing the error;

## /on\_search (NACK response)

```
"response": {
  "context": {
    "domain": "ONDC:RET10",
    "country": "IND",
    "city": "*",
    "action": "on_search",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M2",
    "timestamp": "2023-06-03T08:00:30.000Z"
  },
  "message": {
    "ack": {
      "status": "NACK"
    }
  },
  "error": {
    "type": "DOMAIN-ERROR",
    "code": "20000",
    "message": "appropriate error message"
  }
}
```

## /select

- Following enhancements are included:
  - Customizations with dynamic item ID;
  - Offer(s) opt-in by the buyer;
  - Payment on delivery option selected by buyer;

## Scenarios

### 1. Buyer creates make-to-order product - Domino's Pizza (example 1 above)

In this example:

- Buyer selects the following:
  - Dynamic Item 1 - Farmhouse Pizza with Crust ("New Hand Tossed"), Size ("Large"), Toppings ("Grilled Mushrooms", "Pepper Barbeque Chicken");
  - Dynamic Item 2 - Farmhouse Pizza with Crust ("100% Wheat Thin Crust"), Size ("Large"), Toppings ("Grilled Mushrooms", "Fresh Tomato");
- IDs & prices for the above:
  - Dynamic Item 1:
    - Farmhouse Pizza with Crust ("New Hand Tossed") - ₹269
    - Size ("Large") - ₹450
    - Toppings ("Grilled Mushrooms" - ₹80, "Pepper Barbeque Chicken" - ₹95)
  - Dynamic Item 2:
    - Farmhouse Pizza with Crust ("100% Wheat Thin Crust") - ₹269
    - Size ("Large") - ₹450
    - Toppings ("Grilled Mushrooms" - ₹80, "Fresh Tomato" - ₹80)

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "select",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M2",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T08:30:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "parent_item_id": "DI1536",536
            "location_id": "L1",
            "quantity": {
              "count": 1
            },
            "tags": [
              {
                "name": "Large"
              }
            ]
          }
        ]
      }
    }
  }
}
```

<sup>536</sup> dynamic item id created by buyer NP for make-to-order product; alphanumeric & up to 12 characters; id + parent\_item\_id must be unique;

```

    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"item"
      }
    ]
  },
  {
    "id":"C1",
    "parent_item_id":"DI1",
    "location_id":"L1",
    "quantity":1,
    "count":1
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent537",
      "list":
      [
        {
          "code":"id",
          "value":"CG1"
        }
      ]
    }
  ],
  {
    "id":"C7",
    "parent_item_id":"DI1",
    "location_id":"L1",
    "quantity":1,
    "count":1
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
    }
  ],
  {
    "id":"C14",
    "parent_item_id":"DI1",
  }

```

---

<sup>537</sup> parent for customization, i.e. customization group;

```

"location_id":"L1",
"quantity":
{
  "count":1
},
"tags":
[
  {
    "code":"type",
    "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
  },
  {
    "code":"parent",
    "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
  }
],
{
  "id":"C16",
  "parent_item_id":"DI1",
  "location_id":"L1",
  "quantity":
  {
    "count":1
  },
  "tags":
  [
    {
      "code":"type",
      "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
    },
    {
      "code":"parent",
      "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
    }
  ]
},
{
  "id":"I1",
  "parent_item_id":"DI2538",
  "location_id":"L1",
  "quantity":
  {
    "count":1
  },
  "tags":
  [
    {
      "code":"type",
      "list":
        [
          {
            "code":"type",
            "value":"item"
          }
        ]
    }
  ]
}
  
```

---

<sup>538</sup> dynamic item id;

```

        ]
      }
    },
    {
      "id": "C2",
      "parent_item_id": "DI2",
      "location_id": "L1",
      "quantity": 1,
      "count": 1,
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "customization"
            }
          ]
        },
        {
          "code": "parent",
          "list": [
            {
              "code": "id",
              "value": "CG1"
            }
          ]
        }
      ],
      "id": "C7",
      "parent_item_id": "DI2",
      "location_id": "L1",
      "quantity": 1,
      "count": 1,
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "customization"
            }
          ]
        },
        {
          "code": "parent",
          "list": [
            {
              "code": "id",
              "value": "CG2"
            }
          ]
        }
      ],
      "id": "C14",
      "parent_item_id": "DI2",
      "location_id": "L1",
      "quantity": 1,
      "count": 1,
      "tags": [
        {
          "code": "type",
        }
      ]
    }
  ]
}

```

```

"list":
[
  {
    "code":"type",
    "value":"customization"
  }
],
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG3"
    }
  ]
},
{
  "id":"C15",
  "parent_item_id":"DI2",
  "location_id":"L1",
  "quantity":
  {
    "count":1
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    }
  ]
},
"offers":539:
[
  {
    "id":"BUY2GET3",
    "tags":
    [
      {
        "code":"selection",
        "list":
        [
          {
            "code":"apply"540,
            "value":"yes"541
          }
        ]
      }
    ]
  }
],
"fulfillments":
[
  {
    "end":

```

<sup>539</sup> optional, only if buyer selects offer code; offer construct to be added in /init and /confirm as well;

<sup>540</sup> whether to apply the offer id;

<sup>541</sup> enum - "yes", "no";

```
{
  "location": [
    {
      "gps": "12.453544,77.928379",
      "address": [
        {
          "area_code": "560001"
        }
      ]
    }
  ],
  "payment542": [
    {
      "type": "ON-FULFILLMENT543"
    }
  ]
}
```

**N.B.**

1. In the above example, the buyer selection is as follows:
  - a. **Dynamic item - DI1**
    - i. Item - I1 (count 1)
      - Customization group - CG1, customization - C1
      - Customization group - CG2, customization - C7
      - Customization group - CG3, customization - C14, C16
  - b. **Dynamic item - DI2**
    - i. Item - I1 (count 1)
      - Customization group - CG1, customization - C2
      - Customization group - CG2, customization - C7
      - Customization group - CG3, customization - C14, C15
2. /select includes buyer selection of base items & customizations;
3. Base item & all customizations, for a selection, are grouped using a dynamic item id;
4. If there is a change in delivery address, the buyer app is required to call /select again;
5. If there is a change in cart in /on\_init (i.e. due to reduction in item quantity), the buyer app is required to call /select again;

---

<sup>542</sup> optional

<sup>543</sup> enum - "ON-ORDER" (prepaid), "ON-FULFILLMENT" (on delivery), "POST-FULFILLMENT" (after delivery);

## 2. Buyer selects other product

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "select",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M2",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T08:30:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      }
    },
    "items": [
      {
        "id": "I1",
        "location_id": "L1",
        "quantity": {
          "count": 2
        }
      }
    ],
    "offers544": [
      {
        "id": "BUY2GET3",
        "tags": [
          {
            "code": "selection",
            "list": [
              {
                "code": "apply545",
                "value": "yes546"
              }
            ]
          }
        ]
      }
    ],
    "fulfillments": [
      {
        "end547: {
          "location": {
            "gps548": "12.453544,77.928379",
            "address": {
              "name": "Shivaji Nagar, Mumbai, India"
            }
          }
        }
      }
    ]
  }
}
```

<sup>544</sup> optional, only if buyer selects offer code; offer construct to be added in /init and /confirm as well;

<sup>545</sup> whether to apply the offer id;

<sup>546</sup> enum - "yes", "no";

<sup>547</sup> fulfillment end location, i.e. delivery location for buyer;

<sup>548</sup> GPS coordinates & precision for fulfillment end location has to be same in /confirm;

```

      "area_code":"560001"
    }
  }
},
"payment549":
{
  "type":"ON-FULFILLMENT550"
}
}

```

**N.B.**

1. If there is a change in delivery address, the buyer app is required to call /select again;
2. If there is a change in cart in /on\_init (i.e. due to reduction in item quantity), the buyer app is required to call /select again;

---

<sup>549</sup> optional

<sup>550</sup> enum - "ON-ORDER" (prepaid), "ON-FULFILLMENT" (on delivery), "POST-FULFILLMENT" (after delivery);

## /on\_select

- Following enhancements are included in the quote:
  - Cost for product customizations;
  - Offer code(s) applied;
  - Support for 2 fulfillment types (**Delivery, Self-Pickup**);
  - Adding fulfillment\_type to Fulfillment;
  - Support for multiple categories in each fulfillment type;
  - Provider location id will be (optionally) returned in /on\_select. This will be required in cases where the fulfillment cannot be done from the location selected by the buyer but from a different location for the provider, as typically happens in non-hyperlocal categories. If this happens, the buyer NP should display a message to the buyer and use the updated location in /init;
  - **Added (optional) quote type for quote line item for fulfillment level tax, order/fulfillment level offer;**
- Rules for quote:
  - Seller NP is required to perform check for serviceability & inventory, for the /select request, and return appropriate response as detailed here;
  - Order quote should comply with the following:
    - All product prices (title\_type "item") should have both total & unit prices (as shown here);
    - Precision for all prices in quote can be up to 2 decimal digits;
    - Order value, i.e. quote.price.value =  $\sum$  quote line items, i.e. quote.breakup[].price.value;
    - Total price for an item (title type "item") should match the unit price for the item \* quantity for the item in the quote;
    - **Quote provided here for order is not frozen until /on\_init. In case there is change in cart selection in /on\_init (i.e. change in item(s) and /or quantity or change in buyer fulfillment address), the buyer NP will be required to call /select again;**
    - **If cart value is less than minimum order value, seller NP can return error code 30023 and the buyer NP may use this to prompt the buyer to increase the order value to at least reach the minimum order value;**

## Scenarios

### 1. If item is in stock & buyer location serviceable

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_select",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M2",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T08:30:30.000Z"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1551"551
          }
        ],
        "items": [
          {
            "fulfillment_id": "F1",
            "id": "I1"
          }
        ],
        "fulfillments552:552
        [
          {
            "id": "F1553",553
            "type": "Delivery",554
            "@ondc/org/provider_name": "LSP or Provider Name",555
            "tracking": false,556
            "@ondc/org/category": "Immediate Delivery555",557
            "@ondc/org/TAT": "PT60M",556
            "state":557
            {
              "descriptor": {
                "code": "Serviceable558"558
              }
            }
          ],
          "quote": {
            "price": {
              "currency": "INR",
              "value": "264"
            }
          }
        ]
      }
    }
  }
}
```

<sup>551</sup> may be the same location as selected by the buyer or a different location;

<sup>552</sup> order can have multiple fulfillments; in this case, unique fulfillment id (for provider & order) needs to be assigned by seller NP for each fulfillment & mapped to item(s) that are a part of that fulfillment;

<sup>553</sup> unique fulfillment id assigned by seller NP here & mapped to item and will be persisted right through order confirm;

<sup>554</sup> maps to logistics category as defined in Logistics API contract;

<sup>555</sup> **should only be used where O2D TAT <= 2 hrs;**

<sup>556</sup> Order-to-delivery (O2D) TAT shown = max(time\_to\_ship for items in the fulfillment) + ship-to-delivery (S2D) time provided by LSP in TAT;

<sup>557</sup> Seller NP performs serviceability check based on end location in /select. If non serviceable, seller app has to return the appropriate [error code](#) along with a valid /on\_select response;

<sup>558</sup> enum - "Serviceable", "Non-serviceable";

```

},
"breakup":
[
{
  "@ondc/org/item_id":"I1",
  "@ondc/org/item_quantity":
  {
    "count559:1
  },
  "title":"Atta",
  "@ondc/org/title_type560":"item",
  "price":
  {
    "currency":"INR",
    "value":"170.00561"
  },
  "item":
  {
    "quantity":
    {
      "available":
      {
        "count":99
      },
      "maximum":
      {
        "count":99
      }
    },
    "price":
    {
      "currency":"INR",
      "value":"170.00"
    }
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Delivery charges",
  "@ondc/org/title_type562":"delivery",
  "price":
  {
    "currency":"INR",
    "value":"50.00"
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Tax",
  "@ondc/org/title_type563":"tax",
  "price":
  {
    "currency":"INR",
    "value":"9.00"
  },
  "item":
  {
    "tags":
    [
      {
        "code":"quote",
        "list":
        [
          {
            "text": "The item is delivered within 24 hours."
          }
        ]
      }
    ]
  }
}
]
}
}

```

<sup>559</sup> if required quantity (as selected by buyer) is not in stock, seller app should show the quantity available in stock (or 0 if completely out-of-stock) and show the appropriate error code (40002) in the /on\_select response;

<sup>560</sup> defines the type of line item; enum:

item level

"item" (product cost), "tax", "discount";

fulfillment level

"delivery" (shipping charges), "packing", "misc" (convenience fees), "**tax**" (with quote type "fulfillment");

order level

as per offer construct;

Title text can be customized by buyer NP;

<sup>561</sup> item price should be either inclusive or exclusive of taxes, exactly as defined in the catalog;

<sup>562</sup> delivery charge to be included only if fulfillment state code is "Serviceable";

<sup>563</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

    "code":"type",
    "value":"fulfillment564"}
  }
}

{
  "@ondc/org/item_id":"F1",
  "title":"Packing charges",
  "@ondc/org/title_type565":"packing",
  "price":
  {
    "currency":"INR",
    "value":"25.00"
  },
  {
    "@ondc/org/item_id":"I1",
    "title":"Tax",
    "@ondc/org/title_type566":"tax",
    "price":
    {
      "currency":"INR",
      "value": "0.00"
    }
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Convenience Fee",
    "@ondc/org/title_type567":"misc",
    "price":
    {
      "currency":"INR",
      "value":"10.00"
    }
  }
],
"ttl":"P1D568"
}
}
}

```

<sup>564</sup> enum - "fulfillment", "order", "item";

<sup>565</sup> packing charge to be included only if not 0;

<sup>566</sup> tax breakup to be included only if tax is not 0;

<sup>567</sup> misc to be included only if not 0;

<sup>568</sup> validity of quote;

2. If item is not in stock

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_select",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M2",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T08:30:30.000Z"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1569"569
          }
        ]
      },
      "items": [
        {
          "fulfillment_id": "F1",
          "id": "I1"
        }
      ],
      "fulfillments": [
        {
          "id": "F1",
          "type": "Delivery",
          "@ondc/org/provider_name": "LSP or Provider Name",
          "tracking": false,
          "@ondc/org/category": "Immediate Delivery",
          "@ondc/org/TAT": "PT60M",
          "state": {
            "descriptor": {
              "code": "Serviceable"
            }
          }
        ],
        "quote": {
          "price": {
            "currency": "INR",
            "value": "0"
          }
        },
        "breakup": [
          {
            "@ondc/org/item_id": "I1",
            "@ondc/org/item_quantity": {
              "count": 0570
            },
            "title": "Atta",
            "@ondc/org/title_type": "item",
            "price": {
              "value": "0"
            }
          }
        ]
      ]
    }
  }
}
```

<sup>569</sup> may be the same location as selected by the buyer or a different location;  
<sup>570</sup> can be 0 (completely out of stock) or the reduced quantity in stock;

```

    "currency":"INR",
    "value":"0"
  },
  "item":
  {
    "quantity":
    {
      "available":
      {
        "count":0
      },
      "maximum":
      {
        "count":0
      }
    },
    "price":
    {
      "currency":"INR",
      "value":170
    }
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Delivery charges",
    "@ondc/org/title_type571":"delivery",
    "price":
    {
      "currency":"INR",
      "value":0.00
    }
  }
],
  "ttl":"P1D"
}
},
"error":
{
  "type":"DOMAIN-ERROR",
  "code":40002,
  "message":"M1572"
}
}

```

**N.B.**

1. If reduced quantity for the item is in stock, it will be shown above;
2. Charges for other item(s), other title\_type will appear as applicable;

---

<sup>571</sup> delivery charge to be included only if fulfillment state code is "Serviceable";

<sup>572</sup> error.message in the response should have the list of corresponding item ids referenced in stringified object notation, e.g. if items "I1", "I2", "I3" are out of stock, error.message would be encoded as:

"[{"item\_id":"I1","error":"40002"}, {"item\_id":"I2","error":"40002"}, {"item\_id":"I3","error":"40002"}]". This is in addition to the error.code (40002) which is being sent by seller NP;

3. If buyer or seller location not serviceable or merchant not available

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_select",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M2",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T08:30:30.000Z"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1573"  

1
          }
        ],
        "items": [
          {
            "fulfillment_id": "F1",
            "id": "I1"
          }
        ],
        "fulfillments": [
          {
            "id": "F1",
            "type": "Delivery",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "tracking": false,
            "@ondc/org/category": "",
            "@ondc/org/TAT": "",
            "state": {
              "descriptor": {
                "code": "Non-serviceable"
              }
            }
          }
        ],
        "quote": {
          "price": {
            "currency": "INR",
            "value": "170.00"
          }
        }
      }
    }
  }
}
```

---

<sup>573</sup> may be the same location as selected by the buyer or a different location;

```
},
  "item":
  {
    "quantity":
    {
      "available":
      {
        "count":"99"
      },
      "maximum":
      {
        "count":"99"
      }
    },
    "price":
    {
      "currency":"INR",
      "value":"170.00"
    }
  }
],
  "ttl":"P1D"
}
},
  "error":
  {
    "type":"DOMAIN-ERROR",
    "code":"30009574"
  }
}
```

---

<sup>574</sup> if merchant not available, use error code 30017;

4. Quote for product with customizations (response to scenario for /select above)

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "on_select",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M2",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T08:30:30.000Z"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1575"  

            I
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "parent_item_id": "DI1",
            "tags": [
              {
                "code": "type",
                "list": [
                  {
                    "code": "type",
                    "value": "item"
                  }
                ]
              }
            ],
            "id": "C1",
            "fulfillment_id": "F1",
            "parent_item_id": "DI1",
            "tags": [
              {
                "code": "type",
                "list": [
                  {
                    "code": "type",
                    "value": "customization"
                  }
                ]
              },
              {
                "code": "parent",
                "list": [
                  {
                    "code": "id",
                    "value": "CG1"
                  }
                ]
              }
            ]
          }
        ]
      }
    }
  }
}
```

---

<sup>575</sup> location could be same as what was selected by buyer or may be filled from different location;

```

    ],
  },
  "id": "C7",
  "fulfillment_id": "F1",
  "parent_item_id": "DI1",
  "tags": [
    [
      {
        "code": "type",
        "list": [
          [
            {
              "code": "type",
              "value": "customization"
            }
          ]
        ],
        "code": "parent",
        "list": [
          [
            {
              "code": "id",
              "value": "CG2"
            }
          ]
        ]
      }
    ],
    {
      "id": "C14",
      "fulfillment_id": "F1",
      "parent_item_id": "DI1",
      "tags": [
        [
          {
            "code": "type",
            "list": [
              [
                {
                  "code": "type",
                  "value": "customization"
                }
              ]
            ],
            "code": "parent",
            "list": [
              [
                {
                  "code": "id",
                  "value": "CG3"
                }
              ]
            ]
          }
        ],
        {
          "id": "C16",
          "fulfillment_id": "F1",
          "parent_item_id": "DI1",
          "tags": [
            [
              {
                "code": "type",
                "list": [
                  [
                    {
                      "code": "type",
                      "value": "customization"
                    }
                  ]
                ],
                "code": "parent",
                "list": [
                  [
                    {
                      "code": "id",
                      "value": "CG3"
                    }
                  ]
                ]
              }
            ]
          ]
        }
      ]
    }
  ]
}

```

```

        ]
      }
    },
    {
      "id": "I1",
      "fulfillment_id": "F1",
      "parent_item_id": "DI2",
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "item"
            }
          ]
        }
      ],
      "id": "C2",
      "fulfillment_id": "F1",
      "parent_item_id": "DI2",
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "customization"
            }
          ]
        },
        {
          "code": "parent",
          "list": [
            {
              "code": "id",
              "value": "CG1"
            }
          ]
        }
      ],
      "id": "C7",
      "fulfillment_id": "F1",
      "parent_item_id": "DI2",
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "customization"
            }
          ]
        },
        {
          "code": "parent",
          "list": [
            {
              "code": "id",
              "value": "CG2"
            }
          ]
        }
      ],
      "id": "C14",
    }
  ]
}

```

```

"fulfillment_id":"F1",
"parent_item_id":"DI2",
"tags":
[
  {
    "code":"type",
    "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
  },
  {
    "code":"parent",
    "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
  }
],
{
  "id":"C15",
  "fulfillment_id":"F1",
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
    },
    {
      "code":"parent",
      "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
    }
  ]
},
"fulfillments":
[
  {
    "id":"F1",
    "type":"Delivery",
    "@ondc/org/provider_name":"LSP or Provider Name",
    "tracking":false,
    "@ondc/org/category":"Immediate Delivery",
    "@ondc/org/TAT":"PT60M",
    "state":
      {
        "descriptor":
          {
            "code":"Serviceable"
          }
      }
  },
  {
    "quote":
      {
        "price":
          {
            "currency":"INR",
            "value":"1955.65"
          }
      }
  }
]

```

```
[
  {
    "@ondc/org/item_id": "I1",
    "@ondc/org/item_quantity":
    {
      "count": 1
    },
    "title": "Farm House Pizza",
    "@ondc/org/title_type": "item",
    "price":
    {
      "currency": "INR",
      "value": "269.00"
    },
    "item":
    {
      "parent_item_id": "DI1",
      "quantity":
      {
        "available":
        {
          "count": "99"
        },
        "maximum":
        {
          "count": "99"
        }
      },
      "price":
      {
        "currency": "INR",
        "value": "269.00"
      },
      "tags":
      [
        {
          "code": "type",
          "list":
          [
            {
              "code": "type",
              "value": "item"
            }
          ]
        }
      ]
    }
  },
  {
    "@ondc/org/item_id": "C1",
    "@ondc/org/item_quantity":
    {
      "count": 1
    },
    "title": "New Hand Tossed",
    "@ondc/org/title_type": "item",
    "price":
    {
      "currency": "INR",
      "value": "0.00"
    },
    "item":
    {
      "parent_item_id": "DI1",
      "quantity":
      {
        "available":
        {
          "count": "99"
        },
        "maximum":
        {
          "count": "99"
        }
      },
      "price":
      {
        "currency": "INR",
        "value": "0.00"
      },
      "tags":
```

```
[
  {
    "code": "type",
    "list": [
      {
        "code": "type",
        "value": "customization"
      }
    ],
    {
      "code": "parent",
      "list": [
        {
          "code": "id",
          "value": "CG1576"576
        }
      ]
    }
  },
  "@ondc/org/item_id": "C7",
  "@ondc/org/item_quantity": {
    "count": 1
  },
  "title": "Large",
  "@ondc/org/title_type": "item",
  "price": {
    "currency": "INR",
    "value": "450.00"
  },
  "item": {
    "parent_item_id": "DI1",
    "quantity": {
      "available": {
        "count": 99
      },
      "maximum": {
        "count": 99
      }
    },
    "price": {
      "currency": "INR",
      "value": "450.00"
    }
  },
  "tags": [
    {
      "code": "type",
      "list": [
        {
          "code": "type",
          "value": "customization"
        }
      ]
    },
    {
      "code": "parent",
      "list": [
        {
          "code": "id",
          "value": "CG2"
        }
      ]
    }
  ]
]
```

<sup>576</sup> id of customization group for the customization;

```

    ]
},
{
  "@ondc/org/item_id":"C14",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Grilled Mushrooms",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"80.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "quantity":
    {
      "available":
      {
        "count":"99"
      },
      "maximum":
      {
        "count":"99"
      }
    },
    "price":
    {
      "currency":"INR",
      "value":"80.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ],
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    }
  }
},
{
  "@ondc/org/item_id":"C16",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Pepper Barbeque Chicken",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"95.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "quantity":
    {
      "available":
      {
        "count":99
      }
    }
  }
}
]

```

```
        },
        "maximum": {
            "count": "99"
        }
    },
    "price": {
        "currency": "INR",
        "value": "95.00"
    },
    "tags": [
        {
            "code": "type",
            "list": [
                {
                    "code": "type",
                    "value": "customization"
                }
            ]
        },
        {
            "code": "parent",
            "list": [
                {
                    "code": "id",
                    "value": "CG3"
                }
            ]
        }
    ],
    "@ondc/org/item_id": "I1",
    "@ondc/org/item_quantity": {
        "count": 1
    },
    "title": "Farm House Pizza",
    "@ondc/org/title_type": "item",
    "price": {
        "currency": "INR",
        "value": "269.00"
    },
    "item": {
        "parent_item_id": "DI2",
        "quantity": {
            "available": {
                "count": 99
            },
            "maximum": {
                "count": 99
            }
        },
        "price": {
            "currency": "INR",
            "value": "269.00"
        },
        "tags": [
            {
                "code": "type",
                "list": [
                    {
                        "code": "type",
                        "value": "item"
                    }
                ]
            }
        ]
    }
}
```

```

},
{
  "@ondc/org/item_id":"C2",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"100% Wheat Thin Crust",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "quantity":
    {
      "available":
      {
        "count":99
      },
      "maximum":
      {
        "count":99
      }
    },
    "price":
    {
      "currency":"INR",
      "value":"0.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ],
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG1"
          }
        ]
      }
    }
  }
},
{
  "@ondc/org/item_id":"C7",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Large",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"450.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "quantity":
    {
      "available":
      {
        "count":99
      },
    }
  }
}

```

```

  "maximum":
  {
    "count":99
  }
},
"price":
{
  "currency":"INR",
  "value":450.00"
},
"tags":
[
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"customization"
      }
    ],
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value": "CG2"
        }
      ]
    }
  }
],
"@ondc/org/item_id": "C14",
"@ondc/org/item_quantity":
{
  "count":1
},
"title": "Grilled Mushrooms",
"@ondc/org/title_type": "item",
"price":
{
  "currency": "INR",
  "value": "80.00"
},
"item":
{
  "parent_item_id": "DI2",
  "quantity":
  {
    "available":
    {
      "count":99
    },
    "maximum":
    {
      "count":99
    }
  },
  "price":
  {
    "currency": "INR",
    "value": "80.00"
  }
},
"tags":
[
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"customization"
      }
    ],
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value": "CG2"
        }
      ]
    }
  }
]
}
  
```

```

"list":
[ {
  "code":"id",
  "value":"CG3"
}
]
},
{
  "@ondc/org/item_id":"C15",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Fresh Tomato",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"80.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "quantity":
    {
      "available":
      {
        "count":"99"
      },
      "maximum":
      {
        "count":"99"
      }
    },
    "price":
    {
      "currency":"INR",
      "value":"80.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"I1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"13.45"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
  }
}

```

```
[
  {
    "code": "type",
    "list": [
      {
        "code": "type",
        "value": "item"
      }
    ]
  },
  {
    "@ondc/org/item_id": "C1",
    "title": "Tax",
    "@ondc/org/title_type": "tax",
    "price": {
      "currency": "INR",
      "value": "0.00"
    },
    "item": {
      "parent_item_id": "DI1",
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "customization"
            }
          ]
        },
        {
          "code": "parent",
          "list": [
            {
              "code": "id",
              "value": "CG1"
            }
          ]
        }
      ],
      "@ondc/org/item_id": "C7",
      "title": "Tax",
      "@ondc/org/title_type": "tax",
      "price": {
        "currency": "INR",
        "value": "22.50"
      },
      "item": {
        "parent_item_id": "DI1",
        "tags": [
          {
            "code": "type",
            "list": [
              {
                "code": "type",
                "value": "customization"
              }
            ]
          },
          {
            "code": "parent",
            "list": [
              {
                "code": "id",
                "value": "CG1"
              }
            ]
          }
        ]
      }
    }
  }
]
```

```

    "value":"CG2"
  }
}
},
{
  "@ondc/org/item_id":"C14",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"4.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ],
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    }
  },
  {
    "@ondc/org/item_id":"C16",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
    {
      "currency":"INR",
      "value":"4.75"
    },
    "item":
    {
      "parent_item_id":"DI1",
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"customization"
            }
          ],
          "code":"parent",
          "list":
          [
            {
              "code":"id",
              "value":"CG1"
            }
          ]
        }
      ]
    }
  }
}

```

```
{
  "@ondc/org/item_id": "I1",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price": {
    "currency": "INR",
    "value": "13.45"
  },
  "item": {
    "parent_item_id": "DI2",
    "tags": [
      {
        "code": "type",
        "list": [
          {
            "code": "type",
            "value": "item"
          }
        ]
      }
    ],
    "@ondc/org/item_id": "C2",
    "title": "Tax",
    "@ondc/org/title_type": "tax",
    "price": {
      "currency": "INR",
      "value": "22.50"
    },
    "item": {
      "parent_item_id": "DI2",
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "customization"
            }
          ]
        },
        {
          "code": "parent",
          "list": [
            {
              "code": "id",
              "value": "CG1"
            }
          ]
        }
      ],
      "@ondc/org/item_id": "C7",
      "title": "Tax",
      "@ondc/org/title_type": "tax",
      "price": {
        "currency": "INR",
        "value": "22.50"
      },
      "item": {
        "parent_item_id": "DI2",
        "tags": [
          {
            "code": "type",
            "list": [

```

```
[
  {
    "code": "type",
    "value": "customization"
  }
],
{
  "code": "parent",
  "list": [
    {
      "code": "id",
      "value": "CG2"
    }
  ]
},
{
  "@ondc/org/item_id": "C14",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price": [
    {
      "currency": "INR",
      "value": "4.00"
    }
  ],
  "item": [
    {
      "parent_item_id": "DI2",
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "customization"
            }
          ]
        },
        {
          "code": "parent",
          "list": [
            {
              "code": "id",
              "value": "CG3"
            }
          ]
        }
      ]
    }
  ],
  "@ondc/org/item_id": "C15",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price": [
    {
      "currency": "INR",
      "value": "4.00"
    }
  ],
  "item": [
    {
      "parent_item_id": "DI2",
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "customization"
            }
          ]
        }
      ]
    }
  ]
}
```

```

{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG3"
    }
  ]
},
{
  "@ondc/org/item_id":"F1",
  "title":"Delivery charges",
  "@ondc/org/title_type":"delivery",
  "price":
  {
    "currency":"INR",
    "value":"50.00"
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Tax",
    "@ondc/org/title_type":"tax577",
    "price":
    {
      "currency":"INR",
      "value":"9.00"
    },
    "item":
    {
      "tags":
      [
        {
          "code":"quote",
          "list":
          [
            {
              "code":"type",
              "value":"fulfillment"
            }
          ]
        }
      ],
      "@ondc/org/item_id":"F1",
      "title":"Packing charges",
      "@ondc/org/title_type":"packing",
      "price":
      {
        "currency":"INR",
        "value":"25.00"
      },
      {
        "@ondc/org/item_id":"F1",
        "title":"Convenience Fee",
        "@ondc/org/title_type":"misc",
        "price":
        {
          "currency":"INR",
          "value":"10.00"
        }
      }
    ],
    "ttl":"PT1H"
  }
},
"error578":
{

```

<sup>577</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

<sup>578</sup> only if item(s) out of stock or location not serviceable;

```

"type":"DOMAIN-ERROR",
"code":"40002",
"message":"stringified json formatted as in point 7 below"
}
}
  
```

**N.B.**

1. **/on\_select returns quote for each dynamic item component (i.e. base item(s) & customizations), as selected by the buyer, along with fulfillment level costs;**
2. For each base item & customization, the quote includes:
  - a. Item price - total & unit price
  - b. Available & maximum quantity
  - c. Tax
3. **For customizations, the above quote structure will also be a part of the payloads in /on\_init, /on\_confirm, /on\_update, /on\_cancel;**
4. **In case a customization is out-of-stock, the quantity should be 0 and the total price for the customization will be 0;**
5. **If any mandatory customization is out-of-stock or the required minimum quantity is not available, the buyer NP can prompt the buyer to select a different customization (for the same customization group and matching the veg/non-veg/egg type of the original customization selected by buyer);**
6. **If any optional customization is out-of-stock or the quantity selected is not available, the quote should have the customization with the quantity available, but the base item and other customizations will have the quantity as selected by the buyer;**
7. For all of the cases in 4 & 5 above, **error.message in the response should have the list of corresponding item ids** referenced in stringified object notation, e.g. if base item "I1" for dynamic item "DI1" and customization "C15" for dynamic item "DI2" are both out of stock, error.message would be encoded as: `"[{"dynamic_item_id":"DI1","item_id":"I1","error":"40002"}, {"dynamic_item_id":"DI2","customization_id":"C15","customization_group_id":"CG3","error":"40002"}]"`. This is in addition to the error.code (40002) which is being sent by seller NP;
8. **If there is a mismatch between the list of ids in 7 & the ids in quote with quantity less than requested or 7 is not honoured, the buyer NP can NACK /on\_select with error code 22507;**

## 5. Offers

- Available offers may be a part of the catalog for the buyer NP to render:
  - Offers may be:
    - **opt-in** - buyer applies offer to their cart selection by entering offer id(s) prior to checkout;
    - **auto-applied** - offers are automatically applied;
- As part of /select processing, SNP evaluates offers for which buyer is eligible (regardless of applicability of such offers) and sends details of these offers in /on\_select;
  - provider will validate the offer id(s), for opt-in offers, and apply the offer(s) to the cart selection;
  - auto-applied offers will be shown in the offer quote. If buyer doesn't want any auto-applied offer, they can remove the offer from the cart and buyer NP will communicate this to seller NP in /select, /init, /confirm;
- Handling of exception conditions for offers:
  - if offer is no longer valid in pre-order APIs such as /on\_init or /on\_confirm, seller NP can send error code 30006;
  - if offer is valid but cannot be fulfilled (e.g. offer item not available for offers such as freebie, etc.), seller NP can send error code 30007;
  - if offer is no longer valid or cannot be fulfilled in /on\_confirm, seller NP should cancel the order;

### 5.1. Offer (based on cart selection)

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "on_select",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M2",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T08:30:30.000Z"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1579"  

          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1"
          }
        ],
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "tracking": false,
            "@ondc/org/category": "Immediate Delivery",
            "@ondc/org/TAT": "PT60M",
            "state": {
              "descriptor": {
                "code": "Serviceable"
              }
            }
          }
        ]
      }
    }
  }
}
```

<sup>579</sup> may be the same location as selected by the buyer or a different location;

```

        }
    ],
    "quote": {
        "price": {
            "currency": "INR",
            "value": "1219.00"
        },
        "breakup": [
            {
                "@ondc/org/item_id": "I1",
                "@ondc/org/item_quantity": {
                    "count": 2
                },
                "title": "Veg Pizza",
                "@ondc/org/title_type": "item",
                "price": {
                    "currency": "INR",
                    "value": "1200.00"
                },
                "item": {
                    "quantity": {
                        "available": {
                            "count": "99"
                        },
                        "maximum": {
                            "count": "99"
                        }
                    },
                    "price": {
                        "currency": "INR",
                        "value": "600.00"
                    }
                }
            }
        ]
    }
}
580 "@ondc/org/item_id": "T2581",
581 "title": "Flat discount of ₹150 on minimum cart value of ₹499",
582 "@ondc/org/title_type": "offer",
583 "price": {
        "currency": "INR",
        "value": "-150.00"
    },
    "item": {
        "tags": [
            {
                "code": "quote",
                "list": [
                    {
                        "code": "type582",
                        "value": "order583"
                    }
                ]
            },
            {
                "code": "offer",
                "list": [

```

<sup>580</sup> offer quote construct to be added in /on\_init, /on\_confirm, /on\_status, /on\_cancel, /on\_update;

<sup>581</sup> based on quote type, item\_id to be assigned as follows:

"order" - transaction id;

"fulfillment" - fulfillment id;

"item" - item id;

<sup>582</sup> quote type for title type above (mapping of title\_type to quote type defined [here](#));

<sup>583</sup> enum - "order", "fulfillment", "item";

```

{
  "code":"id",
  "value":"FLAT150584**
},
{
  "code":"type",
  "value":"discount585**
},
{
  "code":"auto586**,
  "value":"yes587**
},
{
  "code":"additive588**,
  "value":"no589**
},
{
  "code":"item_id590**,
  "value": ""
},
{
  "code":"item_value591**,
  "value": ""
},
{
  "code":"item_count592**,
  "value": ""
}
]
}
},
{
  "@ondc/org/item_id":"F1",
  "title":"Delivery charges",
  "@ondc/org/title_type":"delivery",
  "price":
  {
    "currency":"INR",
    "value":"50.00"
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Tax",
  "@ondc/org/title_type":"tax593**",
  "price":
  {
    "currency":"INR",
    "value":"9.00"
  },
  "item":
  {
    "tags":
    [
      {
        "code":"quote",
        "list":
        [
          {
            "code":"type",
            "value":"fulfillment"
          }
        ]
      }
    ]
  }
}

```

<sup>584</sup> offer id - may match the corresponding id in /select (for opt-in offer) or can be unique offer id (for order) for auto applied offer from SNP;

<sup>585</sup> offer type (with enum) as per offer template above;

<sup>586</sup> whether offer is auto applied based on cart selection;

<sup>587</sup> enum - "yes", "no";

<sup>588</sup> whether offer can be applied in addition to other offers;

<sup>589</sup> enum - "yes", "no";

<sup>590</sup> optional - to be provided if required for offer type as per template definition;

<sup>591</sup> optional - to be provided if required for offer type as per template definition;

<sup>592</sup> optional - to be provided if required for offer type as per template definition;

<sup>593</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

    ],
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Packing charges",
    "@ondc/org/title_type":"packing",
    "price":
    {
      "currency":"INR",
      "value":"50.00"
    },
    {
      "@ondc/org/item_id":"I1",
      "title":"Tax",
      "@ondc/org/title_type":"tax",
      "price":
      {
        "currency":"INR",
        "value": "60.00"
      },
      {
        "@ondc/org/item_id":"F1",
        "title":"Convenience Fee",
        "@ondc/org/title_type":"misc",
        "price":
        {
          "currency":"INR",
          "value":"0.00"
        }
      }
    },
    "ttl":"PT1H"
  }
}

```

### 5.2. Offer (free delivery)

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "on_select",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M2",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T08:30:30.000Z"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1594"  

1
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1"
          }
        ],
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "tracking": false,
            "@ondc/org/category": "Immediate Delivery",
            "@ondc/org/TAT": "PT60M",
            "state": {
              "descriptor": {
                "code": "Serviceable"
              }
            }
          }
        ],
        "quote": {
          "price": {
            "currency": "INR",
            "value": "1310.00"
          }
        }
      }
    }
  }
}
```

<sup>594</sup> may be the same location as selected by the buyer or a different location;

```

"item":
{
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":600.00
  }
}
}595
"@ondc/org/item_id":"F1596,
"title":"Free delivery",
"@ondc/org/title_type":"offer",
"price":
{
  "currency":"INR",
  "value":-50.00
},
"item":
{
  "tags":
  [
    {
      "code":"quote",
      "list":
      [
        {
          "code":"type597",
          "value":"fulfillment598"
        }
      ],
      {
        "code":"offer",
        "list":
        [
          {
            "code":"id",
            "value":"FREEDELIVERY"
          },
          {
            "code":"type",
            "value":"delivery599"
          },
          {
            "code":"auto600",
            "value":yes601
          },
          {
            "code":"additive602",
            "value":yes603
          }
        ]
      }
    ]
}
}

```

<sup>595</sup> offer quote construct to be added in /on\_init, /on\_confirm, /on\_status, /on\_cancel, /on\_update;

<sup>596</sup> based on quote type, item\_id to be assigned as follows:

"order" - transaction id;

"fulfillment" - fulfillment id;

"item" - item id;

<sup>597</sup> quote type for title type above (mapping of title\_type to quote type defined [here](#));

<sup>598</sup> enum - "order", "fulfillment", "item";

<sup>599</sup> offer type (with enum) as per offer template above;

<sup>600</sup> whether offer is auto applied based on cart selection;

<sup>601</sup> enum - "yes", "no";

<sup>602</sup> whether offer can be applied in addition to other offers;

<sup>603</sup> enum - "yes", "no";

```
        },
        {
            "@ondc/org/item_id": "F1",
            "title": "Delivery charges",
            "@ondc/org/title_type": "delivery",
            "price": [
                {
                    "currency": "INR",
                    "value": "50.00"
                }
            ],
            "@ondc/org/item_id": "F1",
            "title": "Packing charges",
            "@ondc/org/title_type": "packing",
            "price": [
                {
                    "currency": "INR",
                    "value": "50.00"
                }
            ],
            "@ondc/org/item_id": "I1",
            "title": "Tax",
            "@ondc/org/title_type": "tax",
            "price": [
                {
                    "currency": "INR",
                    "value": "60.00"
                }
            ],
            "@ondc/org/item_id": "F1",
            "title": "Convenience Fee",
            "@ondc/org/title_type": "misc",
            "price": [
                {
                    "currency": "INR",
                    "value": "0.00"
                }
            ]
        ],
        "ttl": "PT1H"
    }
}
```

### 5.3. Offer (freebie)

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "on_select",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M2",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T08:30:30.000Z"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1604"  

1
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1"
          }
        ],
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "tracking": false,
            "@ondc/org/category": "Immediate Delivery",
            "@ondc/org/TAT": "PT60M",
            "state": {
              "descriptor": {
                "code": "Serviceable"
              }
            }
          }
        ],
        "quote": {
          "price": {
            "currency": "INR",
            "value": "1310.00"
          }
        },
        "breakup": [
          {
            "@ondc/org/item_id": "I1",
            "@ondc/org/item_quantity": {
              "count": 2
            },
            "title": "Veg Pizza",
            "@ondc/org/title_type": "item",
            "price": {
              "currency": "INR",
              "value": "1200.00"
            }
          }
        ]
      }
    }
  }
}
```

---

<sup>604</sup> may be the same location as selected by the buyer or a different location;

```

"item":
{
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":600.00
  }
}
605
"@ondc/org/item_id":"T2606,
"@ondc/org/item_quantity":
{
  "count":1
},
"title":"Buy 2 Veg Pizzas, get the 3rd for free",
"@ondc/org/title_type":"offer",
"price":
{
  "currency":"INR",
  "value":0.00
},
"item":
{
  "quantity":
  {
    "available":
    {
      "count":"99"
    },
    "maximum":
    {
      "count":"99"
    }
  },
  "price":
  {
    "currency":"INR",
    "value":0.00
  },
  "tags":
  [
    {
      "code":"quote",
      "list":
      [
        {
          "code":"type607",
          "value": "item"608
        }
      ]
    },
    {
      "code":"offer",
      "list":
      [
        {
          "code":"id",
          "value": "FREEBIE"
        }
      ]
    }
  ]
}

```

<sup>605</sup> offer quote construct to be added in /on\_init, /on\_confirm, /on\_status, /on\_cancel, /on\_update;

<sup>606</sup> based on quote type, item\_id to be assigned as follows:

"order" - transaction id;

"fulfillment" - fulfillment id;

"item" - item id (for dynamic items, the entire quote construct for dynamic items should be added);

<sup>607</sup> quote type for title type above (mapping of title\_type to quote type defined [here](#));

<sup>608</sup> enum - "order", "fulfillment", "item";

```

    "code":"type",
    "value":"freebie609"
},
{
  "code":"auto610",
  "value":"yes611"
},
{
  "code":"additive612",
  "value":"no613"
},
{
  "code":"item_id614,
  "value":"I1"
},
{
  "code":"item_value615,
  "value":"600.00"
},
{
  "code":"item_count616,
  "value":"1"
}
]
}
}
"@ondc/org/item_id":"F1",
"title":"Delivery charges",
"@ondc/org/title_type":"delivery",
"price":
{
  "currency":"INR",
  "value":"50.00"
}
},
{
  "@ondc/org/item_id":"F1",
  "title":"Packing charges",
  "@ondc/org/title_type":"packing",
  "price":
  {
    "currency":"INR",
    "value":"50.00"
  }
},
{
  "@ondc/org/item_id":"I1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value": "60.00"
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Convenience Fee",
  "@ondc/org/title_type":"misc",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  }
}
],
"ttl":"PT1H"
}
}

```

<sup>609</sup> offer type (with enum) as per offer template above;

<sup>610</sup> whether offer is auto applied based on cart selection;

<sup>611</sup> enum - "yes", "no";

<sup>612</sup> whether offer can be applied in addition to other offers;

<sup>613</sup> enum - "yes", "no";

<sup>614</sup> optional - to be provided if required for offer type as per template definition;

<sup>615</sup> optional - to be provided if required for offer type as per template definition;

<sup>616</sup> optional - to be provided if required for offer type as per template definition;

## 6. Enabling Self-Pickup / Buyer-Delivery

- Provider will define whether a store supports delivery, self-pickup or both options, along with the timings for delivery, self-pickup (/on\_search);
- Provider may also define minimum order value (/on\_search);
- Seller NP will forward delivery (only if pickup & delivery locations serviceable), self-pickup option for buyer to select;
- Delivery option will have an O2D TAT while a self-pickup option will have the O2S TAT;
- For backward compatibility, the default functionality will be set as follows - delivery will be the 1st fulfillment option, (with the Seller NP assigning this delivery option for the items), but the **quote will include the cost for both delivery & self-pickup types (including "delivery", "packing", "tax" (with quote type "fulfillment"), as applicable)**;
- **Buyer NP should check the default fulfillment(s) assigned to item(s) and extract the cost only for these fulfillment(s), from the quote, for displaying to the buyer along with other line items such as item, tax, etc;**
- Buyer can change the fulfillment option to self-pickup and this will be updated in /init:
  - when the buyer selects a fulfillment option, among options provided by the seller NP, the selected fulfillment option will be communicated in /init. In this case, the selected fulfillment option will impact the quote and the quote in /on\_init will be different from the quote in /on\_select;
  - BNP will need to validate that the updated quote in /on\_init matches the quote in /on\_select after adjusting for the changes in quote due to the fulfillment option selected e.g. if /on\_select quote included a value for delivery charge and this was the default fulfillment option and the buyer selects self-pickup, the updated quote should have a delivery charge of 0 in /on\_init;
- If cart selection changes (i.e. change in items and / or quantity), buyer NP needs to call /select;
- Seller NP should check that the quote in /confirm matches the last quote sent in /on\_init;
- In case of self-pickup:
  - after the order is ready for pickup (by seller), it is marked as ready;
  - pickup code will be generated by seller NP and communicated to the buyer NP;
  - authorization code (OTP, etc.) may optionally be generated by seller NP and communicated to the buyer NP;
  - additional details that may be required to be communicated over the protocol include vehicle no for whoever is picking up the order (i.e. buyer for curbside self-pickup);
  - instructions if any (e.g. with register / counter no for buyer self-pickup);

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "on_select",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M2",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T08:30:30.000Z"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1"
      },
      "items": [
        {
          "id": "I1",
          "fulfillment_id": "F1"617
        }
      ],
      "fulfillments": [
        ...
      ]
    }
  }
}
```

<sup>617</sup> only one fulfillment option assigned to items;

```
{
  "id": "F1",
  "type": "Delivery",
  "@ondc/org/provider_name": "LSP or Provider Name",
  "tracking": false,
  "@ondc/org/category": "Immediate Delivery",
  "@ondc/org/TAT": "PT60M618",
  "state": {
    "descriptor": {
      "code": "Serviceable"
    }
  }
},
{
  "id": "F2",
  "type": "Self-Pickup",
  "@ondc/org/provider_name": "",
  "tracking": false,
  "@ondc/org/category": "Takeaway619",
  "@ondc/org/TAT": "PT15M620",
  "state": {
    "descriptor": {
      "code": "Serviceable621"
    }
  }
},
{
  "id": "F3",
  "type": "Buyer-Delivery",
  "@ondc/org/provider_name": "",
  "tracking": false,
  "@ondc/org/category": "",
  "@ondc/org/TAT": "PT15M622",
  "state": {
    "descriptor": {
      "code": "Serviceable623"
    }
  },
  "tags": [
    {
      "code": "weight",
      "list": [
        {
          "code": "unit",
          "value": "kilogram624"
        },
        {
          "code": "value",
          "value": "1"
        }
      ]
    },
    {
      "code": "length",
      "list": [
        {
          "code": "unit",
          "value": "centimeter625"
        },
        {
          "code": "value",
          "value": ""
        }
      ]
    }
  ]
}
```

<sup>618</sup> O2D = O2S (i.e. max of time\_to\_ship for items in order) + S2D (for delivery);

<sup>619</sup> enums for fulfillment type "Self-Pickup" are "Takeaway", "Kerbside";

<sup>620</sup> O2S time, i.e. max of time\_to\_ship for items in order;

<sup>621</sup> **Self-Pickup fulfillments are always serviceable;**

<sup>622</sup> O2S time, i.e. max of time\_to\_ship for items in order;

<sup>623</sup> **Self-Pickup fulfillments are always serviceable;**

<sup>624</sup> enum [here](#);

<sup>625</sup> enum [here](#);

```

        "value":"1"
      }
    ],
  },
  {
    "code":"breadth",
    "list":
    [
      {
        "code":"unit",
        "value":"centimeter"
      },
      {
        "code":"value",
        "value":"1"
      }
    ]
  },
  {
    "code":"height",
    "list":
    [
      {
        "code":"unit",
        "value":"centimeter"
      },
      {
        "code":"value",
        "value":"1"
      }
    ]
  }
],
"quote626":
{
  "price":
  {
    "currency":"INR",
    "value":"1394.00"
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count":2
      },
      "title":"Veg Pizza",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"1200.00"
      },
      "item":
      {
        "quantity":
        {
          "available":
          {
            "count":99
          },
          "maximum":
          {
            "count":99
          }
        },
        "price":
        {
          "currency":"INR",
          "value":"600.00"
        }
      }
    }
  }
},

```

---

<sup>626</sup> includes costs for both fulfillment options;

```

"@ondc/org/item_id":"F1",
"title":"Delivery charges",
"@ondc/org/title_type":"delivery",
"price":
{
  "currency":"INR",
  "value":"50.00"
}
},
{
  "@ondc/org/item_id":"F1",
  "title":"Tax",
  "@ondc/org/title_type":"tax627",
  "price":
  {
    "currency":"INR",
    "value":"9.00"
  },
  "item":
  {
    "tags":
    [
      {
        "code":"quote",
        "list":
        [
          {
            "code":"type",
            "value":"fulfillment"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Packing charges",
  "@ondc/org/title_type":"packing",
  "price":
  {
    "currency":"INR",
    "value":"25.00"
  }
},
{
  "@ondc/org/item_id":"F2",
  "title":"Delivery charges",
  "@ondc/org/title_type":"delivery",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  }
},
{
  "@ondc/org/item_id":"F2",
  "title":"Packing charges",
  "@ondc/org/title_type":"packing",
  "price":
  {
    "currency":"INR",
    "value":"25.00"
  }
},
{
  "@ondc/org/item_id":"F3",
  "title":"Delivery charges",
  "@ondc/org/title_type":"delivery",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  },
  "item":
  {
    "tags":

```

<sup>627</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```
[
  {
    "code": "quote",
    "list": [
      {
        "code": "type",
        "value": "fulfillment"
      }
    ]
  }
}

{
  "@ondc/org/item_id": "F3",
  "title": "Packing charges",
  "@ondc/org/title_type": "packing",
  "price": {
    "currency": "INR",
    "value": "25.00"
  },
  "item": {
    "tags": [
      {
        "code": "quote",
        "list": [
          {
            "code": "type",
            "value": "fulfillment"
          }
        ]
      }
    ]
  }
}

{
  "@ondc/org/item_id": "F3",
  "title": "Convenience fee",
  "@ondc/org/title_type": "misc",
  "price": {
    "currency": "INR",
    "value": "0.00"
  },
  "item": {
    "tags": [
      {
        "code": "quote",
        "list": [
          {
            "code": "type",
            "value": "fulfillment"
          }
        ]
      }
    ]
  }
}

{
  "@ondc/org/item_id": "I1",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price": {
    "currency": "INR",
    "value": "60.00"
  }
}

],
  "ttl": "PT30M"
}
}
```

## 7. Slotted delivery / pickup options

- Seller NP will forward all fulfilment options in different types (delivery, self-pickup) to buyer to select;
- For backward compatibility, the default functionality will be set as follows - option(s) for "Delivery" type will be the default fulfillment option, (with the Seller NP assigning this delivery type for the items), but the **quote will include the cost for all options for both delivery & self-pickup types (including "delivery", "packing", "tax" as applicable)**;
- **Buyer NP should check the default fulfillment(s) assigned to item(s) and extract the cost only for these fulfillment(s), from the quote, for displaying to the buyer NP along with other line items such as item, tax, etc;**
- Buyer can select a different fulfillment option for Delivery or Self-Pickup and this will be updated in /init;
- Each option will have:
  - Delivery (either of the following):
    - O2D TAT = max(O2S for all items) + S2D;
    - Slot for delivery;
  - Self-Pickup (either of the following):
    - O2S TAT = max(O2S for all items);
    - Slot for self pickup;

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "on_select",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M2",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T08:30:30.000Z"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1"
      },
      "items": [
        {
          "id": "I1",
          "fulfillment_id": "F1"628
        }
      ],
      "fulfillments": [
        {
          "id": "F1",
          "type": "Delivery",
          "@ondc/org/provider_name": "Provider Name",
          "tracking": false,
          "@ondc/org/category": "Immediate Delivery",
          "@ondc/org/TAT": "PT60M",
          "state": {
            "descriptor": {
              "code": "Serviceable"
            }
          },
          "end":629
        }
      ]
    }
  }
}
```

<sup>628</sup> default option - for immediate delivery;

<sup>629</sup> delivery time slot - either of the following required for fulfillment:

time slot (start, end) or TAT & (optionally) end;

if both provided, time slot will override;

```

"time":
{
  "range":
  {
    "start":"2023-06-03T09:30:00.000Z",
    "end":"2023-06-03T10:00:00.000Z"
  }
}
},
{
  "id":"F2",
  "type":"Delivery",
  "@ondc/org/provider_name":"Provider Name",
  "tracking":true,
  "@ondc/org/category":"Immediate Delivery",
  "@ondc/org/TAT":"PT90M",
  "state":
  {
    "descriptor":
    {
      "code":"Serviceable"
    }
  },
  "end":
  {
    "time":
    {
      "range":
      {
        "start":"2023-06-03T10:30:00.000Z",
        "end":"2023-06-03T11:00:00.000Z"
      }
    }
  }
},
{
  "id":"F3",
  "type":"Self-Pickup",
  "@ondc/org/provider_name":"",
  "tracking":false,
  "@ondc/org/category":"Takeaway",
  "@ondc/org/TAT":"PT30M",
  "state":
  {
    "descriptor":
    {
      "code":"Serviceable"
    }
  },
  "start630":
  {
    "time":
    {
      "range":
      {
        "start":"2023-06-03T09:15:00.000Z",
        "end":"2023-06-03T09:30:00.000Z"
      }
    }
  }
},
{
  "id":"F4",
  "type":"Self-Pickup",
  "@ondc/org/provider_name":"",
  "tracking":false,
  "@ondc/org/category":"Kerbside",
  "@ondc/org/TAT":"PT15M",
  "state":
  {
    "descriptor":
    {
      "code":"Serviceable"
    }
  }
}

```

---

<sup>630</sup> self pickup time slot - either either of the following required for fulfillment:  
 time slot (start, end) or  
 TAT & (optionally) end;  
 if both provided, time slot will override;

```

},
"start":
{
  "time":
  {
    "range":
    {
      "start":"2023-06-03T10:30:00.000Z",
      "end":"2023-06-03T10:45:00.000Z"
    }
  }
},
"quote":
{
  "price":
  {
    "currency":"INR",
    "value":"1335.00"
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count":2
      },
      "title":"Veg Pizza",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"1200.00"
      },
      "item":
      {
        "quantity":
        {
          "available":
          {
            "count":99
          },
          "maximum":
          {
            "count":99
          }
        },
        "price":
        {
          "currency":"INR",
          "value":"600.00"
        }
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Delivery charges",
      "@ondc/org/title_type":"delivery",
      "price":
      {
        "currency":"INR",
        "value":"50.00"
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Tax",
      "@ondc/org/title_type":"tax631",
      "price":
      {
        "currency":"INR",
        "value":"9.00"
      },
      "item":
      {

```

<sup>631</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

"tags":
[
  {
    "code":"quote",
    "list":
    [
      {
        "code":"type",
        "value":"fulfillment"
      }
    ]
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Packing charges",
    "@ondc/org/title_type":"packing",
    "price":
    {
      "currency":"INR",
      "value":"25.00"
    }
  },
  {
    "@ondc/org/item_id":"F2",
    "title":"Delivery charges",
    "@ondc/org/title_type":"delivery",
    "price":
    {
      "currency":"INR",
      "value":"30.00"
    }
  },
  {
    "@ondc/org/item_id":"F2",
    "title":"Tax",
    "@ondc/org/title_type":"tax632",
    "price":
    {
      "currency":"INR",
      "value":"5.40"
    },
    "item":
    {
      "tags":
      [
        {
          "code":"quote",
          "list":
          [
            {
              "code":"type",
              "value":"fulfillment"
            }
          ]
        }
      ]
    }
  },
  {
    "@ondc/org/item_id":"F2",
    "title":"Packing charges",
    "@ondc/org/title_type":"packing",
    "price":
    {
      "currency":"INR",
      "value":"25.00"
    }
  },
  {
    "@ondc/org/item_id":"F3",
    "title":"Delivery charges",
    "@ondc/org/title_type":"delivery",
    "price":
    {
  
```

<sup>632</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);



```
        "currency":"INR",
        "value":"0.00"
    }
},
{
    "@ondc/org/item_id":"F3",
    "title":"Packing charges",
    "@ondc/org/title_type":"packing",
    "price":
    {
        "currency":"INR",
        "value":"25.00"
    }
},
{
    "@ondc/org/item_id":"F4",
    "title":"Delivery charges",
    "@ondc/org/title_type":"delivery",
    "price":
    {
        "currency":"INR",
        "value":"0.00"
    }
},
{
    "@ondc/org/item_id":"F4",
    "title":"Packing charges",
    "@ondc/org/title_type":"packing",
    "price":
    {
        "currency":"INR",
        "value":"25.00"
    }
},
{
    "@ondc/org/item_id":"I1",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
    {
        "currency":"INR",
        "value": "60.00"
    }
}
],
"ttl":"PT30M"
}
}
```

## /init

- Following enhancements are included:
  - If buyer switches the fulfillment option(s), the updated fulfillment id will be sent in /init;

## Scenarios

### 1. For make-to-order product - Domino's Pizza (same as in /select above)

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "init",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M3",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T09:00:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 1
            },
            "parent_item_id": "DI1",
            "tags": [
              {
                "code": "type",
                "list": [
                  {
                    "code": "type",
                    "value": "item"
                  }
                ]
              }
            ],
            "id": "C1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 1
            },
            "parent_item_id": "DI1",
            "tags": [
              {
                "code": "type",
                "list": [
                  ...
                ]
              }
            ]
          }
        ]
      }
    }
  }
}
```

```
[
  {
    "code": "type",
    "value": "customization"
  }
],
{
  "code": "parent",
  "list":
  [
    {
      "code": "id",
      "value": "CG1"
    }
  ]
},
{
  "id": "C7",
  "fulfillment_id": "F1",
  "quantity":
  {
    "count": 1
  },
  "parent_item_id": "DI1",
  "tags":
  [
    {
      "code": "type",
      "list":
      [
        {
          "code": "type",
          "value": "customization"
        }
      ],
      "code": "parent",
      "list":
      [
        {
          "code": "id",
          "value": "CG2"
        }
      ]
    }
  ],
  "id": "C14",
  "fulfillment_id": "F1",
  "quantity":
  {
    "count": 1
  },
  "parent_item_id": "DI1",
  "tags":
  [
    {
      "code": "type",
      "list":
      [
        {
          "code": "type",
          "value": "customization"
        }
      ],
      "code": "parent",
      "list":
      [
        {
          "code": "id",
          "value": "CG3"
        }
      ]
    }
  ]
}
```

```

    ],
  },
  "id": "C16",
  "fulfillment_id": "F1",
  "quantity":
  {
    "count": 1
  },
  "parent_item_id": "DI1",
  "tags":
  [
    {
      "code": "type",
      "list":
      [
        {
          "code": "type",
          "value": "customization"
        }
      ],
      "code": "parent",
      "list":
      [
        {
          "code": "id",
          "value": "CG3"
        }
      ]
    }
  ],
  "id": "I1",
  "fulfillment_id": "F1",
  "quantity":
  {
    "count": 1
  },
  "parent_item_id": "DI2",
  "tags":
  [
    {
      "code": "type",
      "list":
      [
        {
          "code": "type",
          "value": "item"
        }
      ]
    }
  ],
  "id": "C2",
  "fulfillment_id": "F1",
  "quantity":
  {
    "count": 1
  },
  "parent_item_id": "DI2",
  "tags":
  [
    {
      "code": "type",
      "list":
      [
        {
          "code": "type",
          "value": "customization"
        }
      ],
      "code": "parent",
      "list":
      [
        {
          "code": "type",
          "value": "item"
        }
      ]
    }
  ]
}

```

```

    "code":"id",
    "value":"CG1"
  }
]
},
{
  "id":"C7",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
    }
  ],
  "id":"C14",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    }
  ],
  "id":"C15",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [

```

```
{
  "code":"type",
  "list":
  [
    {
      "code":"type",
      "value":"customization"
    }
  ],
  {
    "code":"parent",
    "list":
    [
      {
        "code":"id",
        "value":"CG3"
      }
    ]
  }
],
"offers633*:
[
  {
    "id":"BUY2GET3",
  }
],
"billing":
{
  "name":"ONDC buyer",
  "address":
  {
    "name":"my house or door or floor #634",
    "building":"my building name or house #",
    "locality635":"my street name",
    "city":"Bengaluru",
    "state":"Karnataka",
    "country":"IND",
    "area_code":560037
  },
  "tax_number636":"XXXXXXXXXXXXXX",
  "email637":"nobody@nomail.com",
  "phone":"9886098860",
  "created_at638":"2023-06-03T09:00:00.000Z",
  "updated_at639":"2023-06-03T09:00:00.000Z"
},
"fulfillments":
[
  {
    "id":"F1",
    "type":"Delivery",
    "end":
    {
      "location":
      {
        "gps":"12.453544,77.928379",
        "address640":
        {
          "name":"my house or door or floor #641",
          "building":"my building name or house #",
          "locality":"my street name",
          "city":"Bengaluru",
          "state":"Karnataka",
          "country":"IND",
          "area_code":560037
        }
      }
    }
  }
]
```

<sup>633</sup> optional, only if buyer selects offer code;

<sup>634</sup> house no (for independent dwellings) or door no (for apartments or community dwellings);  
if name is house no, building is optional;

<sup>635</sup> street name;

<sup>636</sup> optional, may be required for B2B;

<sup>637</sup> optional

<sup>638</sup> timestamp for creation of billing object;

<sup>639</sup> same as created\_at;

<sup>640</sup> **name + building + locality < 190 chars, name != locality;**

<sup>641</sup> house no (for independent dwellings) or door no (for apartments or community dwellings);  
if name is house no, building is optional;

```
        },
        "contact": [
            {
                "phone": "9886098860642"
            }
        ]
    }
}
```

---

<sup>642</sup> 10 digit mobile no;

2. For other product (similar to /select above)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "init",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M3",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T09:00:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      },
      "items": [
        {
          "id": "I1",
          "fulfillment_id": "F1",
          "quantity": {
            "count": 2
          }
        }
      ],
      "offers643": [
        {
          "id": "BUY2GET3"
        }
      ],
      "billing": {
        "name": "ONDC buyer",
        "address": {
          "name": "my house or door or floor #644",
          "building": "my building name or house #",
          "locality645": "my street name",
          "city": "Bengaluru",
          "state": "Karnataka",
          "country": "IND",
          "area_code": "560037"
        },
        "tax_number646: "XXXXXXXXXXXXXXXXXX",
        "email647: "nobody@nomail.com",
        "phone": "9886098860",
        "created_at648: "2023-06-03T09:00:00.000Z",
        "updated_at649: "2023-06-03T09:00:00.000Z"
      },
      "fulfillments": []
    }
  }
}
```

<sup>643</sup> optional, only if buyer selects offer code;

<sup>644</sup> house no (for independent dwellings) or door no (for apartments or community dwellings); if name is house no, building is optional;

<sup>645</sup> street name;

<sup>646</sup> optional, may be required for B2B;

<sup>647</sup> optional

<sup>648</sup> timestamp for creation of billing object;

<sup>649</sup> same as created\_at;

```
[
  {
    "id": "F1",
    "type": "Delivery",
    "end": [
      {
        "location": [
          {
            "gps": "12.453544,77.928379",
            "address650: [
              {
                "name": "my house or door or floor #651",
                "building": "my building name or house #",
                "locality": "my street name",
                "city": "Bengaluru",
                "state": "Karnataka",
                "country": "IND",
                "area_code": "560037"
              }
            ],
            "contact": [
              {
                "phone": "9886098860652"
              }
            ]
          }
        ]
      }
    ]
  }
]
```

<sup>650</sup> **name + building + locality < 190 chars, name != locality;**

<sup>651</sup> house no (for independent dwellings) or door no (for apartments or community dwellings); if name is house no, building is optional;

<sup>652</sup> 10 digit mobile no;

## /on\_init

- Following enhancements are included:
  - Cancellation terms
    - Cancellation terms will be defined by the seller for the order and only apply if the complete order is being cancelled (using /cancel or /on\_cancel), after order has been placed but before it is delivered;
    - Cancellation terms need to be defined for all fulfillment states, for all reason codes, and include cancellation fees (if any);
    - With cancellation terms enabled, order cancellation should be enabled for all fulfillment states, after order has been placed ("Pending") and before it is delivered ("Order-delivered");
  - Configurable terms for transaction level contract;

## Scenarios

### 1. For make-to-order product - Domino's Pizza (response to /init above)

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "on_init",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M3",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T09:00:30.000Z"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"653
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 1
            },
            "parent_item_id": "DI1",
            "tags": [
              {
                "code": "type",
                "list": [
                  {
                    "code": "type",
                    "value": "item"
                  }
                ]
              }
            ],
            "item": "PI1"
          }
        ],
        "status": "PENDING"
      }
    }
  }
}
```

<sup>653</sup> may be the same location as selected by the buyer or a different location;

```
{
  "id": "C1",
  "fulfillment_id": "F1",
  "quantity": {
    "count": 1
  },
  "parent_item_id": "DI1",
  "tags": [
    {
      "code": "type",
      "list": [
        {
          "code": "type",
          "value": "customization"
        }
      ]
    },
    {
      "code": "parent",
      "list": [
        {
          "code": "id",
          "value": "CG1"
        }
      ]
    }
  ],
  "id": "C7",
  "fulfillment_id": "F1",
  "quantity": {
    "count": 1
  },
  "parent_item_id": "DI1",
  "tags": [
    {
      "code": "type",
      "list": [
        {
          "code": "type",
          "value": "customization"
        }
      ]
    },
    {
      "code": "parent",
      "list": [
        {
          "code": "id",
          "value": "CG2"
        }
      ]
    }
  ],
  "id": "C14",
  "fulfillment_id": "F1",
  "quantity": {
    "count": 1
  },
  "parent_item_id": "DI1",
  "tags": [
    {
      "code": "type",
      "list": [
        {
          "code": "type",
          "value": "customization"
        }
      ]
    }
  ]
}
```

```
        },
        {
          "code": "parent",
          "list": [
            {
              "code": "id",
              "value": "CG3"
            }
          ]
        }
      },
      {
        "id": "C16",
        "fulfillment_id": "F1",
        "quantity": {
          "count": 1
        },
        "parent_item_id": "DI1",
        "tags": [
          {
            "code": "type",
            "list": [
              {
                "code": "type",
                "value": "customization"
              }
            ]
          },
          {
            "code": "parent",
            "list": [
              {
                "code": "id",
                "value": "CG3"
              }
            ]
          }
        ],
        {
          "id": "I1",
          "fulfillment_id": "F1",
          "quantity": {
            "count": 1
          },
          "parent_item_id": "DI2",
          "tags": [
            {
              "code": "type",
              "list": [
                {
                  "code": "type",
                  "value": "item"
                }
              ]
            }
          ],
          {
            "id": "C2",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 1
            },
            "parent_item_id": "DI2",
            "tags": [
              {
                "code": "type",
                "list": [
                  {
                    "code": "type",
                    "value": "item"
                  }
                ]
              }
            ]
          }
        }
      }
    ]
  }
}
```

```

"list":
[
  {
    "code":"type",
    "value":"customization"
  }
],
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG1"
    }
  ]
},
{
  "id":"C7",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
    }
  ],
  {
    "id":"C14",
    "fulfillment_id":"F1",
    "quantity":
    {
      "count":1
    },
    "parent_item_id":"DI2",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  }
]

```

```

    }
  ],
  {
    "id": "C15",
    "fulfillment_id": "F1",
    "quantity": [
      {
        "count": 1
      }
    ],
    "parent_item_id": "DI2",
    "tags": [
      [
        {
          "code": "type",
          "list": [
            [
              {
                "code": "type",
                "value": "customization"
              }
            ]
          ],
          "code": "parent",
          "list": [
            [
              {
                "code": "id",
                "value": "CG3"
              }
            ]
          ]
        }
      ],
      "billing654: {
        "name": "ONDC buyer",
        "address": [
          {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "tax_number655: "XXXXXXXXXXXXXXXXXX",
          "email656: "nobody@nomail.com",
          "phone": "9886098860",
          "created_at657: "2023-06-03T09:00:00.000Z",
          "updated_at658: "2023-06-03T09:00:00.000Z"
        },
        "fulfillments": [
          {
            "id": "F1",
            "type": "Delivery",
            "tracking": false,
            "end": [
              {
                "location": [
                  {
                    "gps": "12.453544,77.928379",
                    "address": [
                      {
                        "name": "my house or door or floor #",
                        "building": "my building name or house #",
                        "locality": "my street name",
                        "city": "Bengaluru",
                        "state": "Karnataka",
                        "country": "IND",
                      }
                    ]
                  }
                ]
              }
            ]
          }
        ]
      }
    ]
  }
}

```

<sup>654</sup> billing object timestamps (created\_at, updated\_at) have to be the same as in /init;

<sup>655</sup> optional, same as provided in /init;

<sup>656</sup> optional

<sup>657</sup> same as in /init;

<sup>658</sup> same as in /init;

```

      "area_code":"560037"
    },
    "contact":
    {
      "phone":"9886098860"
    }
  },
  "tags":
  [
    {
      "code":"rto_action659",
      "list":
      [
        {
          "code":"return_to_origin",
          "value":"yes"
        }
      ]
    }
  ],
  "quote":
  {
    "price":
    {
      "currency":"INR",
      "value":"1955.65"
    }
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count":1
      },
      "title":"Farm House Pizza",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"269.00"
      },
      "item":
      {
        "parent_item_id":"DI1",
        "quantity":
        {
          "available":
          {
            "count":99
          },
          "maximum":
          {
            "count":99
          }
        },
        "price":
        {
          "currency":"INR",
          "value":"269.00"
        }
      },
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"item"
            }
          ]
        }
      ]
    }
  }
]

```

<sup>659</sup> only if fulfillment.type="Buyer-Delivery", indicates whether RTO results in actual return to origin;

```

},
{
  "@ondc/org/item_id":"C1",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"New Hand Tossed",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "quantity":
    {
      "available":
      {
        "count":"99"
      },
      "maximum":
      {
        "count":"99"
      }
    },
    "price":
    {
      "currency":"INR",
      "value":"0.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG1"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"C7",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Large",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"450.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "quantity":
    {
      "available":
      {
        "count":"99"
      },
      "maximum":
      {
        "count":"99"
      }
    }
  }
}

```

```

    {
      "count":"99"
    },
    "price":
    {
      "currency":"INR",
      "value":"450.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG2"
          }
        ]
      }
    ],
    "@ondc/org/item_id":"C14",
    "@ondc/org/item_quantity":
    {
      "count":1
    },
    "title":"Grilled Mushrooms",
    "@ondc/org/title_type":"item",
    "price":
    {
      "currency":"INR",
      "value":"80.00"
    },
    "item":
    {
      "parent_item_id":"DI1",
      "quantity":
      {
        "available":
        {
          "count":99
        },
        "maximum":
        {
          "count":99
        }
      },
      "price":
      {
        "currency":"INR",
        "value":80.00
      },
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"customization"
            }
          ]
        },
        {
          "code":"parent",
          "list":
        }
      ]
    }
  }
}

```

```

[{"@ondc/org/item_id": "C16", "@ondc/org/item_quantity": {"count": 1}, "title": "Pepper Barbeque Chicken", "@ondc/org/title_type": "item", "price": {"currency": "INR", "value": "95.00"}, "item": {"parent_item_id": "DI1", "quantity": {"available": {"count": 99}, "maximum": {"count": 99}}, "price": {"currency": "INR", "value": "95.00"}}, "tags": [{"code": "type", "list": [{"code": "type", "value": "customization"}]}, {"code": "parent", "list": [{"code": "id", "value": "CG3"}]}], {"@ondc/org/item_id": "I1", "@ondc/org/item_quantity": {"count": 1}, "title": "Farm House Pizza", "@ondc/org/title_type": "item", "price": {"currency": "INR", "value": "269.00"}}, "item": {"parent_item_id": "DI1", "quantity": {"available": {"count": 99}, "maximum": {"count": 99}}, "price": {"currency": "INR", "value": "269.00"}}, {"code": "parent", "list": [{"code": "id", "value": "CG3"}]}]
  
```

```
{
  "parent_item_id": "DI2",
  "quantity": [
    {
      "available": [
        {
          "count": "99"
        }
      ],
      "maximum": [
        {
          "count": "99"
        }
      ]
    },
    "price": [
      {
        "currency": "INR",
        "value": "269.00"
      }
    ],
    "tags": [
      {
        "code": "type",
        "list": [
          [
            {
              "code": "type",
              "value": "item"
            }
          ]
        ]
      }
    ],
    "@ondc/org/item_id": "C2",
    "@ondc/org/item_quantity": [
      {
        "count": 1
      }
    ],
    "title": "100% Wheat Thin Crust",
    "@ondc/org/title_type": "item",
    "price": [
      {
        "currency": "INR",
        "value": "0.00"
      }
    ],
    "item": [
      {
        "parent_item_id": "DI2",
        "quantity": [
          {
            "available": [
              {
                "count": "99"
              }
            ],
            "maximum": [
              {
                "count": "99"
              }
            ]
          },
          "price": [
            {
              "currency": "INR",
              "value": "0.00"
            }
          ],
          "tags": [
            {
              "code": "type",
              "list": [
                [
                  {
                    "code": "type",
                    "value": "customization"
                  }
                ]
              ],
              {
                "code": "parent",
                "list": [
                  [
                    {
                      "code": "parent"
                    }
                  ]
                ]
              }
            }
          ]
        ]
      }
    ]
  ]
}
```

```

    {
      "code":"id",
      "value":"CG1"
    }
  ]
}
},
"@ondc/org/item_id":"C7",
"@ondc/org/item_quantity":
{
  "count":1
},
"title":"Large",
"@ondc/org/title_type":"item",
"price":
{
  "currency":"INR",
  "value":"450.00"
},
"item":
{
  "parent_item_id":"DI2",
  "quantity":
  {
    "available":
    {
      "count":99
    },
    "maximum":
    {
      "count":99
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"450.00"
  },
  "tags":
  [
  {
    "code":"type",
    "list":
    [
    {
      "code":"type",
      "value":"customization"
    }
  ],
    "code":"parent",
    "list":
    [
    {
      "code":"id",
      "value": "CG2"
    }
  ]
}
},
"@ondc/org/item_id":"C14",
"@ondc/org/item_quantity":
{
  "count":1
},
"title":"Grilled Mushrooms",
"@ondc/org/title_type":"item",
"price":
{
  "currency":"INR",
  "value":"80.00"
},
"item":
{

```

```

"parent_item_id":"DI2",
"quantity":
{
  "available":
  {
    "count":"99"
  },
  "maximum":
  {
    "count":"99"
  }
},
"price":
{
  "currency":"INR",
  "value":"80.00"
},
"tags":
[
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"customization"
      }
    ],
    "code":"parent",
    "list":
    [
      {
        "code":"id",
        "value":"CG3"
      }
    ]
  }
],
"@ondc/org/item_id":"C15",
"@ondc/org/item_quantity":
{
  "count":1
},
"title":"Fresh Tomato",
"@ondc/org/title_type":"item",
"price":
{
  "currency":"INR",
  "value":"80.00"
},
"item":
{
  "parent_item_id":"DI2",
  "quantity":
  {
    "available":
    {
      "count":99
    },
    "maximum":
    {
      "count":99
    }
  },
  "price":
  {
    "currency":"INR",
    "value":"80.00"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    }
  ]
}
]
}
  
```

```

    "code":"type",
    "value":"customization"
  }
},
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG3"
    }
  ]
},
{
  "@ondc/org/item_id":"I1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"13.45"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"item"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"C1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG1"
          }
        ]
      }
    ]
  }
}
  
```

```

},
{
  "@ondc/org/item_id":"C7",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"22.50"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG2"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"C14",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"4.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"C16",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
}

```

```

    "currency":"INR",
    "value":"4.75"
},
"item":
{
  "parent_item_id":"DI1",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG1"
        }
      ]
    }
  ],
  "@ondc/org/item_id":"I1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"13.45"
  }
},
"item":
{
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"item"
        }
      ]
    }
  ],
  "@ondc/org/item_id":"C2",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"22.50"
  }
},
"item":
{
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    }
  ]
}
  
```

```

},
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG1"
    }
  ]
}
{
  "@ondc/org/item_id":"C7",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"22.50"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG2"
          }
        ]
      }
    ]
  },
  "@ondc/org/item_id":"C14",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"4.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  }
}

```

```

    "value":"CG3"
  }
}
},
"@ondc/org/item_id":"C15",
"title":"Tax",
"@ondc/org/title_type":"tax",
"price":
{
  "currency":"INR",
  "value":"4.00"
},
"item":
{
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    }
  ]
},
"@ondc/org/item_id":"F1",
"title":"Delivery charges",
"@ondc/org/title_type":"delivery",
"price":
{
  "currency":"INR",
  "value":"50.00"
},
{
  "@ondc/org/item_id":"F1",
  "title":"Tax",
  "@ondc/org/title_type":"tax660",
  "price":
  {
    "currency":"INR",
    "value":"9.00"
  },
  "item":
  {
    "tags":
    [
      {
        "code":"quote",
        "list":
        [
          {
            "code":"type",
            "value":"fulfillment"
          }
        ]
      }
    ]
  }
}

```

<sup>660</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

    ],
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Packing charges",
    "@ondc/org/title_type":"packing",
    "price":
    {
      "currency":"INR",
      "value":"25.00"
    }
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Convenience Fee",
    "@ondc/org/title_type":"misc",
    "price":
    {
      "currency":"INR",
      "value":"10.00"
    }
  }
],
"ttl":"PT1H"
},
"payment661":
{
  "type":"ON-ORDER",
  "collected_by":"BPP",
  "uri":"https://snp.com/pg",
  "status":"NOT-PAID662",
  "@ondc/org/buyer_app_finder_fee_type":"percent",
  "@ondc/org/buyer_app_finder_fee_amount":"3",
  "@ondc/org/settlement_basis":"delivery663",
  "@ondc/org/settlement_window":"P1D664",
  "@ondc/org/withholding_amount":"10.00665",
  "tags":
  [
    {
      "code":"bpp_collect666",
      "list":
      [
        {
          "code":"success",
          "value":"Y"
        },
        {
          "code":"error",
          "value":".."
        }
      ]
    }
  ]
},
"@ondc/org/settlement_details667":
[
  {
    "settlement_counterparty":"seller-app",
    "settlement_phase":"sale-amount",
    "settlement_type":"upi668",
    "beneficiary_name":"xxxxx",
    "upi_address":"gft@oksbi",
    "settlement_bank_account_no":"XXXXXXXXXXXX",
    "settlement_ifsc_code":"XXXXXXXXXX",
    "bank_name":"xxxx",
    "branch_name":"xxxx"
  }
]

```

<sup>661</sup> for CoD, buyer NP may send their settlement details in /confirm;

<sup>662</sup> enum - "PAID", "NOT-PAID";

<sup>663</sup> indicates from when settlement window starts, enum - "delivery" (from delivery), "shipment" (from shipment), "return\_window\_expiry" (from expiry of return window);

<sup>664</sup> settlement window, as per settlement basis, in ISO8601 Duration format;

<sup>665</sup> withholding amount as % of total order value (valid values between "0.00" and "100.00");

<sup>666</sup> optional - only if [SNP collecting payment](#);

<sup>667</sup> optional

<sup>668</sup> enum - "upi", "neft", "rtgs"; for "upi", upi\_address needs to be entered & for the other settlement\_type, ("settlement\_bank\_account\_no", "settlement\_ifsc\_code", "bank\_name", "branch\_name") should be entered;

```

},
"cancellation_terms":
[
{
  "fulfillment_state":
  {
    "descriptor":
    {
      "code":"Pending669",
      "short_desc670":"002"
    }
  },
  "cancellation_fee671":
  {
    "percentage":"0.00",
    "amount":
    {
      "currency":"INR",
      "value":"0.00"
    }
  }
},
{
  "fulfillment_state":
  {
    "descriptor":
    {
      "code":"Packed",
      "short_desc":"001,003"
    }
  },
  "cancellation_fee":
  {
    "percentage":"10.00",
    "amount":
    {
      "currency":"INR",
      "value":"195.57"
    }
  }
},
{
  "fulfillment_state":
  {
    "descriptor":
    {
      "code":"Order-picked-up",
      "short_desc":"001,003"
    }
  },
  "cancellation_fee":
  {
    "percentage":"10.00",
    "amount":
    {
      "currency":"INR",
      "value":"195.57"
    }
  }
},
{
  "fulfillment_state":
  {
    "descriptor":
    {
      "code":"Out-for-delivery",
      "short_desc":"009"
    }
  },
  "cancellation_fee":
  {
    "percentage":"0.00",
    "amount":
    {

```

---

<sup>669</sup> fulfillment state;

<sup>670</sup> reason code (list [here](#));

<sup>671</sup> cancellation fee, if any, for this state & reason code - either percentage (of order value, in the above format between "0.00" and "100.00") or amount needs to be provided (if both provided, minimum should be considered by buyer NP); seller NP can calculate based on what needs to be deducted e.g. packaging charges / convenience fee / product cost, etc;

```

    "currency":"INR",
    "value":"0.00"
  }
},
{
  "fulfillment_state":
  {
    "descriptor":
    {
      "code":"Out-for-delivery",
      "short_desc":"010,011,012,013,014,015672"
    }
  },
  "cancellation_fee":
  {
    "percentage":"20.00",
    "amount":
    {
      "currency":"INR",
      "value":"391.14"
    }
  }
},
{
  "tags":
  [
    {
      "code":"bpp_terms673",
      "list":
      [
        {
          "code":"max_liability",
          "value":"2"
        },
        {
          "code":"max_liability_cap",
          "value":"10000.00"
        },
        {
          "code":"mandatory_arbitration",
          "value":"false"
        },
        {
          "code":"court_jurisdiction",
          "value":"Bengaluru"
        },
        {
          "code":"delay_interest",
          "value":"7.50"
        },
        {
          "code":"tax_number674",
          "value":"gst_number_of_sellerNP"
        },
        {
          "code":"provider_tax_number675",
          "value":"PAN_number_of_provider"
        }
      ]
    }
  ]
}
}

```

**N.B.**

1. Seller NP should perform an inventory & price check in /on\_init. In case of item out of stock, error response should be same as in [/on\\_select](#);
2. **Seller NP may apply buyer-specific cashback offers** (can only be applied only after the buyer is identified). **These offers cannot be a part of the catalog and will be explicitly applied in /on\_init, with title\_type = "offer" and**

<sup>672</sup> list of reason codes delimited by "," (above shows RTO reason codes where buyer is not available);

<sup>673</sup> buyer NP has to accept bpp terms in /confirm. If buyer NP doesn't accept these terms, they should NACK /on\_init with error code 27501;

<sup>674</sup> GST no for ISN/MSN for TDS/TCS deduction / input credit, KYC verification. For MSN/ISN with stores located in multiple states, the GST no for HQ for the provider legal entity should be provided;

<sup>675</sup> if PAN no of SNP & provider is same, NP is ISN, else MSN;

- quote.breakup[].price.value having a negative value equal to the cashback; however, the rules in the previous section for item count / value for offer will still hold;
3. If /on\_select returned multiple fulfillment options, the buyer may switch the fulfillment option from the default fulfillment(s) assigned in /on\_select. In this case, the quote in /on\_init will be updated based on the fulfillment option selected by buyer;
  4. The quote in /on\_init will be the final quote for the order prior to /confirm. Both seller NP & buyer NP respectively should validate that the quote in /confirm and /on\_confirm matches the quote in /on\_init (both for the total and for individual line items);

2. For other product (response to /init above)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_init",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M3",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T09:00:30.000Z"
  },
  "message": {
    "order": {
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"676
          }
        ]
      },
      "items": [
        {
          "id": "I1",
          "fulfillment_id": "F1",
          "quantity": {
            "count": 2
          }
        }
      ],
      "billing"677: {
        "name": "ONDC buyer",
        "address": {
          "name": "my house or door or floor #",
          "building": "my building name or house #",
          "locality": "my street name",
          "city": "Bengaluru",
          "state": "Karnataka",
          "country": "IND",
          "area_code": "560037"
        },
        "tax_number"678: "XXXXXXXXXXXXXXXXXX",
        "email"679: "nobody@nomail.com",
        "phone": "9886098860",
        "created_at"680: "2023-06-03T09:00:00.000Z",
        "updated_at"681: "2023-06-03T09:00:00.000Z"
      },
      "fulfillments": [
        {
          "id": "F1",
          "type": "Delivery",
          "tracking": false,
          "end": {
            "location": {
              "id": "L1"
            }
          }
        }
      ]
    }
  }
}
```

<sup>676</sup> may be the same location as selected by the buyer or a different location;

<sup>677</sup> billing object timestamps (created\_at, updated\_at) have to be the same as in /init;

<sup>678</sup> optional, same as provided in /init;

<sup>679</sup> optional

<sup>680</sup> same as in /init;

<sup>681</sup> same as in /init;

```

"gps":"12.453544,77.928379",
"address":
{
  "name":"my house or door or floor #",
  "building":"my building name or house #",
  "locality":"my street name",
  "city":"Bengaluru",
  "state":"Karnataka",
  "country":"IND",
  "area_code":560037
}
},
"contact":
{
  "phone":9886098860
}
},
"tags":
[
  {
    "code":"rto_action682",
    "list":
    [
      {
        "code":"return_to_origin",
        "value":"yes"
      }
    ]
  }
],
"quote":
{
  "price":
  {
    "currency":INR,
    "value":424.00
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":I1,
      "@ondc/org/item_quantity":
      {
        "count":2
      },
      "title":Atta,
      "@ondc/org/title_type":item,
      "price":
      {
        "currency":INR,
        "value":340.00
      },
      "item":
      {
        "price":
        {
          "currency":INR,
          "value":170.00
        }
      }
    },
    {
      "@ondc/org/item_id":F1,
      "title":Delivery charges,
      "@ondc/org/title_type":delivery,
      "price":
      {
        "currency":INR,
        "value":50.00
      }
    }
  ],
  "@ondc/org/item_id":F1,
  "title":Tax,

```

<sup>682</sup> only if fulfillment.type="Buyer-Delivery", indicates whether RTO results in actual return to origin;

```

"@ondc/org/title_type":"tax683,
"price":
{
  "currency":"INR",
  "value":"9.00"
},
"item":
{
  "tags":
  [
    {
      "code":"quote",
      "list":
      [
        {
          "code":"type",
          "value":"fulfillment"
        }
      ]
    }
  ],
  "@ondc/org/item_id":"F1",
  "title":"Packing charges",
  "@ondc/org/title_type":"packing",
  "price":
  {
    "currency":"INR",
    "value":"25.00"
  },
  "@ondc/org/item_id":"I1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value": "0.00"
  },
  "@ondc/org/item_id":"I1",
  "title":"Discount",
  "@ondc/org/title_type":"discount",
  "price":
  {
    "currency":"INR",
    "value": "-10.00"
  },
  "@ondc/org/item_id":"F1",
  "title":"Convenience Fee",
  "@ondc/org/title_type":"misc",
  "price":
  {
    "currency":"INR",
    "value":"10.00"
  }
},
],
"ttl":"P1D"
},
"payment684:
{
  "type":"ON-ORDER",
  "collected_by":"BPP",
  "uri":"https://snp.com/pg",
  "status":"NOT-PAID685",
  "@ondc/org/buyer_app_finder_fee_type":"percent",
  "@ondc/org/buyer_app_finder_fee_amount":"3",
}

```

<sup>683</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

<sup>684</sup> if seller NP is collecting pre-paid payment (for categories like electronics), they may provide the following - type, collected\_by, uri (payment link), status, settlement\_basis, settlement\_window, withholding\_amount;;

<sup>685</sup> enum - "PAID", "NOT-PAID";

```

"@ondc/org/settlement_basis":"delivery686,
"@ondc/org/settlement_window":"P1D687,
"@ondc/org/withholding_amount":"10.00688,
"tags":
[
{
  "code":"bpp_collect689,
  "list":
  [
    {
      "code":"success",
      "value":"Y"
    },
    {
      "code":"error",
      "value":".."
    }
  ]
},
"@ondc/org/settlement_details690:
[
{
  "settlement_counterparty":"seller-app",
  "settlement_phase":"sale-amount",
  "settlement_type":"upi691",
  "beneficiary_name":"xxxxx",
  "upi_address":"gft@oksbi",
  "settlement_bank_account_no":"XXXXXXXXXXXX",
  "settlement_ifsc_code":"XXXXXXXXXX",
  "bank_name":"xxxx",
  "branch_name":"xxxx"
}
],
"cancellation_terms":
[
{
  "fulfillment_state":
  {
    "descriptor":
    {
      "code":"Pending692,
      "short_desc693":"002"
    }
  },
  "cancellation_fee694:
  {
    "percentage":"0.00",
    "amount":
    {
      "currency":"INR",
      "value":"0.00"
    }
  }
},
{
  "fulfillment_state":
  {
    "descriptor":
    {
      "code":"Packed",
      "short_desc":"001,003"
    }
  }
},

```

<sup>686</sup> indicates from when settlement window starts, enum - "delivery" (from delivery), "shipment" (from shipment), "return\_window\_expiry" (from expiry of return window);

<sup>687</sup> settlement window, as per settlement basis, in ISO8601 Duration format;

<sup>688</sup> withholding amount as % of total order value (valid values between "0.00" and "100.00");

<sup>689</sup> optional - only if [SNP collecting payment](#);

<sup>690</sup> optional (may be provided by seller NP if they are not collecting payment or not CoD payment);

<sup>691</sup> enum - "upi", "neft", "rtgs"; for "upi", upi\_address needs to be entered & for the other settlement\_type, ("settlement\_bank\_account\_no", "settlement\_ifsc\_code", "bank\_name", "branch\_name") should be entered;

<sup>692</sup> fulfillment state;

<sup>693</sup> reason code (list [here](#));

<sup>694</sup> cancellation fee, if any, for this state & reason code - either percentage (of order value, in the above format between "0.00" and "100.00") or amount needs to be provided (if both provided, minimum should be considered by buyer NP); seller NP can calculate based on what needs to be deducted e.g. packaging charges / convenience fee / product cost, etc;

```

    "cancellation_fee695":
    {
      "percentage":"10.00",
      "amount":
      {
        "currency":"INR",
        "value":"42.40"
      }
    },
    "fulfillment_state":
    {
      "descriptor":
      {
        "code":"Order-picked-up",
        "short_desc":"001,003"
      }
    },
    "cancellation_fee":
    {
      "percentage":"10.00",
      "amount":
      {
        "currency":"INR",
        "value":"42.40"
      }
    },
    "fulfillment_state":
    {
      "descriptor":
      {
        "code":"Out-for-delivery",
        "short_desc":"009"
      }
    },
    "cancellation_fee696":
    {
      "percentage":"0.00",
      "amount":
      {
        "currency":"INR",
        "value":"0.00"
      }
    },
    "fulfillment_state":
    {
      "descriptor":
      {
        "code":"Out-for-delivery",
        "short_desc":"010,011,012,013,014,015697"
      }
    },
    "cancellation_fee698":
    {
      "percentage":"20.00",
      "amount":
      {
        "currency":"INR",
        "value":"84.80"
      }
    }
  ],
  "tags":
  [
    {
      "code":"bpp_terms699",

```

<sup>695</sup> cancellation fee, if any of this state & reason code could include packing charge - either percentage (of order value) or amount needs to be provided (if both provided, minimum should be considered by buyer NP);

<sup>696</sup> in case of RTO where buyer is responsible, the forward & reverse shipment costs could be deducted as cancellation fees;

<sup>697</sup> list of reason codes delimited by "," (above shows RTO reason codes where buyer is not available);

<sup>698</sup> in case of RTO where buyer is responsible, the forward & reverse shipment costs could be deducted as cancellation fees;

<sup>699</sup> buyer NP has to accept bpp terms in /confirm. If buyer NP doesn't accept these terms, they should NACK /on\_init with error code 27501;

```

"list":
[
  {
    "code":"max_liability",
    "value":"2"
  },
  {
    "code":"max_liability_cap",
    "value":"10000.00"
  },
  {
    "code":"mandatory_arbitration",
    "value":"false"
  },
  {
    "code":"court_jurisdiction",
    "value":"Bengaluru"
  },
  {
    "code":"delay_interest",
    "value":"7.50"
  },
  {
    "code":"tax_number700",
    "value":"gst_number_of_sellerNP"
  },
  {
    "code":"provider_tax_number701",
    "value":"PAN_number_of_provider"
  }
]
}
}

```

---

<sup>700</sup> GST no for ISN/MSN for TDS/TCS deduction / input credit, KYC verification. For MSN/ISN with stores located in multiple states, the GST no for HQ for the provider legal entity should be provided;

<sup>701</sup> if PAN no of SNP & provider is same, NP is ISN, else MSN;

## /confirm

### Scenarios

#### 1. For make-to-order product - Domino's Pizza (similar to /init above)

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "confirm",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M4",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T09:30:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "id": "O1702",702
      "state": "Created",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 1
            },
            "parent_item_id": "DI1",
            "tags": [
              {
                "code": "type",
                "list": [
                  {
                    "code": "type",
                    "value": "item"
                  }
                ]
              }
            },
            "id": "C1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 1
            },
            "parent_item_id": "DI1",
            "tags": [
              {
                "code": "type",
                "list": [
                  {
                    "code": "type",
                    "value": "item"
                  }
                ]
              }
            }
          }
        ]
      }
    }
  }
}
```

<sup>702</sup> alphanumeric, up to 32 characters;

```

"list":
[
  {
    "code":"type",
    "value":"customization"
  }
],
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG1"
    }
  ]
},
{
  "id":"C7",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI1",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
    }
  ],
  {
    "id":"C14",
    "fulfillment_id":"F1",
    "quantity":
    {
      "count":1
    },
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  }
]

```

```

        }
      ],
    },
    {
      "id": "C16",
      "fulfillment_id": "F1",
      "quantity": [
        {
          "count": 1
        }
      ],
      "parent_item_id": "DI1",
      "tags": [
        [
          {
            "code": "type",
            "list": [
              [
                {
                  "code": "type",
                  "value": "customization"
                }
              ]
            ],
            "code": "parent",
            "list": [
              [
                {
                  "code": "id",
                  "value": "CG3"
                }
              ]
            ]
          }
        ],
        {
          "id": "I1",
          "fulfillment_id": "F1",
          "quantity": [
            {
              "count": 1
            }
          ],
          "parent_item_id": "DI2",
          "tags": [
            [
              {
                "code": "type",
                "list": [
                  [
                    {
                      "code": "type",
                      "value": "item"
                    }
                  ]
                ]
              }
            ],
            {
              "id": "C2",
              "fulfillment_id": "F1",
              "quantity": [
                {
                  "count": 1
                }
              ],
              "parent_item_id": "DI2",
              "tags": [
                [
                  {
                    "code": "type",
                    "list": [
                      [
                        {
                          "code": "type",
                          "value": "customization"
                        }
                      ]
                    ],
                    "code": "parent",
                    "list": [
                      [
                        [
                          {
                            "code": "type",
                            "value": "item"
                          }
                        ]
                      ]
                    ]
                  }
                ]
              ]
            }
          ]
        }
      ]
    }
  ]
}

```

```

    {
      "code":"id",
      "value":"CG1"
    }
  ]
},
{
  "id":"C7",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
    }
  ],
  {
    "id":"C14",
    "fulfillment_id":"F1",
    "quantity":
    {
      "count":1
    },
    "parent_item_id":"DI2",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ],
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ],
    {
      "id":"C15",
      "fulfillment_id":"F1",
      "quantity":
      {
        "count":1
      },
      "parent_item_id":"DI2",
      "tags":
    }
  }
]
}
  
```

```
[
  {
    "code": "type",
    "list": [
      {
        "code": "type",
        "value": "customization"
      }
    ]
  },
  {
    "code": "parent",
    "list": [
      {
        "code": "id",
        "value": "CG3"
      }
    ]
  }
],
703"offers": [
  {
    "id": "BUY2GET3",
  }
],
704"billing": {
  "name": "ONDC buyer",
  "address": {
    "name": "my house or door or floor #",
    "building": "my building name or house #",
    "locality": "my street name",
    "city": "Bengaluru",
    "state": "Karnataka",
    "country": "IND",
    "area_code": "560037"
  },
  "phone": "9886098860",
  "email": "nobody@nomail.com",
  "created_at": "2023-02-03T09:00:00.000Z",
  "updated_at": "2023-02-03T09:00:00.000Z"
},
705"fulfillments": [
  {
    "id": "F1",
    "type": "Delivery",
    "@ondc/org/TAT": "PT60M707",
    "tracking": false,
    "end": {
      "person": {
        "name": "name_of_person"
      },
      "contact": {
        "email": "nobody@nomail.com",
        "phone": "9886098860"
      },
      "location": {
        "gps": "12.453544,77.928379",
        "address": {
          "name": "my house or door or floor #",
        }
      }
    }
  }
]
```

<sup>703</sup> optional, only if buyer selects offer code;

<sup>704</sup> optional

<sup>705</sup> same as in /init;

<sup>706</sup> same as in /init;

<sup>707</sup> same as what is proposed in /on\_select; If TAT is different from what was originally quoted in /on\_select, seller NP can NACK the request with error code 30013;

<sup>708</sup> optional

```

"building":"my building name or house #",
"locality":"my street name",
"city":"Bengaluru",
"state":"Karnataka",
"country":"IND",
"area_code":"560037"
}
},
"vehicle709":
{
  "registration":"3LVJ945"
}
},
"quote":
{
  "price":
  {
    "currency":"INR",
    "value":"1955.65"
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count":1
      },
      "title":"Farm House Pizza",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"269.00"
      },
      "item":
      {
        "parent_item_id":"DI1",
        "price":
        {
          "currency":"INR",
          "value":"269.00"
        }
      },
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"item"
            }
          ]
        }
      }
    },
    {
      "@ondc/org/item_id":"C1",
      "@ondc/org/item_quantity":
      {
        "count":1
      },
      "title":"New Hand Tossed",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"0.00"
      },
      "item":
      {
        "parent_item_id":"DI1",
        "price":
        {

```

---

<sup>709</sup> only for type "Self-Pickup", category "Kerbside";

```

    "currency":"INR",
    "value":"0.00"
},
"tags":
[
{
  "code":"type",
  "list":
  [
    {
      "code":"type",
      "value":"customization"
    }
  ],
  {
    "code":"parent",
    "list":
    [
      {
        "code":"id",
        "value":"CG1"
      }
    ]
  }
},
{
  "@ondc/org/item_id":"C7",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Large",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"450.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "price":
    {
      "currency":"INR",
      "value":"450.00"
    }
  },
  "tags":
  [
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"customization"
      }
    ],
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
    }
  }
},
{
  "@ondc/org/item_id":"C14",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Grilled Mushrooms",

```

```

"@ondc/org/title_type":"item",
"price":
{
  "currency":"INR",
  "value":"80.00"
},
"item":
{
  "parent_item_id":"DI1",
  "price":
  {
    "currency":"INR",
    "value":"80.00"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    }
  ]
},
{
  "@ondc/org/item_id":"C16",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Pepper Barbeque Chicken",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"95.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "price":
    {
      "currency":"INR",
      "value":"95.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  }
}
  
```

```

    }
  },
  {
    "@ondc/org/item_id": "I1",
    "@ondc/org/item_quantity":
    {
      "count": 1
    },
    "title": "Farm House Pizza",
    "@ondc/org/title_type": "item",
    "price":
    {
      "currency": "INR",
      "value": "269.00"
    },
    "item":
    {
      "parent_item_id": "DI2",
      "price":
      {
        "currency": "INR",
        "value": "269.00"
      },
      "tags":
      [
        {
          "code": "type",
          "list":
          [
            {
              "code": "type",
              "value": "item"
            }
          ]
        }
      ]
    },
    {
      "@ondc/org/item_id": "C2",
      "@ondc/org/item_quantity":
      {
        "count": 1
      },
      "title": "100% Wheat Thin Crust",
      "@ondc/org/title_type": "item",
      "price":
      {
        "currency": "INR",
        "value": "0.00"
      },
      "item":
      {
        "parent_item_id": "DI2",
        "price":
        {
          "currency": "INR",
          "value": "0.00"
        },
        "tags":
        [
          {
            "code": "type",
            "list":
            [
              {
                "code": "type",
                "value": "customization"
              }
            ]
          },
          {
            "code": "parent",
            "list":
            [
              {
                "code": "id",
                "value": "CG1"
              }
            ]
          }
        ]
      }
    }
  }
}

```

```

        ]
      },
    {
      "@ondc/org/item_id":"C7",
      "@ondc/org/item_quantity":
      {
        "count":1
      },
      "title":"Large",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"450.00"
      },
      "item":
      {
        "parent_item_id":"DI2",
        "price":
        {
          "currency":"INR",
          "value":"450.00"
        },
        "tags":
        [
          {
            "code":"type",
            "list":
            [
              {
                "code":"type",
                "value":"customization"
              }
            ],
            "code":"parent",
            "list":
            [
              {
                "code":"id",
                "value":"CG2"
              }
            ]
          }
        }
      },
      "@ondc/org/item_id":"C14",
      "@ondc/org/item_quantity":
      {
        "count":1
      },
      "title":"Grilled Mushrooms",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"80.00"
      },
      "item":
      {
        "parent_item_id":"DI2",
        "price":
        {
          "currency":"INR",
          "value":"80.00"
        },
        "tags":
        [
          {
            "code":"type",
            "list":
            [
              {
                "code":"type",
                "value":"customization"
              }
            ]
          }
        ]
      }
    }
  ]
}

```

```

    }
  },
  {
    "code":"parent",
    "list":
    [
      {
        "code":"id",
        "value":"CG3"
      }
    ]
  },
  {
    "@ondc/org/item_id":"C15",
    "@ondc/org/item_quantity":
    {
      "count":1
    },
    "title":"Fresh Tomato",
    "@ondc/org/title_type":"item",
    "price":
    {
      "currency":"INR",
      "value":"80.00"
    },
    "item":
    {
      "parent_item_id":"DI2",
      "price":
      {
        "currency":"INR",
        "value":"80.00"
      },
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"customization"
            }
          ],
          "code":"parent",
          "list":
          [
            {
              "code":"id",
              "value":"CG3"
            }
          ]
        }
      }
    },
    {
      "@ondc/org/item_id":"I1",
      "title":"Tax",
      "@ondc/org/title_type":"tax",
      "price":
      {
        "currency":"INR",
        "value":"13.45"
      },
      "item":
      {
        "parent_item_id":"DI1",
        "tags":
        [
          {
            "code":"type",
            "list":
            [
              {
                "code":"type",
                "value":"tax"
              }
            ]
          }
        ]
      }
    }
  }
]

```

```

    "code":"type",
    "value":"item"
  }
}
},
{
  "@ondc/org/item_id":"C1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG1"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"C7",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"22.50"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG2"
          }
        ]
      }
    ]
  }
}

```

```

},
{
  "@ondc/org/item_id":"C14",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"4.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"C16",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"4.75"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG1"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"I1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {

```

```

    "currency":"INR",
    "value":"13.45"
},
"item":
{
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"item"
        }
      ]
    }
  ],
  "@ondc/org/item_id":"C2",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"22.50"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG1"
          }
        ]
      }
    ]
  },
  "@ondc/org/item_id":"C7",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"22.50"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      }
    ]
  }
}

```

```

},
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG2"
    }
  ]
}
{
  "@ondc/org/item_id":"C14",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"4.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  },
  "@ondc/org/item_id":"C15",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"4.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG4"
          }
        ]
      }
    ]
  }
}

```

```

    "value":"CG3"
  }
}
"@ondc/org/item_id":"F1",
"title":"Delivery charges",
"@ondc/org/title_type":"delivery",
"price":
{
  "currency":"INR",
  "value":"50.00"
},
{
  "@ondc/org/item_id":"F1",
  "title":"Tax",
  "@ondc/org/title_type":"tax710",
  "price":
  {
    "currency":"INR",
    "value":"9.00"
  },
  "item":
  {
    "tags":
    [
      {
        "code":"quote",
        "list":
        [
          {
            "code":"type",
            "value":"fulfillment"
          }
        ]
      }
    ],
    "@ondc/org/item_id":"F1",
    "title":"Packing charges",
    "@ondc/org/title_type":"packing",
    "price":
    {
      "currency":"INR",
      "value":"25.00"
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Convenience Fee",
      "@ondc/org/title_type":"misc",
      "price":
      {
        "currency":"INR",
        "value":"10.00"
      }
    }
  ],
  "ttl":"PT1H"
},
"payment":
{
711
  "un712":"https://ondc.transaction.com/payment",
  "tl_method":"http/get",
  "params":
  {
    "currency":"INR",

```

<sup>710</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

<sup>711</sup> if buyer NP is collecting payment, they may also provide the following details - settlement\_basis, settlement\_window, withholding\_amount;

<sup>712</sup> optional

```

    "transaction_id": "3937",
    "amount": "1955.65"
},
"status": "PAID",
"type": "ON-ORDER",
"collected_by": "BAP",
"@ondc/org/buyer_app_finder_fee_type": "percent",
"@ondc/org/buyer_app_finder_fee_amount": "3",
"@ondc/org/settlement_basis": "delivery",
"@ondc/org/settlement_window": "P1D",
"@ondc/org/withholding_amount": "10.00",
"@ondc/org/settlement_details": [
  {
    "settlement_counterparty": "seller-app",
    "settlement_phase": "sale-amount",
    "settlement_type": "upi",
    "upi_address": "gft@oksbi",
    "settlement_bank_account_no": "XXXXXXXXXX",
    "settlement_ifsc_code": "XXXXXXXXXX",
    "beneficiary_name": "xxxxx",
    "bank_name": "xxxx",
    "branch_name": "xxxx"
  }
]
},
"tags": [
  {
    "code": "bpp_terms",
    "list": [
      {
        "code": "max_liability",
        "value": "2"
      },
      {
        "code": "max_liability_cap",
        "value": "10000"
      },
      {
        "code": "mandatory_arbitration",
        "value": "false"
      },
      {
        "code": "court_jurisdiction",
        "value": "Bengaluru"
      },
      {
        "code": "delay_interest",
        "value": "7.50"
      },
      {
        "code": "tax_number",
        "value": "gst_number_of_sellerNP"
      }
    ]
  },
  {
    "code": "bap_terms",
    "list": [
      {
        "code": "accept_bpp_terms",
        "value": "Y"
      }
    ]
  }
]
}

```

<sup>713</sup> transaction id if prepaid payment collected by buyer NP, not required for payment on delivery;

<sup>714</sup> amount collected should match the order value;

<sup>715</sup> **"NOT-PAID" for payment on delivery;**

<sup>716</sup> **"ON-FULFILLMENT" for payment on delivery;**

<sup>717</sup> **"BPP" for payment on delivery;**

<sup>718</sup> indicates from when settlement window starts, enum - "delivery" (from delivery), "shipment" (from shipment), "return\_window\_expiry" (from expiry of return window);

<sup>719</sup> settlement window, as per settlement basis, in ISO8601 Duration format;

<sup>720</sup> withholding amount as % of total order value (valid values between "0.00" and "100.00");

<sup>721</sup> optional (buyer NP provides their details for CoD / seller NP collecting prepaid; otherwise, includes the settlement details provided by seller NP);

<sup>722</sup> **"buyer-app" for payment on delivery;**

<sup>723</sup> buyer NP must accept bpp terms. If not accepted, seller NP can NACK /confirm with error code 50006;

```

},
{
  "code":"static_terms"724,
  "value":"https://github.com/ONDC-Official/NP-Static-Terms/buyerNP_BNP/1.0/tc.pdf"
},
{
  "code":"tax_number"725,
  "value":"gst_number_of_buyerNP"
}
]
1.
"created_at"726:"2023-06-03T09:30:00.000Z",
"updated_at"727:"2023-06-03T09:30:00.000Z"
}
}

```

**N.B.**

1. In case of pre-paid collection by the buyer / seller NP, the payment link is rendered after the buyer NP sends ACK for /on\_init but before calling /confirm;

---

<sup>724</sup> URL for fixed terms of buyer NP. If seller NP doesn't accept, they should NACK /confirm with error code 50005;

<sup>725</sup> **GST no for buyer NP for TDS deduction at seller NP;**

<sup>726</sup> can't be future dated timestamp;

<sup>727</sup> can't be future dated timestamp;

2. For other product (similar to /init above)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "confirm",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M4",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T09:30:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "id": "O1728",
      "state": "Created",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      },
      "items": [
        {
          "id": "I1",
          "fulfillment_id": "F1",
          "quantity": {
            "count": 2
          }
        }
      ],
      "offers729: [
        {
          "id": "BUY2GET3",
        }
      ],
      "billing": {
        "name": "ONDC buyer",
        "address": {
          "name": "my house or door or floor #",
          "building": "my building name or house #",
          "locality": "my street name",
          "city": "Bengaluru",
          "state": "Karnataka",
          "country": "IND",
          "area_code": "560037"
        },
        "phone": "9886098860",
        "email730: "nobody@nomail.com",
        "created_at731: "2023-02-03T09:00:00.000Z",
        "updated_at732: "2023-02-03T09:00:00.000Z"
      },
      "fulfillments": [
        {

```

<sup>728</sup> alphanumeric, up to 32 characters;

<sup>729</sup> optional, only if buyer selects offer code;

<sup>730</sup> optional

<sup>731</sup> same as in /init;

<sup>732</sup> same as in /init;

```

"id":"F1",
"type":"Delivery",
"@ondc/org/TAT":"PT60M733",
"tracking":false,
"end":
{
  "person":
  {
    "name":"name_of_person"
  },
  "contact":
  {
    "email734:"nobody@nomail.com",
    "phone":"9886098860"
  },
  "location":
  {
    "gps":"12.453544,77.928379",
    "address":
    {
      "name":"my house or door or floor #",
      "building":"my building name or house #",
      "locality":"my street name",
      "city":"Bengaluru",
      "state":"Karnataka",
      "country":"IND",
      "area_code":"560037"
    }
  }
},
"vehicle735":
{
  "registration":"3LVJ945"
}
],
"quote":
{
  "price":
  {
    "currency":"INR",
    "value":"424.00"
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count":2
      },
      "title":"Atta",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"340.00"
      },
      "item":
      {
        "price":
        {
          "currency":"INR",
          "value":"170.00"
        }
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Delivery charges",
      "@ondc/org/title_type":"delivery",
      "price":
      {
        "currency":"INR",
        "value":"50.00"
      }
    }
  ]
}

```

<sup>733</sup> same as what is proposed in /on\_select; If TAT is different from what was originally quoted in /on\_select, seller NP can NACK the request with error code 30013;

<sup>734</sup> optional

<sup>735</sup> only for type "Self-Pickup", category "Kerbside";

```

},
{
  "@ondc/org/item_id": "F1",
  "title": "Tax",
  "@ondc/org/title_type": "tax736",
  "price":
  {
    "currency": "INR",
    "value": "9.00"
  },
  "item":
  {
    "tags":
    [
      {
        "code": "quote",
        "list":
        [
          {
            "code": "type",
            "value": "fulfillment"
          }
        ]
      }
    ],
    "@ondc/org/item_id": "F1",
    "title": "Packing charges",
    "@ondc/org/title_type": "packing",
    "price":
    {
      "currency": "INR",
      "value": "25.00"
    }
  },
  {
    "@ondc/org/item_id": "I1",
    "title": "Tax",
    "@ondc/org/title_type": "tax",
    "price":
    {
      "currency": "INR",
      "value": "0.00"
    }
  },
  {
    "@ondc/org/item_id": "I1",
    "title": "Discount",
    "@ondc/org/title_type": "discount",
    "price":
    {
      "currency": "INR",
      "value": "-10.00"
    }
  },
  {
    "@ondc/org/item_id": "F1",
    "title": "Convenience Fee",
    "@ondc/org/title_type": "misc",
    "price":
    {
      "currency": "INR",
      "value": "10.00"
    }
  }
],
"ttl": "P1D"
},
"payment":
{
  "uri737: "https://ondc.transaction.com/payment",
  "tl_method738: "http/get"
}

```

<sup>736</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

<sup>737</sup> optional

<sup>738</sup> optional

```

"params":
{
  "currency":"INR",
  "transaction_id"739:"3937",
  "amount":424.00740
},
"status":"PAID741",
"type":"ON-ORDER742",
"collected_by":"BAP743",
"@ondc/org/buyer_app_finder_fee_type":"percent",
"@ondc/org/buyer_app_finder_fee_amount":"3",
"@ondc/org/settlement_basis":"delivery744",
"@ondc/org/settlement_window":"P1D745",
"@ondc/org/withholding_amount":"10.00746",
"@ondc/org/settlement_details"747:
[
  {
    "settlement_counterparty":"seller-app748",
    "settlement_phase":"sale-amount",
    "settlement_type":"upi",
    "upi_address":"gft@oksbi",
    "settlement_bank_account_no":"XXXXXXXXXXXX",
    "settlement_ifsc_code":"XXXXXXXXXXX",
    "beneficiary_name":"xxxxx",
    "bank_name":"xxxx",
    "branch_name":"xxxx"
  }
],
"tags":
[
  {
    "code":"bpp_terms",
    "list":
    [
      {
        "code":"max_liability",
        "value":"2"
      },
      {
        "code":"max_liability_cap",
        "value":"10000"
      },
      {
        "code":"mandatory_arbitration",
        "value":"false"
      },
      {
        "code":"court_jurisdiction",
        "value":"Bengaluru"
      },
      {
        "code":"delay_interest",
        "value":"7.50"
      },
      {
        "code":"tax_number",
        "value":"gst_number_of_sellerNP"
      }
    ],
    "code":"bap_terms",
    "list":
    [
      {

```

<sup>739</sup> transaction id if prepaid payment collected by buyer NP, not required for payment on delivery;

<sup>740</sup> amount collected should match the order value;

<sup>741</sup> **"NOT-PAID"** for payment on delivery;

<sup>742</sup> **"ON-FULFILLMENT"** for payment on delivery;

<sup>743</sup> **"BPP"** for payment on delivery;

<sup>744</sup> indicates from when settlement window starts, enum - "delivery" (from delivery), "shipment" (from shipment), "return\_window\_expiry" (from expiry of return window);

<sup>745</sup> settlement window, as per settlement basis, in ISO8601 Duration format;

<sup>746</sup> withholding amount as % of total order value (valid values between "0.00" and "100.00");

<sup>747</sup> optional

<sup>748</sup> **"buyer-app"** for payment on delivery;

```

    "code":"accept_bpp_terms749",
    "value":"Y"
},
{
  "code":"static_terms750,
  "value":"https://github.com/ONDC-Official/NP-Static-Terms/buyerNP_BNP/1.0/tc.pdf"
},
{
  "code":"tax_number751,
  "value":"gst_number_of_buyerNP"
}
]
}
"created_at752":"2023-06-03T09:30:00.000Z",
"updated_at753":"2023-06-03T09:30:00.000Z"
}
}

```

<sup>749</sup> buyer NP must accept bpp terms. If not accepted, seller NP can NACK /confirm with error code 50006;

<sup>750</sup> URL for fixed terms of buyer NP. If seller NP doesn't accept, they should NACK /confirm with error code 50005;

<sup>751</sup> **GST no for buyer NP for TDS deduction at seller NP;**

<sup>752</sup> can't be future dated timestamp;

<sup>753</sup> can't be future dated timestamp;

## /on\_confirm

### Scenarios

#### 1. For make-to-order product - Domino's Pizza (response to /confirm above)

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "on_confirm",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M4",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T09:30:30.000Z"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Accepted754",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      },
      "items": [
        {
          "id": "I1",
          "fulfillment_id": "F1",
          "quantity": {
            "count": 1
          },
          "parent_item_id": "DI1",
          "tags": [
            {
              "code": "type",
              "list": [
                {
                  "code": "type",
                  "value": "item"
                }
              ]
            }
          ],
          "id": "C1",
          "fulfillment_id": "F1",
          "quantity": {
            "count": 1
          },
          "parent_item_id": "DI1",
          "tags": [
            {
              "code": "type",
              "list": [
                ...
              ]
            }
          ]
        }
      ]
    }
  }
}
```

<sup>754</sup> enum - "Created", "Accepted", "Cancelled";

```
[
  {
    "code": "type",
    "value": "customization"
  }
],
{
  "code": "parent",
  "list":
  [
    {
      "code": "id",
      "value": "CG1"
    }
  ]
},
{
  "id": "C7",
  "fulfillment_id": "F1",
  "quantity":
  {
    "count": 1
  },
  "parent_item_id": "DI1",
  "tags":
  [
    {
      "code": "type",
      "list":
      [
        {
          "code": "type",
          "value": "customization"
        }
      ],
      "code": "parent",
      "list":
      [
        {
          "code": "id",
          "value": "CG2"
        }
      ]
    }
  ],
  "id": "C14",
  "fulfillment_id": "F1",
  "quantity":
  {
    "count": 1
  },
  "parent_item_id": "DI1",
  "tags":
  [
    {
      "code": "type",
      "list":
      [
        {
          "code": "type",
          "value": "customization"
        }
      ],
      "code": "parent",
      "list":
      [
        {
          "code": "id",
          "value": "CG3"
        }
      ]
    }
  ]
}
```

```
        ],
        {
          "id": "C16",
          "fulfillment_id": "F1",
          "quantity": [
            {
              "count": 1
            }
          ],
          "parent_item_id": "DI1",
          "tags": [
            {
              "code": "type",
              "list": [
                {
                  "code": "type",
                  "value": "customization"
                }
              ]
            },
            {
              "code": "parent",
              "list": [
                {
                  "code": "id",
                  "value": "CG3"
                }
              ]
            }
          ],
          "id": "I1",
          "fulfillment_id": "F1",
          "quantity": [
            {
              "count": 1
            }
          ],
          "parent_item_id": "DI2",
          "tags": [
            {
              "code": "type",
              "list": [
                {
                  "code": "type",
                  "value": "item"
                }
              ]
            }
          ],
          "id": "C2",
          "fulfillment_id": "F1",
          "quantity": [
            {
              "count": 1
            }
          ],
          "parent_item_id": "DI2",
          "tags": [
            {
              "code": "type",
              "list": [
                {
                  "code": "type",
                  "value": "customization"
                }
              ]
            },
            {
              "code": "parent",
              "list": [
                {
                  "code": "id",
                  "value": "CG4"
                }
              ]
            }
          ]
        }
      ]
    }
  ]
}
```

```

    "code":"id",
    "value":"CG1"
  }
]
},
{
  "id":"C7",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
    }
  ],
  "id":"C14",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    }
  ],
  "id":"C15",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [

```

```
{
  "code":"type",
  "list":
  [
    {
      "code":"type",
      "value":"customization"
    }
  ],
  {
    "code":"parent",
    "list":
    [
      {
        "code":"id",
        "value":"CG3"
      }
    ]
  }
],
"billing":
{
  "name":"ONDC buyer",
  "address":
  {
    "name":"my house or door or floor #",
    "building":"my building name or house #",
    "locality":"my street name",
    "city":"Bengaluru",
    "state":"Karnataka",
    "country":"IND",
    "area_code":"560037"
  },
  "email755:"nobody@nomail.com",
  "phone":"9886098860",
  "created_at756":"2023-06-03T09:00:00.000Z",
  "updated_at757":"2023-06-03T09:00:00.000Z"
},
"fulfillments":
[
  {
    "id":"F1",
    "@ondc/org/provider_name":"LSP or Provider Name",
    "state":
    {
      "descriptor":
      {
        "code":"Pending"
      }
    },
    "type":"Delivery",
    "tracking":true758,
    "@ondc/org/TAT":"PT60M759",
    "start":
    {
      "location":
      {
        "id":"L1",
        "descriptor":
        {
          "name":"ABC Store"
        },
        "gps":"12.956399,77.636803",
        "address760":
        {
          "locality":"Jayanagar",
          "city":"Bengaluru",
          "area_code":"560076",
          "state":"KA"
        }
      }
    }
  }
]
```

<sup>755</sup> optional

<sup>756</sup> same as in /init;

<sup>757</sup> same as in /init;

<sup>758</sup> true if tracking available for fulfillment;

<sup>759</sup> **If TAT is different from what was originally quoted in /on\_select, buyer NP can NACK the request with error code 22504;**

<sup>760</sup> store address;

```

    },
    "time761":
    {
      "range":
      {
        "start":"2023-06-03T10:00:00.000Z",
        "end":"2023-06-03T10:30:00.000Z"
      }
    },
    "instructions762":
    {
      "code":"2763",
      "name":"ONDC order",
      "short_desc":"value of PCC764",
      "long_desc":"additional instructions such as register or counter no for self-pickup"
    },
    "contact":
    {
      "phone":"9886098860",
      "email765":"nobody@nomail.com"
    }
  },
  "end":
  {
    "location":
    {
      "gps":"12.453544,77.928379",
      "address":
      {
        "name":"my house or door or floor #",
        "building":"my building name or house #",
        "locality":"my street name",
        "city":"Bengaluru",
        "state":"Karnataka",
        "country":"IND",
        "area_code":"560037"
      }
    },
    "time766":
    {
      "range":
      {
        "start":"2023-06-03T11:00:00.000Z",
        "end":"2023-06-03T11:30:00.000Z"
      }
    },
    "person":
    {
      "name":"name_of_person"
    },
    "contact":
    {
      "phone":"9886098860",
      "email767":"nobody@nomail.com",
    }
  }
],
"quote":
{
  "price":
  {
    "currency":"INR",
    "value":"1955.65"
  },
}

```

<sup>761</sup> optional, pickup slot may be provided if available;

<sup>762</sup> optional

<sup>763</sup> type of pickup confirmation code (PCC), enum - "1" (buyer contact no (for self-pickup)), "2" (merchant order no), "3" (other pickup confirmation code), "4" (OTP); required when order is "Packed";

<sup>764</sup> value of PCC (required when order is "Packed");

contact no - 10 digits;

merchant order no - max 6 alphanumeric;

other pickup confirmation code - max 6 alphanumeric;

OTP - max 6 alphanumeric;

<sup>765</sup> optional

<sup>766</sup> optional, delivery slot may be provided if available;

<sup>767</sup> optional

```

"breakup":
[
  {
    "@ondc/org/item_id":"I1",
    "@ondc/org/item_quantity":
    {
      "count":1
    },
    "title":"Farm House Pizza",
    "@ondc/org/title_type":"item",
    "price":
    {
      "currency":"INR",
      "value":"269.00"
    },
    "item":
    {
      "parent_item_id":"DI1",
      "price":
      {
        "currency":"INR",
        "value":"269.00"
      },
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"item"
            }
          ]
        }
      ]
    },
    "@ondc/org/item_id":"C1",
    "@ondc/org/item_quantity":
    {
      "count":1
    },
    "title":"New Hand Tossed",
    "@ondc/org/title_type":"item",
    "price":
    {
      "currency":"INR",
      "value":"0.00"
    },
    "item":
    {
      "parent_item_id":"DI1",
      "price":
      {
        "currency":"INR",
        "value":"0.00"
      },
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"customization"
            }
          ]
        },
        {
          "code":"parent",
          "list":
          [
            {
              "code":"id",
              "value":"CG1"
            }
          ]
        }
      ]
    }
  }
]

```

```

    ]
},
{
  "@ondc/org/item_id":"C7",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Large",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"450.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "price":
    {
      "currency":"INR",
      "value":"450.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ],
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG2"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"C14",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Grilled Mushrooms",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"80.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "price":
    {
      "currency":"INR",
      "value":"80.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      }
    ]
  }
}
]

```

```

},
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG3"
    }
  ]
},
{
  "@ondc/org/item_id":"C16",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Pepper Barbeque Chicken",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"95.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "price":
    {
      "currency":"INR",
      "value":"95.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ],
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    }
  },
  "@ondc/org/item_id":"I1",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Farm House Pizza",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"269.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "price":
    {
      "currency":"INR",
      "value":"269.00"
    },
  }
}

```

```

"tags":
[ {
  "code":"type",
  "list":
  [
    {
      "code":"type",
      "value":"item"
    }
  ]
},
{
  "@ondc/org/item_id":"C2",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"100% Wheat Thin Crust",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "price":
    {
      "currency":"INR",
      "value":"0.00"
    }
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG1"
        }
      ]
    }
  ],
  "@ondc/org/item_id":"C7",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Large",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"450.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "price":
    {
      "currency":"INR",
      "value":"450.00"
    }
  }
}
]

```

```

},
"tags":
[
{
  "code":"type",
  "list":
  [
    {
      "code":"type",
      "value":"customization"
    }
  ]
},
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG2"
    }
  ]
}
],
"@ondc/org/item_id":"C14",
"@ondc/org/item_quantity":
{
  "count":1
},
"title":"Grilled Mushrooms",
"@ondc/org/title_type":"item",
"price":
{
  "currency":"INR",
  "value":"80.00"
},
"item":
{
  "parent_item_id":"DI2",
  "price":
  {
    "currency":"INR",
    "value":"80.00"
  }
},
"tags":
[
{
  "code":"type",
  "list":
  [
    {
      "code":"type",
      "value":"customization"
    }
  ]
},
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG3"
    }
  ]
}
],
"@ondc/org/item_id":"C15",
"@ondc/org/item_quantity":
{
  "count":1
},
"title":"Fresh Tomato",
"@ondc/org/title_type":"item",
"price":

```

```
{
  "currency":"INR",
  "value":"80.00"
},
"item":
{
  "parent_item_id":"DI2",
  "price":
  {
    "currency":"INR",
    "value":"80.00"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    }
  ],
  "@ondc/org/item_id":"I1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"13.45"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"item"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"C1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
```

```
[
  {
    "code": "type",
    "value": "customization"
  }
],
{
  "code": "parent",
  "list": [
    {
      "code": "id",
      "value": "CG1"
    }
  ]
},
{
  "@ondc/org/item_id": "C7",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price": {
    "currency": "INR",
    "value": "22.50"
  },
  "item": {
    "parent_item_id": "DI1",
    "tags": [
      {
        "code": "type",
        "list": [
          {
            "code": "type",
            "value": "customization"
          }
        ]
      },
      {
        "code": "parent",
        "list": [
          {
            "code": "id",
            "value": "CG2"
          }
        ]
      }
    ],
    "@ondc/org/item_id": "C14",
    "title": "Tax",
    "@ondc/org/title_type": "tax",
    "price": {
      "currency": "INR",
      "value": "4.00"
    },
    "item": {
      "parent_item_id": "DI1",
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "customization"
            }
          ]
        }
      ]
    }
  }
]
```

```
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG3"
    }
  ]
},
{
  "@ondc/org/item_id":"C16",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"4.75"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG1"
          }
        ]
      }
    ]
  },
  {
    "@ondc/org/item_id":"I1",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
    {
      "currency":"INR",
      "value":"13.45"
    },
    "item":
    {
      "parent_item_id":"DI2",
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"item"
            }
          ]
        }
      ]
    },
    {
      "@ondc/org/item_id":"C2",
      "title":"Tax",
      "@ondc/org/title_type":"tax",
      "price":
      {
        "currency":"INR",
        "value":"13.45"
      }
    }
  }
}
```

```

"price":
{
  "currency":"INR",
  "value":"22.50"
},
"item":
{
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG1"
        }
      ]
    }
  ]
},
"@ondc/org/item_id":"C7",
"title":"Tax",
"@ondc/org/title_type":"tax",
"price":
{
  "currency":"INR",
  "value":"22.50"
},
"item":
{
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
    }
  ]
},
"@ondc/org/item_id":"C14",
"title":"Tax",
"@ondc/org/title_type":"tax",
"price":
{
  "currency":"INR",
  "value":"4.00"
},
"item":
{

```

```

"parent_item_id":"DI2",
"tags":
[
  {
    "code":"type",
    "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
  },
  {
    "code":"parent",
    "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
  }
},
{
  "@ondc/org/item_id":"C15",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"4.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "tags":
      [
        {
          "code":"type",
          "list":
            [
              {
                "code":"type",
                "value":"customization"
              }
            ]
        },
        {
          "code":"parent",
          "list":
            [
              {
                "code":"id",
                "value":"CG3"
              }
            ]
        }
      ]
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Delivery charges",
  "@ondc/org/title_type":"delivery",
  "price":
  {
    "currency":"INR",
    "value":"50.00"
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Tax",
  "@ondc/org/title_type":"tax768",

```

<sup>768</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

"price":
{
  "currency":"INR",
  "value":"9.00"
},
"item":
{
  "tags":
  [
    {
      "code":"quote",
      "list":
      [
        {
          "code":"type",
          "value":"fulfillment"
        }
      ]
    }
  ],
  "@ondc/org/item_id":"F1",
  "title":"Packing charges",
  "@ondc/org/title_type":"packing",
  "price":
  {
    "currency":"INR",
    "value":"25.00"
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Convenience Fee",
    "@ondc/org/title_type":"misc",
    "price":
    {
      "currency":"INR",
      "value":"10.00"
    }
  }
],
"ttl":"PT1H"
},
"payment"769:
{
  "uri"770:"https://ondc.transaction.com/payment",
  "tl_method"771:"http/get",
  "params":
  {
    "currency":"INR",
    "transaction_id":3937,
    "amount":1955.65
  },
  "status":PAID,
  "type":ON-ORDER,
  "collected_by":BAP,
  "@ondc/org/buyer_app_finder_fee_type":percent,
  "@ondc/org/buyer_app_finder_fee_amount":3,
  "@ondc/org/settlement_basis":delivery,
  "@ondc/org/settlement_window":P1D,
  "@ondc/org/withholding_amount":10.00,
  "@ondc/org/settlement_details":
  [
    {
      "settlement_counterparty":seller-app,
      "settlement_phase":sale-amount,
      "beneficiary_name":xxxxx,
      "settlement_type":upi,
      "upi_address":gft@oksbi,
      "settlement_bank_account_no":XXXXXXXXXXXX,
      "settlement_ifsc_code":XXXXXXXXXXXX,
      "bank_name":xxxx,
      "branch_name":xxxx
    }
  ]
}

```

<sup>769</sup> same values as in /confirm;

<sup>770</sup> optional

<sup>771</sup> optional

```

    ],
  "cancellation_terms772":
  [
    {
      "fulfillment_state":
      {
        "descriptor":
        {
          "code":"Pending",
          "short_desc":"002"
        }
      },
      "cancellation_fee":
      {
        "amount":
        {
          "currency":"INR",
          "value":"0.00"
        }
      }
    },
    {
      "fulfillment_state":
      {
        "descriptor":
        {
          "code":"Packed",
          "short_desc":"001,003"
        }
      },
      "cancellation_fee":
      {
        "amount":
        {
          "currency":"INR",
          "value":"50.00"
        }
      }
    },
    {
      "fulfillment_state":
      {
        "descriptor":
        {
          "code":"Order-picked-up",
          "short_desc":"001,003"
        }
      },
      "cancellation_fee":
      {
        "amount":
        {
          "currency":"INR",
          "value":"50.00"
        }
      }
    },
    {
      "fulfillment_state":
      {
        "descriptor":
        {
          "code":"Out-for-delivery",
          "short_desc":"009"
        }
      },
      "cancellation_fee":
      {
        "amount":
        {
          "currency":"INR",
          "value":"0.00"
        }
      }
    }
  ]
}

```

<sup>772</sup> If cancellation terms are different from what was quoted earlier, buyer NP can NACK /on\_confirm with error code 22505;

```

"fulfillment_state":
{
  "descriptor":
  {
    "code":"Out-for-delivery",
    "short_desc":"011,012,013,014,015"
  }
},
"cancellation_fee":
{
  "amount":
  {
    "currency":"INR",
    "value":"100.00"
  }
}
],
"tags773":
[
  {
    "code":"bpp_terms",
    "list":
    [
      {
        "code":"max_liability_cap",
        "value":"10000.00"
      },
      {
        "code":"max_liability",
        "value":"2"
      },
      {
        "code":"mandatory_arbitration",
        "value":"false"
      },
      {
        "code":"court_jurisdiction",
        "value":"Bengaluru"
      },
      {
        "code":"delay_interest",
        "value":"7.50"
      },
      {
        "code":"np_type",
        "value":"ISN774"
      },
      {
        "code":"tax_number",
        "value":"gst_number_of_sellerNP"
      },
      {
        "code":"provider_tax_number775",
        "value":"PAN_number_of_provider"
      },
      {
        "code":"accept_bap_terms776",
        "value":"Y"
      }
    ]
  },
  {
    "code":"bap_terms",
    "list":
    [
      {
        "code":"static_terms",
        "value":"https://github.com/ONDC-Official/protocol-network-extension/discussions/79"
      },
      {
        "code":"tax_number",
        "value":"gst_number_of_buyerNP"
      }
    ]
  }
]

```

<sup>773</sup> if terms & conditions different from what was quoted earlier, buyer NP can NACK /on\_confirm with error code 22506;

<sup>774</sup> self-declaration of type of NP, enum - "ISN" (inventory seller), "MSN" (marketplace);

<sup>775</sup> If PAN no of SNP & provider is same, NP is ISN, else MSN;

<sup>776</sup> seller NP must accept proposed bap terms & conditions (if proposed). If not accepted, buyer NP can NACK /on\_confirm with error code 27502;



```
        },
        "created_at": "2023-06-03T09:30:00.000Z",
        "updated_at": "2023-06-03T09:31:30.000Z"
    }
}
```

<sup>777</sup> same as in /confirm;

778 same as in /confirm;  
778 can't be a future date;

2. For other product (response to /confirm above)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_confirm",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M4",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T09:30:30.000Z"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Accepted"779,
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 2
            }
          }
        ],
        "billing": {
          "name": "ONDC buyer",
          "address": {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "email":780 "nobody@nomail.com",
          "phone": "9886098860",
          "created_at":781 "2023-06-03T09:00:00.000Z",
          "updated_at":782 "2023-06-03T09:00:00.000Z"
        },
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "state": {
              "descriptor": {
                "code": "Pending"
              }
            }
          }
        ]
      }
    }
  }
}
```

<sup>779</sup> valid enums here are "Created", "Accepted", "Cancelled";

<sup>780</sup> optional

<sup>781</sup> same as in /init;

<sup>782</sup> same as in /init;

```

},
"type":"Delivery",
"tracking":true783,
"@ondc/org/TAT":"PT60M784",
"start":
{
  "location":
  {
    "id":"L1",
    "descriptor":
    {
      "name":"ABC Store"
    },
    "gps":"12.956399,77.636803",
    "address785":
    {
      "locality":"Jayanagar",
      "city":"Bengaluru",
      "area_code":"560076",
      "state":"KA"
    }
  },
  "time786":
  {
    "range":
    {
      "start":"2023-06-03T10:00:00.000Z",
      "end":"2023-06-03T10:30:00.000Z"
    }
  },
  "instructions787":
  {
    "code":"2788",
    "name":"ONDC order",
    "short_desc":"value of PCC789",
    "long_desc":"additional instructions such as register or counter no for self-pickup"
  },
  "contact":
  {
    "phone":"9886098860",
    "email790":"nobody@nomail.com"
  }
},
"end":
{
  "location":
  {
    "gps":"12.453544,77.928379",
    "address":
    {
      "name":"my house or door #",
      "building":"my building name or house #",
      "locality":"my street name",
      "city":"Bengaluru",
      "state":"Karnataka",
      "country":"IND",
      "area_code":"560037"
    }
  },
  "time791":
  {
    "range":
    {

```

<sup>783</sup> true if tracking available for fulfillment;

<sup>784</sup> if TAT is different from what was originally quoted in /on\_select, buyer NP can NACK the request with error code 22504;

<sup>785</sup> store address;

<sup>786</sup> optional, pickup slot may be provided if available;

<sup>787</sup> optional

<sup>788</sup> type of pickup confirmation code (PCC), enum - "1" (buyer contact no (for self-pickup)), "2" (merchant order no), "3" (other pickup confirmation code), "4" (OTP); required when order is "Packed";

<sup>789</sup> value of PCC (required when order is "Packed"):

contact no - 10 digits;

merchant order no - max 6 alphanumeric;

other pickup confirmation code - max 6 alphanumeric;

OTP - max 6 alphanumeric;

<sup>790</sup> optional

<sup>791</sup> optional, delivery slot may be provided if available;

```

    "start":"2023-06-03T11:00:00.000Z",
    "end":"2023-06-03T11:30:00.000Z"
  },
  "person":
  {
    "name":"name_of_person"
  },
  "contact":
  {
    "phone":"9886098860",
    "email792:"nobody@nomail.com",
  }
}
],
"quote":
{
  "price":
  {
    "currency":"INR",
    "value":"424.00"
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count":2
      },
      "title":"Atta",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"340.00"
      },
      "item":
      {
        "price":
        {
          "currency":"INR",
          "value":"170.00"
        }
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Delivery charges",
      "@ondc/org/title_type":"delivery",
      "price":
      {
        "currency":"INR",
        "value":"50.00"
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Tax",
      "@ondc/org/title_type":"tax793",
      "price":
      {
        "currency":"INR",
        "value":"9.00"
      },
      "item":
      {
        "tags":
        [
          {
            "code":"quote",
            "list":
            [
              {
                "code":"type",
              }
            ]
          }
        ]
      }
    }
  ]
}

```

<sup>792</sup> optional

<sup>793</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

    "value":"fulfillment"
  }
}
{
  "@ondc/org/item_id":"F1",
  "title":"Packing charges",
  "@ondc/org/title_type":"packing",
  "price":
  {
    "currency":"INR",
    "value":"25.00"
  }
},
{
  "@ondc/org/item_id":"I1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  }
},
{
  "@ondc/org/item_id":"I1",
  "title":"Discount",
  "@ondc/org/title_type":"discount",
  "price":
  {
    "currency":"INR",
    "value":"-10.00"
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Convenience Fee",
  "@ondc/org/title_type":"misc",
  "price":
  {
    "currency":"INR",
    "value": "10.00"
  }
}
],
"ttl":"P1D"
},
"payment"794:
{
  "uri795":"https://ondc.transaction.com/payment",
  "tl_method796":"http/get",
  "params":
  {
    "currency":"INR",
    "transaction_id":"3937",
    "amount":"415.00"
  },
  "status":"PAID",
  "type":"ON-ORDER",
  "collected_by":"BAP",
  "@ondc/org/buyer_app_finder_fee_type":"percent",
  "@ondc/org/buyer_app_finder_fee_amount":"3",
  "@ondc/org/settlement_basis":"delivery",
  "@ondc/org/settlement_window":"P1D",
  "@ondc/org/withholding_amount":"10.00",
  "@ondc/org/settlement_details":
  [
    {
      "settlement_counterparty":"seller-app",
      "settlement_phase":"sale-amount",
      "beneficiary_name":"xxxxx",
      "settlement_type":"upi",
      "upi_address":"gft@oksbi",
    }
  ]
}

```

<sup>794</sup> same values as in /confirm;

<sup>795</sup> optional

<sup>796</sup> optional

```

    "settlement_bank_account_no":"XXXXXXXXXXXX",
    "settlement_ifsc_code":"XXXXXXXXXX",
    "bank_name":"xxxx",
    "branch_name":"xxxx"
  }
]
},
cancellation_terms797:
[
  {
    "fulfillment_state":
    {
      "descriptor":
      {
        "code":"Pending",
        "short_desc":"002"
      }
    },
    "cancellation_fee":
    {
      "amount":
      {
        "currency":"INR",
        "value":"0.00"
      }
    }
  },
  {
    "fulfillment_state":
    {
      "descriptor":
      {
        "code":"Packed",
        "short_desc":"001,003"
      }
    },
    "cancellation_fee":
    {
      "amount":
      {
        "currency":"INR",
        "value":"50.00"
      }
    }
  },
  {
    "fulfillment_state":
    {
      "descriptor":
      {
        "code":"Order-picked-up",
        "short_desc":"001,003"
      }
    },
    "cancellation_fee":
    {
      "amount":
      {
        "currency":"INR",
        "value":"50.00"
      }
    }
  },
  {
    "fulfillment_state":
    {
      "descriptor":
      {
        "code":"Out-for-delivery",
        "short_desc":"009"
      }
    },
    "cancellation_fee":
    {
      "amount":
      {
        "currency":"INR",
        "value":"50.00"
      }
    }
  }
]

```

<sup>797</sup> If cancellation terms are different from what was quoted earlier, buyer NP can NACK /on\_confirm with error code 22505;

```

        "value":"0.00"
      }
    },
    "fulfillment_state":
    {
      "descriptor":
      {
        "code":"Out-for-delivery",
        "short_desc":"011,012,013,014,015"
      }
    },
    "cancellation_fee":
    {
      "amount":
      {
        "currency":"INR",
        "value":"100.00"
      }
    }
  ],
  "tags798*":
  [
    {
      "code":"bpp_terms",
      "list":
      [
        {
          "code":"max_liability_cap",
          "value":"10000.00"
        },
        {
          "code":"max_liability",
          "value":"2"
        },
        {
          "code":"mandatory_arbitration",
          "value":"false"
        },
        {
          "code":"court_jurisdiction",
          "value":"Bengaluru"
        },
        {
          "code":"delay_interest",
          "value":"7.50"
        },
        {
          "code":"np_type",
          "value":"MSN799"
        },
        {
          "code":"tax_number",
          "value":"gst_number_of_sellerNP"
        },
        {
          "code":"provider_tax_number800",
          "value":"PAN_number_of_provider"
        },
        {
          "code":"accept_bap_terms801",
          "value":"Y"
        }
      ]
    },
    {
      "code":"bap_terms",
      "list":
      [
        {
          "code":"static_terms",

```

<sup>798</sup> If terms & conditions different from what was quoted earlier, buyer NP can NACK /on\_confirm with error code 22506;

<sup>799</sup> self-declaration of type of NP, enum - "ISN" (inventory seller), "MSN" (marketplace);

<sup>800</sup> If PAN no of SNP & provider is same, NP is ISN, else MSN;

<sup>801</sup> seller NP must accept proposed bap terms & conditions (if proposed). If not accepted, buyer NP can NACK /on\_confirm with error code 27502;

```
        "value":"https://github.com/ONDC-Official/protocol-network-extension/discussions/79"
    },
    {
        "code":"tax_number",
        "value":"gst_number_of_buyerNP"
    }
]
,"created_at"802:"2023-06-03T09:30:00.000Z",
"updated_at"803:"2023-06-03T09:31:30.000Z"
}
}
```

---

<sup>802</sup> same as in /confirm;  
<sup>803</sup> can't be a future date;

### Rules for order confirmation

1. /confirm and /on\_confirm calls should be idempotent;
2. Buyer NP will create the order id which will be unique across the network. In response to /confirm from buyer NP, seller NP sends /on\_confirm with the same order\_id;
3. Buyer NP (BNP) sends /confirm, Seller NP (SNP) validates<sup>804</sup> order:
  - a. if validation successful, SNP responds with ACK:
    - i. SNP creates order (preferably with internal state to indicate order is being processed), but shouldn't forward to merchant for processing & fulfillment;
  - b. if validation not successful, SNP responds with NACK with error code **31002 (order validation failure)**:
    - i. after BNP receives NACK, they should cancel the order with [reason code 999 \(order cancelled because of order confirmation failure\)](#);
    - ii. if this order is passed in subsequent API calls (/confirm, /status, /cancel, /update, etc.), SNP returns NACK with error code 30018 (order not found);
  - c. SNP may also respond with NACK due to other internal errors (http 504, retriable error code **31001**):
    - i. BNP should retry<sup>805</sup> /confirm. If after the retry interval, BNP doesn't receive ACK/NACK, they should cancel the order with reason code **999**;
    - d. if BNP doesn't receive ACK/NACK or /on\_confirm, they should retry /confirm (same as above). If within the retry interval, BNP doesn't receive ACK/NACK or /on\_confirm, they should cancel the order with reason code **999**;
4. SNP sends /on\_confirm, BNP validates<sup>806</sup> order:
  - a. if validation successful, BNP responds with ACK:
    - i. **SNP forwards order to merchant for processing & fulfillment**;
  - b. if validation not successful, BNP responds with NACK with error code **23002 (order validation failure)**:
    - i. after SNP receives NACK, they should cancel the order with reason code **998 (order cancelled because of order confirmation failure)** & push the status change to BNP;
    - ii. if this order (with cancellation state & reason code) is passed in subsequent API calls (/on\_confirm, /on\_status, /on\_cancel, /on\_update), BNP responds with ACK;
  - c. BNP may also NACK due to internal errors (http 504/503, retriable error code **23001**):
    - i. SNP should retry<sup>807</sup> /on\_confirm. If after the retry interval, SNP doesn't receive ACK/NACK, they should cancel the order with reason code **998**;
    - ii. **If order is passed in subsequent API calls within the retry window (/status, /track, /cancel, /update), SNP responds with current order state along with error code 31003 to indicate order processing in progress**;
    - iii. If order is passed in subsequent API calls after cancellation (/status, /cancel, /update), SNP sends response with order state as cancelled;
  - d. If SNP doesn't receive ACK/NACK for /on\_confirm, they should retry /on\_confirm. If after the retry interval, SNP doesn't receive ACK/NACK, they should cancel the order with reason code **998**;

<sup>804</sup> validation includes - order object (items / quantity / quote / fulfillment) same as in /on\_init;

<sup>805</sup> retry will have a cap for no of attempts over specific duration to be decided by BNP;

<sup>806</sup> validation includes - order object (id / items / quantity / quote) same as in /confirm;

<sup>807</sup> retry will have a cap for no of attempts over specific duration to be decided by SNP;

## /update & /on\_update

### Scenario 1 - Part cancel by merchant

- Cancel of item(s) can only be initiated if fulfillment state is "Pending";
- A separate fulfillment is created for the cancellation and the item & quantity assigned to it. This fulfillment also has associated details such as cancellation reason code, quote trail;
- Updated quote is provided by the seller NP at the refund trigger point ("Liquidated", "Return\_Picked", "Cancelled") and the buyer NP can calculate the amount of refund from the quote trail;

/on\_update (merchant cancels customized product DI1, qty 1)

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "on_update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M5",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T10:30:30.000Z"
  },
  "message": {
    "order808: {
      "id": "O1",
      "state": "Accepted",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "C1809",
            "quantity": {
              "count": 1810
            },
            "parent_item_id": "DI1",
            "tags": [
              {
                "code": "type",
                "list": [
                  {
                    "code": "type",
                    "value": "item"
                  }
                ]
              }
            ],
            "id": "C1",
            "status": "Accepted"
          }
        ],
        "status": "Accepted"
      }
    }
  }
}
```

<sup>808</sup> shows the current state of order with the new fulfillment for part cancel by merchant;

<sup>809</sup> new fulfillment id for cancel request, must be unique for each cancellation / cancellation request;

<sup>810</sup> quantity for which cancel initiated, i.e. for this specific cancellation identified by unique fulfillment id "C1";

```

"fulfillment_id":"C1",
"quantity":
{
  "count":1
},
"parent_item_id": "DI1",
"tags":
[
  [
    {
      "code": "type",
      "list":
        [
          {
            "code": "type",
            "value": "customization"
          }
        ]
    },
    {
      "code": "parent",
      "list":
        [
          {
            "code": "id",
            "value": "CG1"
          }
        ]
    }
  ],
  {
    "id": "C7",
    "fulfillment_id": "C1",
    "quantity":
    {
      "count":1
    },
    "parent_item_id": "DI1",
    "tags":
    [
      [
        {
          "code": "type",
          "list":
            [
              {
                "code": "type",
                "value": "customization"
              }
            ]
        },
        {
          "code": "parent",
          "list":
            [
              {
                "code": "id",
                "value": "CG2"
              }
            ]
        }
      ],
      {
        "id": "C14",
        "fulfillment_id": "C1",
        "quantity":
        {
          "count":1
        },
        "parent_item_id": "DI1",
        "tags":
        [
          [
            {
              "code": "type",
              "list":
                [
                  {
                    "code": "type",
                    "value": "customization"
                  }
                ]
            }
          ]
        ]
      }
    ]
  }
]

```

```

},
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG3"
    }
  ]
},
{
  "id":"C16",
  "fulfillment_id":"C1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI1",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    }
  }
},
{
  "id":"I1",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"item"
        }
      ]
    }
  }
},
{
  "id":"C2",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        [

```

```
{
  "code":"type",
  "value":"customization"
}
],
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG1"
    }
  ]
},
{
  "id":"C7",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
    }
  ],
  "id":"C14",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    }
  ]
}
```

```

},
{
  "id":"C15",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  },
  "billing":
  {
    "name":"ONDC buyer",
    "address":
    {
      "name":"my house or door or floor #",
      "building":"my building name or house #",
      "locality":"my street name",
      "city":"Bengaluru",
      "state":"Karnataka",
      "country":"IND",
      "area_code":"560037"
    },
    "email":"nobody@nomail.com",
    "phone":"9886098860",
    "created_at":"2023-06-03T09:00:00.000Z",
    "updated_at":"2023-06-03T09:00:00.000Z"
  },
  "fulfillments":
  [
    {
      "id":"F1",
      "@ondc/org/provider_name":"LSP or Provider Name",
      "type":"Delivery",
      "tracking":true,
      "@ondc/org/TAT":"PT60M",
      "state":
      {
        "descriptor":
        {
          "code":"Pending"
        }
      },
      "start":
      {
        "location":
        {
          "id":"L1",
          "descriptor":
          {
            "name":"ABC Store"
          },
          "gps":"12.956399,77.636803",
          "address":
          {
            "locality":"Jayanagar",
            "city":"Bengaluru",
            "pincode":560037
          }
        }
      }
    }
  ]
}

```

```

    "area_code":"560076",
    "state":"KA"
  },
  "time":
  {
    "range":
    {
      "start":"2023-06-03T10:00:00.000Z",
      "end":"2023-06-03T10:30:00.000Z"
    }
  },
  "contact":
  {
    "phone":"9886098860",
    "email":"nobody@nomail.com"
  }
},
"end":
{
  "location":
  {
    "gps":"12.453544,77.928379",
    "address":
    {
      "name":"my house or door or floor #",
      "building":"my building name or house #",
      "locality":"my street name",
      "city":"Bengaluru",
      "state":"Karnataka",
      "country":"IND",
      "area_code":"560037"
    }
  },
  "time":
  {
    "range":
    {
      "start":"2023-06-03T11:00:00.000Z",
      "end":"2023-06-03T11:30:00.000Z"
    }
  },
  "person":
  {
    "name":"name_of_person"
  },
  "contact":
  {
    "phone":"9886098860",
    "email":"nobody@nomail.com"
  }
},
{
  "id":"C1",
  "type":"Cancel",
  "state":
  {
    "descriptor":
    {
      "code":"Cancelled"
    }
  },
  "tags":
  [
    {
      "code":"cancel_request",
      "list":
      [
        {
          "code":"reason_id",
          "value":"002811"811
        },
        {
          "code":"initiated_by",
          "value":"sellerNP.com812"812
        }
      ]
    }
  ]
}

```

<sup>811</sup> valid reason code from [here](#) for part cancel;

<sup>812</sup> subscriber id of source NP from which request initiated, details of this id can be verified using registry lookup;

```

    ],
  },
  "code":"quote_trail",
  "list":
  [
    {
      "code":"type813",
      "value":"item"
    },
    {
      "code":"subtype814",
      "value":"item"
    },
    {
      "code":"id815",
      "value":"I1"
    },
    {
      "code":"currency",
      "value":INR
    },
    {
      "code":"value816",
      "value":-269.00"
    }
  ],
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value":item
      },
      {
        "code":"subtype",
        "value":customization
      },
      {
        "code":id,
        "value":C1
      },
      {
        "code":currency,
        "value":INR
      },
      {
        "code":value817,
        "value":-0.00"
      }
    ],
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value":item
      },
      {
        "code":"subtype",
        "value":customization
      },
      {
        "code":id,
        "value":C7
      },
      {
        "code":currency,
        "value":INR
      }
    ],
  }
]

```

<sup>813</sup> matches order.quote.breakup[].title\_type;

<sup>814</sup> matches item type, i.e. "item", "customization";

<sup>815</sup> id for title\_type e.g. item id for "item" / "tax", fulfillment id for "delivery" / "packing" / "misc";

<sup>816</sup> value by which order quote for title\_type is adjusted, will always be negative;

<sup>817</sup> value by which order quote for title\_type is adjusted, will always be negative;

```

    {
      "code":"value",
      "value":"-450.00"
    }
  ],
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value":"item"
      },
      {
        "code":"subtype",
        "value":"customization"
      },
      {
        "code":"id",
        "value":"C14"
      },
      {
        "code":"currency",
        "value":"INR"
      },
      {
        "code":"value",
        "value":"-80.00"
      }
    ]
  },
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value":"item"
      },
      {
        "code":"subtype",
        "value":"customization"
      },
      {
        "code":"id",
        "value":"C16"
      },
      {
        "code":"currency",
        "value":"INR"
      },
      {
        "code":"value",
        "value":"-95.00"
      }
    ]
  },
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value":"tax"
      },
      {
        "code":"subtype818",
        "value":"item"
      },
      {
        "code":"id",
        "value":"I1"
      },
      {
        "code":"currency",
        "value":"INR"
      },
    ]
  }
}

```

---

<sup>818</sup> matches item type, i.e. "item", "customization";

```

    {
      "code":"value",
      "value":"-13.45"
    }
  ],
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value":"tax"
      },
      {
        "code":"subtype",
        "value":"customization"
      },
      {
        "code":"id",
        "value":C1"
      },
      {
        "code":"currency",
        "value":INR"
      },
      {
        "code":"value",
        "value":"-0.00"
      }
    ]
  },
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value":"tax"
      },
      {
        "code":"subtype",
        "value":"customization"
      },
      {
        "code":"id",
        "value":C7"
      },
      {
        "code":"currency",
        "value":INR"
      },
      {
        "code":"value",
        "value":"-22.50"
      }
    ]
  },
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value":"tax"
      },
      {
        "code":"subtype",
        "value":"customization"
      },
      {
        "code":"id",
        "value":C14"
      },
      {
        "code":"currency",
        "value":INR"
      },
      {
        "code":"value",
        "value":"-4.00"
      }
    ]
  }
]

```

```

        }
    },
    {
      "code":"quote_trail",
      "list":
      [
        {
          "code":"type",
          "value":"tax"
        },
        {
          "code":"subtype",
          "value":"customization"
        },
        {
          "code":"id",
          "value":"C16"
        },
        {
          "code":"currency",
          "value":"INR"
        },
        {
          "code":"value",
          "value":-4.75
        }
      ]
    }
  ],
  "quote":
  {
    "price":
    {
      "currency":"INR",
      "value":1016.95
    },
    "breakup":
    [
      {
        "@ondc/org/item_id":"I1",
        "@ondc/org/item_quantity":
        {
          "count":0
        },
        "title":"Farm House Pizza",
        "@ondc/org/title_type":"item",
        "price":
        {
          "currency":"INR",
          "value":0.00
        },
        "item":
        {
          "parent_item_id":"DI1",
          "price":
          {
            "currency":"INR",
            "value":269.00
          }
        },
        "tags":
        [
          {
            "code":"type",
            "list":
            [
              {
                "code":"type",
                "value":"item"
              }
            ]
          }
        ],
        "@ondc/org/item_id":"C1",
        "@ondc/org/item_quantity":
        {

```

```

    "count":0
},
"title":"New Hand Tossed",
"@ondc/org/title_type":"item",
"price":
{
  "currency":"INR",
  "value":"0.00"
},
"item":
{
  "parent_item_id":"DI1",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG1"
        }
      ]
    }
  ]
},
"@ondc/org/item_id":"C7",
"@ondc/org/item_quantity":
{
  "count":0
},
"title":"Large",
"@ondc/org/title_type":"item",
"price":
{
  "currency":"INR",
  "value":"0.00"
},
"item":
{
  "parent_item_id":"DI1",
  "price":
  {
    "currency":"INR",
    "value":"450.00"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
        }
      ]
    }
  ]
}

```

```

    "value":"CG2"
  }
}
},
"@ondc/org/item_id":"C14",
"@ondc/org/item_quantity":
{
  "count":0
},
"title":"Grilled Mushrooms",
"@ondc/org/title_type":"item",
"price":
{
  "currency":"INR",
  "value":"0.00"
},
"item":
{
  "parent_item_id":"DI1",
  "price":
  {
    "currency":"INR",
    "value":"80.00"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    }
  }
},
"@ondc/org/item_id":"C16",
"@ondc/org/item_quantity":
{
  "count":0
},
"title":"Pepper Barbeque Chicken",
"@ondc/org/title_type":"item",
"price":
{
  "currency":"INR",
  "value":"0.00"
},
"item":
{
  "parent_item_id":"DI1",
  "price":
  {
    "currency":"INR",
    "value":"95.00"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    }
  ]
}
}

```

```

    "code":"type",
    "value":"customization"
  }
},
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG3"
    }
  ]
},
{
  "@ondc/org/item_id":"I1",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Farm House Pizza",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"269.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "price":
    {
      "currency":"INR",
      "value":"269.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"item"
          }
        ]
      }
    }
  },
  "@ondc/org/item_id":"C2",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"100% Wheat Thin Crust",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "price":
    {
      "currency":"INR",
      "value":"0.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
      
```

```
{
  "code":"type",
  "value":"customization"
}
],
},
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG1"
    }
  ]
},
{
  "@ondc/org/item_id":"C7",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Large",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"450.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "price":
    {
      "currency":"INR",
      "value":"450.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG2"
          }
        ]
      }
    ],
    "@ondc/org/item_id":"C14",
    "@ondc/org/item_quantity":
    {
      "count":1
    },
    "title":"Grilled Mushrooms",
    "@ondc/org/title_type":"item",
    "price":
    {
      "currency":"INR",
      "value":"80.00"
    },
    "item":
    {
      "parent_item_id":"DI2",
      "price":
      {
        "currency":"INR",
        "value":"80.00"
      }
    }
  }
}
```

```

"price":
{
  "currency":"INR",
  "value":"80.00"
},
"tags":
[
  {
    "code":"type",
    "list":
    [
      {
        "code":"type",
        "value":"customization"
      }
    ],
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    }
  },
  {
    "@ondc/org/item_id":"C15",
    "@ondc/org/item_quantity":
    {
      "count":1
    },
    "title":"Fresh Tomato",
    "@ondc/org/title_type":"item",
    "price":
    {
      "currency":"INR",
      "value":"80.00"
    },
    "item":
    {
      "parent_item_id":"DI2",
      "price":
      {
        "currency":"INR",
        "value":"80.00"
      }
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  },
  {
    "@ondc/org/item_id":"I1",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
  }
]

```

```
{
  "currency":"INR",
  "value":"0.0"
},
"item":
{
  "parent_item_id":"DI1",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"item"
        }
      ]
    }
  ],
  "@ondc/org/item_id":"C1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":0.0
  },
  "item":
  {
    "parent_item_id":"DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":CG1
          }
        ]
      }
    ]
  }
},
"@ondc/org/item_id":"C7",
"title":"Tax",
"@ondc/org/title_type":"tax",
"price":
{
  "currency":"INR",
  "value":0.0
},
"item":
{
  "parent_item_id":"DI1",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    }
  ]
}
```

```

    ],
  },
  {
    "code":"parent",
    "list":
    [
      {
        "code":"id",
        "value":"CG2"
      }
    ]
  },
  {
    "@ondc/org/item_id":"C14",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
    {
      "currency":"INR",
      "value":"0.0"
    },
    "item":
    {
      "parent_item_id":"DI1",
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"customization"
            }
          ]
        },
        {
          "code":"parent",
          "list":
          [
            {
              "code":"id",
              "value":"CG3"
            }
          ]
        }
      ]
    }
  },
  {
    "@ondc/org/item_id":"C16",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
    {
      "currency":"INR",
      "value":"0.0"
    },
    "item":
    {
      "parent_item_id":"DI1",
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"customization"
            }
          ]
        },
        {
          "code":"parent",
          "list":
          [
            {
              "code":"id",
              "value":"
            }
          ]
        }
      ]
    }
  }
]
}

```

```

    "code":"id",
    "value":"CG1"
  }
}
},
{
  "@ondc/org/item_id":"I1",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"13.45"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"item"
          }
        ]
      }
    ]
  },
  {
    "@ondc/org/item_id":"C2",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
    {
      "currency":"INR",
      "value":"22.50"
    },
    "item":
    {
      "parent_item_id":"DI2",
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"customization"
            }
          ]
        },
        {
          "code":"parent",
          "list":
          [
            {
              "code":"id",
              "value":"CG1"
            }
          ]
        }
      ]
    },
    {
      "@ondc/org/item_id":"C7",
      "title":"Tax",
      "@ondc/org/title_type":"tax",
      "price":
      {
        "currency":"INR",
        "value":"22.50"
      },
    }
  }
}

```

```

"item":
{
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
    }
  ],
  "@ondc/org/item_id":"C14",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"4.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ],
    "@ondc/org/item_id":"C15",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
    {
      "currency":"INR",
      "value":"4.00"
    },
    "item":
    {
      "parent_item_id":"DI2",
      "tags":
      [
        {
          "code":"type",
        }
      ]
    }
  }
}

```

```

"list":
[
  {
    "code":"type",
    "value":"customization"
  }
],
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG3"
    }
  ]
},
{
  "@ondc/org/item_id":"F1",
  "title":"Delivery charges",
  "@ondc/org/title_type":"delivery",
  "price":
  {
    "currency":"INR",
    "value":"50.00"
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Tax",
  "@ondc/org/title_type":"tax819",
  "price":
  {
    "currency":"INR",
    "value":"9.00"
  },
  "item":
  {
    "tags":
    [
      {
        "code":"quote",
        "list":
        [
          {
            "code":"type",
            "value":"fulfillment"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Packing charges",
  "@ondc/org/title_type":"packing",
  "price":
  {
    "currency":"INR",
    "value":"25.00"
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Convenience Fee",
  "@ondc/org/title_type":"misc",
  "price":
  {
    "currency":"INR",
    "value":"10.00"
  }
}
  
```

<sup>819</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

    ],
    "ttl":"PT1H"
  },
  "payment820:
  {
    "uri":"https://ondc.transaction.com/payment",
    "params":
    {
      "currency":"INR",
      "transaction_id":"3937",
      "amount":"1955.65"
    },
    "status":"PAID",
    "type":"ON-ORDER",
    "collected_by":"BAP",
    "@ondc/org/buyer_app_finder_fee_type":"percent",
    "@ondc/org/buyer_app_finder_fee_amount":"3",
    "@ondc/org/settlement_basis":"delivery",
    "@ondc/org/settlement_window":"P1D",
    "@ondc/org/withholding_amount":"10.00",
    "@ondc/org/settlement_details":
    [
      {
        "settlement_counterparty":"seller-app",
        "settlement_phase":"sale-amount",
        "beneficiary_name":"xxxxx",
        "settlement_type":"upi",
        "upi_address":"gft@oksbi",
        "settlement_bank_account_no":"XXXXXXXXXXXX",
        "settlement_ifsc_code":"XXXXXXXXXX",
        "bank_name":"xxxx",
        "branch_name":"xxxx"
      }
    ]
  },
  "created_at":"2023-06-03T09:30:00.000Z",
  "updated_at":"2023-06-03T10:31:30.000Z"
}
}

```

**N.B.**

1. A dynamic item comprises a base item and one or more customizations. The quantity of a dynamic item will be the same as the corresponding quantity for the base item and the quantity for customizations will be defined as per configuration of the customization group, for the customization. For part cancel of dynamic item for specific quantity, the base item and customizations should be cancelled in the same proportion and the quote updated accordingly:

e.g. for an order O1:

dynamic item (DI1) includes (item type, quantity):  
 I1 - 3  
 C1 - 3  
 C2 - 3

=> DI1 has qty 3 and each DI1 includes:

I1 - 1  
 C1 - 1  
 C2 - 1

(part cancel for 1 qty of DI1 should include the above and the quote / quote trail should be updated accordingly)

2. For customized product, seller NP needs to cancel the dynamic item and set the quantity & total price to 0 for all item & customization components;
3. Individual item or customization components can't be part-cancelled;
4. If either of 1 or 2 is not followed, buyer NP should NACK the /on\_update with error code 22508;
5. For merchant part-cancel, the buyer NP may send NACK with error code 22501 (if the buyer does not accept part fill for the order). In this case, the seller NP will be required to rollback this part cancel request and cancel the full order;

---

<sup>820</sup> optional keys here as defined in /confirm;

/on\_update (merchant cancels non-customized product I1, qty 1)

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "on_update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M5",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T10:30:30.000Z"
  },
  "message": {
    "order821: {
      "id": "O1",
      "state": "Accepted",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1822",
            "quantity": {
              "count": 1823
            }
          },
          {
            "id": "I1",
            "fulfillment_id": "C1824",
            "quantity": {
              "count": 1825
            }
          }
        ],
        "billing": {
          "name": "ONDC buyer",
          "address": {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "email": "nobody@nomail.com",
          "phone": "9886098860",
          "created_at": "2023-06-03T09:00:00.000Z",
          "updated_at": "2023-06-03T09:00:00.000Z"
        },
        "fulfillments": [
      ]
    }
  }
}
```

<sup>821</sup> shows the current state of order with the new fulfillment for part cancel by merchant;

<sup>822</sup> forward shipment fulfillment;

<sup>823</sup> quantity changed from 2 to 1 as seller NP initiated cancel for 1 quantity;

<sup>824</sup> new fulfillment id for cancel request, must be unique for each cancellation / cancellation request;

<sup>825</sup> quantity for which cancel initiated, i.e. for this specific cancellation identified by unique fulfillment id "C1";

```
{
  "id": "F1",
  "@ondc/org/provider_name": "LSP or Provider Name",
  "type": "Delivery",
  "tracking": true,
  "@ondc/org/TAT": "PT60M",
  "state": {
    "descriptor": {
      "code": "Pending"
    }
  },
  "start": {
    "location": {
      "id": "L1",
      "descriptor": {
        "name": "ABC Store"
      },
      "gps": "12.956399,77.636803",
      "address": {
        "locality": "Jayanagar",
        "city": "Bengaluru",
        "area_code": "560076",
        "state": "KA"
      }
    },
    "time": {
      "range": {
        "start": "2023-06-03T10:00:00.000Z",
        "end": "2023-06-03T10:30:00.000Z"
      }
    }
  },
  "contact": {
    "phone": "9886098860",
    "email": "nobody@nomail.com"
  }
},
"end": {
  "location": {
    "gps": "12.453544,77.928379",
    "address": {
      "name": "my house or door or floor #",
      "building": "my building name or house #",
      "locality": "my street name",
      "city": "Bengaluru",
      "state": "Karnataka",
      "country": "IND",
      "area_code": "560037"
    }
  },
  "time": {
    "range": {
      "start": "2023-06-03T11:00:00.000Z",
      "end": "2023-06-03T11:30:00.000Z"
    }
  }
},
"person": {
  "name": "name_of_person"
},
"contact": {
  "phone": "9886098860",
  "email": "nobody@nomail.com"
}
}
}
```

```

"id":"C1",
"type":"Cancel",
"state":
{
  "descriptor":
  {
    "code":"Cancelled"
  }
},
"tags":
[
  {
    "code":"cancel_request",
    "list":
    [
      {
        "code":"reason_id",826
        "value":"002"
      },
      {
        "code":"initiated_by",827
        "value":"sellerNP.com"
      }
    ]
  },
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type828,
        "value":"item"
      },
      {
        "code":"id829,
        "value":"I1"
      },
      {
        "code":"currency",
        "value":"INR"
      },
      {
        "code":"value830,
        "value":"-170.00"
      }
    ]
  },
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value":"tax"
      },
      {
        "code":"id",
        "value":"I1"
      },
      {
        "code":"currency",
        "value":"INR"
      },
      {
        "code":"value",
        "value":"0.00"
      }
    ]
  }
],
"quote":
{

```

<sup>826</sup> valid reason code from [here](#) for part cancel;

<sup>827</sup> subscriber id of source NP from which request initiated;

<sup>828</sup> matches order.quote.breakup[].title\_type;

<sup>829</sup> id for title\_type e.g. item id for "item" / "tax", fulfillment id for "delivery" / "packing" / "misc";

<sup>830</sup> value by which order quote for title\_type is adjusted, will always be negative;

```

"price":
{
  "currency":"INR",
  "value":"254.00831"
},
"breakup":
[
  {
    "@ondc/org/item_id":"I1",
    "@ondc/org/item_quantity":
    {
      "count": 1832
    },
    "title":"Atta",
    "@ondc/org/title_type":"item",
    "price":
    {
      "currency":"INR",
      "value":170.00
    },
    "item":
    {
      "price":
      {
        "currency":"INR",
        "value":170.00
      }
    }
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Delivery charges",
    "@ondc/org/title_type":"delivery",
    "price":
    {
      "currency":"INR",
      "value":50.00
    }
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Tax",
    "@ondc/org/title_type":"tax833",
    "price":
    {
      "currency":"INR",
      "value":9.00
    },
    "item":
    {
      "tags":
      [
        {
          "code":"quote",
          "list":
          [
            {
              "code":"type",
              "value":"fulfillment"
            }
          ]
        }
      ]
    }
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Packing charges",
    "@ondc/org/title_type":"packing",
    "price":
    {
      "currency":"INR",
      "value":25.00
    }
  },
]
  
```

<sup>831</sup> updated order value after deducting amount for item being cancelled;

<sup>832</sup> updated quantity of item remaining after merchant part cancel (if entire item is cancelled, this will be 0);

<sup>833</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```
{
  "@ondc/org/item_id": "I1",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price":
  {
    "currency": "INR",
    "value": "0.00"
  }
},
{
  "@ondc/org/item_id": "I1",
  "title": "Discount",
  "@ondc/org/title_type": "discount",
  "price":
  {
    "currency": "INR",
    "value": "-10.00"
  }
},
{
  "@ondc/org/item_id": "F1",
  "title": "Convenience Fee",
  "@ondc/org/title_type": "misc",
  "price":
  {
    "currency": "INR",
    "value": "10.00"
  }
}
],
"ttl": "P1D"
},
"payment"834:
{
  "uri": "https://ondc.transaction.com/payment",
  "params":
  {
    "currency": "INR",
    "transaction_id": "3937",
    "amount": "424.00"
  },
  "status": "PAID",
  "type": "ON-ORDER",
  "collected_by": "BAP",
  "@ondc/org/buyer_app_finder_fee_type": "percent",
  "@ondc/org/buyer_app_finder_fee_amount": "3",
  "@ondc/org/settlement_details":
  [
    {
      "settlement_counterparty": "seller-app",
      "settlement_phase": "sale-amount",
      "beneficiary_name": "xxxxx",
      "settlement_type": "upi",
      "upi_address": "gft@oksbi",
      "settlement_bank_account_no": "XXXXXXXXXXXX",
      "settlement_ifsc_code": "XXXXXXXXXX",
      "bank_name": "xxxx",
      "branch_name": "xxxx"
    }
  ]
},
"created_at": "2023-06-03T09:30:00.000Z",
"updated_at": "2023-06-03T10:31:30.000Z"
}
}
```

**N.B.**

1. For merchant part-cancel, the buyer NP may send NACK with error code 22501 (if the buyer does not accept part fill for the order). In this case, the seller NP will be required to rollback this part cancel request and cancel the full order;

---

<sup>834</sup> optional keys here as defined in /confirm;

/update (settlement trail for refund initiation)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M6",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T11:00:00.000Z"
  },
  "message": {
    "update_target": "payment",
    "order": {
      "id": "O1",
      "fulfillments": [
        {
          "id": "C1",
          "type": "Cancel"
        }
      ],
      "payment": {
        "@ondc/org/settlement_details": [
          {
            "settlement_counterparty": "buyer",
            "settlement_phase": "refund",
            "settlement_type": "upi",
            "settlement_amount": "170.00",
            "settlement_timestamp": "2023-06-03T11:00:00.000Z"
          }
        ]
      }
    }
  }
}
```

**N.B.**

1. Since this is an FYI for the seller NP, there will be no callback corresponding to this request;

## Scenario 2 - Return with reverse QC

- Return of items can only be initiated when fulfillment state is "Order-delivered";
- Return of an item can only be initiated within the return window for the item (as defined in the catalog);
- Return with reverse QC can transition through either of the following state changes:
  - Scenario A - Return approved, Return pick successful:
    - Return\_Initiated -> Return\_Approved -> Return\_Picked (refund triggered here) -> Return\_Delivered
    - Return\_Initiated -> Return\_Approved -> Return\_Pick\_Failed -> Return\_Picked (refund triggered here) -> Return\_Delivered
  - Scenario B - Return approved, Return failed:
    - Return\_Initiated -> Return\_Approved -> Return\_Pick\_Failed -> Return\_Failed
  - Scenario C - Return rejected:
    - Return\_Initiated -> Return\_Rejected
- It is assumed that the LSP assigned for return pickup will have a certain no of pickup attempts and will trigger scenario B after all pickup attempts failed;

/update (buyer initiated part return request for item I1, qty 1)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M6",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T10:30:00.000Z"
  },
  "message": {
    "update_target": "item835",
    "order": {
      "id": "O1",
      "fulfillments": [
        {
          "type": "Return836",
          "tags": [
            {
              "code": "return_request",
              "list": [
                {
                  "code": "id",
                  "value": "R1837"
                },
                {
                  "code": "item_id",
                  "value": "I1"
                },
                {
                  "code": "parent_item_id838",
                  "value": "DI1"
                },
                {
                  "code": "item_quantity",
                  "value": "1"
                }
              ]
            }
          ]
        }
      ]
    }
  }
}
```

<sup>835</sup> enum - "item", "fulfillment", "billing", "payment";

<sup>836</sup> new fulfillment of type "Return" created, with return request initiated from buyer NP; separate return requests can be created for each item (except in cases of make-to-order items where base item & customization can be in same return request), with 1 fulfillment object per return request;

<sup>837</sup> unique id for each return request;

<sup>838</sup> optional - only to be used for make-to-order items;

```

    "code":"reason_id839",
    "value":"003"
},
{
  "code":"reason_desc",
  "value":"detailed description for return840"
},
{
  "code":"images",
  "value":"url_for_image1,url_for_image2"
},
{
  "code":"ttl_approval841",
  "value":"PT24H"
},
{
  "code":"ttl_reverseqc842",
  "value":"P3D"
}
]
}
}
}
}

```

**N.B.**

1. If return reason code is invalid, seller NP can send NACK with error code 30005;

---

<sup>839</sup> valid return reason codes are [here](#);

<sup>840</sup> buyer comment;

<sup>841</sup> ttl for either approving or rejecting the return request;

<sup>842</sup> ttl for initiating reverse qc, reverse qc (if required) should be completed within the return window;

/on\_update (seller NP sends interim status for request)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M6",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T10:30:30.000Z"
  },
  "message": {
    "order843": {
      "id": "O1",
      "state": "Completed",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1"844,
            "quantity": {
              "count": 2
            }
          }
        ],
        "billing": {
          "name": "ONDC buyer",
          "address": {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "email": "nobody@nomail.com",
          "phone": "9886098860",
          "created_at": "2023-06-03T09:00:00.000Z",
          "updated_at": "2023-06-03T09:00:00.000Z"
        },
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "type": "Delivery",
            "tracking": true,
            "@ondc/org/TAT": "PT60M",
            "state": {
              "descriptor": {
                "code": "Order-delivered"
              }
            }
          }
        ]
      }
    }
  }
}
```

<sup>843</sup> shows the current state of order with the new fulfillment for part cancel by merchant;

<sup>844</sup> forward shipment fulfillment;

```

    }
  },
  "start":
  {
    "location":
    {
      "id":"L1",
      "descriptor":
      {
        "name":"ABC Store"
      },
      "gps":"12.956399,77.636803",
      "address":
      {
        "locality":"Jayanagar",
        "city":"Bengaluru",
        "area_code":"560076",
        "state":"KA"
      }
    },
    "time845":
    {
      "timestamp":"2023-06-03T10:25:00.000Z"
    },
    "instructions846":
    {
      "code":"1",
      "name":"Proof of pickup",
      "short_desc":"pickup confirmation code",
      "long_desc":"detailed instructions such as register or counter no for pickup",
      "images":
      [
        "https://lsp.com/pickup_image.png",
        "https://lsp.com/rider_location.png"
      ]
    },
    "authorization847":
    {
      "type":"OTP",
      "token":"OTP code",
      "valid_from":"2023-06-03T12:00:00.000Z",
      "valid_to":"2023-06-03T14:00:00.000Z"
    },
    "contact":
    {
      "phone":"9886098860",
      "email":"nobody@nomail.com"
    }
  },
  "end":
  {
    "location":
    {
      "gps":"12.453544,77.928379",
      "address":
      {
        "name":"my house or door or floor #",
        "building":"my building name or house #",
        "locality":"my street name",
        "city":"Bengaluru",
        "state":"Karnataka",
        "country":"IND",
        "area_code":"560037"
      }
    },
    "time848":
    {
      "timestamp":"2023-06-03T11:35:00.000Z"
    },
    "instructions849":
    {
      "code":"3",
      "name":"Proof of delivery",
      "short_desc":"value of delivery code",
    }
  }
}

```

<sup>845</sup> pickup time;

<sup>846</sup> PCC, proof of pickup;

<sup>847</sup> pickup authorization (optional);

<sup>848</sup> delivery time;

<sup>849</sup> DCC, proof of delivery;

```

  "images": [
    "https://lsp.com/delivery_image.png",
    "https://lsp.com/rider_location.png"
  ],
  "authorization850":
  {
    "type":"OTP",
    "token":"OTP code",
    "valid_from":"2023-06-03T18:00:00.000Z",
    "valid_to":"2023-06-03T22:00:00.000Z"
  },
  "person":
  {
    "name":"name_of_person"
  },
  "contact":
  {
    "phone":"9886098860",
    "email":"nobody@nomail.com"
  }
},
"agent851":
{
  "name":"agent_name",
  "phone":"9886098860"
},
"vehicle852":
{
  "registration":"3LVJ945"
},
{
  "id":"R1853",
  "type":"Return",
  "state":
  {
    "descriptor":
    {
      "code":"Return_Initiated"
    }
  },
  "tags":
  [
    {
      "code":"return_request",
      "list":
      [
        {
          "code":"item_id",
          "value":"I1"
        },
        {
          "code":"item_quantity",
          "value":"1"
        },
        {
          "code":"reason_id",
          "value":"003"
        },
        {
          "code":"reason_desc",
          "value":"detailed description for return"
        },
        {
          "code":"images",
          "value":"url_for_image1,url_for_image2"
        },
        {
          "code":"ttl_approval",
          "value":"PT24H"
        }
      ]
    }
  ]
}

```

<sup>850</sup> delivery authorization (optional);

<sup>851</sup> agent details (optional);

<sup>852</sup> vehicle details (for rider) or buyer (for kerbside pickup) - optional;

<sup>853</sup> new fulfillment created with the same id as return request with status code "Return\_Initiated". If return is approved ("Return\_Approved" or "Liquidated"), the items will be assigned to this fulfillment, else, the status code will change to "Return\_Rejected";

```

    {
      "code":"ttl_reverseqc",
      "value":"P3D"
    },
    {
      "code":"initiated_by",
      "value":"buyerNP.com"
    }
  ]
},
"quote":
{
  "price":
  {
    "currency":"INR",
    "value":424.00
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count":2
      },
      "title":"Atta",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":340.00
      },
      "item":
      {
        "price":
        {
          "currency":"INR",
          "value":170.00
        }
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Delivery charges",
      "@ondc/org/title_type":"delivery",
      "price":
      {
        "currency":"INR",
        "value":50.00
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Tax",
      "@ondc/org/title_type":"tax854",
      "price":
      {
        "currency":"INR",
        "value":9.00
      },
      "item":
      {
        "tags":
        [
          {
            "code":"quote",
            "list":
            [
              {
                "code":"type",
                "value":"fulfillment"
              }
            ]
          }
        ]
      }
    }
  ]
}

```

<sup>854</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

    ],
    {
      "@ondc/org/item_id":"F1",
      "title":"Packing charges",
      "@ondc/org/title_type":"packing",
      "price":
      {
        "currency":"INR",
        "value":"25.00"
      },
      {
        "@ondc/org/item_id":"I1",
        "title":"Tax",
        "@ondc/org/title_type":"tax",
        "price":
        {
          "currency":"INR",
          "value":"0.00"
        },
        {
          "@ondc/org/item_id":"I1",
          "title":"Discount",
          "@ondc/org/title_type":"discount",
          "price":
          {
            "currency":"INR",
            "value":"-10.00"
          }
        },
        {
          "@ondc/org/item_id":"F1",
          "title":"Convenience Fee",
          "@ondc/org/title_type":"misc",
          "price":
          {
            "currency":"INR",
            "value":"10.00"
          }
        }
      ],
      "ttl":"P1D"
    },
    "payment"855:
    {
      "uri":"https://ondc.transaction.com/payment",
      "params":
      {
        "currency":"INR",
        "transaction_id":"3937",
        "amount":"424.00"
      },
      "status":"PAID",
      "type":"ON-ORDER",
      "collected_by":"BAP",
      "@ondc/org/buyer_app_finder_fee_type":"percent",
      "@ondc/org/buyer_app_finder_fee_amount":"3",
      "@ondc/org/settlement_details":
      [
        {
          "settlement_counterparty":"seller-app",
          "settlement_phase":"sale-amount",
          "beneficiary_name":"xxxxx",
          "settlement_type":"upi",
          "upi_address":"gft@oksbi",
          "settlement_bank_account_no":"XXXXXXXXXXXX",
          "settlement_ifsc_code":"XXXXXXXXX",
          "bank_name":"xxxx",
          "branch_name":"xxxx"
        }
      ],
      "created_at":"2023-06-03T09:30:00.000Z",
      "updated_at":"2023-06-03T10:31:30.000Z"
    }
  }

```

<sup>855</sup> optional keys here as defined in /confirm;

/on\_update (seller NP approves request & wants item back)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M7",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T13:30:00.000Z"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Completed",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1856",856
            "quantity": {
              "count": 2
            }
          }
        ],
        "billing": {
          "name": "ONDC buyer",
          "address": {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "email": "nobody@nomail.com",
          "phone": "9886098860",
          "created_at": "2023-06-03T09:00:00.000Z",
          "updated_at": "2023-06-03T09:00:00.000Z"
        },
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "type": "Delivery",
            "tracking": true,
            "@ondc/org/TAT": "PT60M",
            "state": {
              "descriptor": {
                "code": "Order-delivered"
              }
            }
          }
        ]
      }
    }
  }
}
```

---

<sup>856</sup> forward shipment fulfillment;

```

"start":
{
  "location":
  {
    "id":"L1",
    "descriptor":
    {
      "name":"ABC Store"
    },
    "gps":"12.956399,77.636803",
    "address":
    {
      "locality":"Jayanagar",
      "city":"Bengaluru",
      "area_code":"560076",
      "state":"KA"
    }
  },
  "time857":
  {
    "timestamp":"2023-06-03T10:25:00.000Z"
  },
  "instructions858":
  {
    "code":"1",
    "name":"Proof of pickup",
    "short_desc":"pickup confirmation code",
    "long_desc":"detailed instructions such as register or counter no for pickup",
    "images":
    [
      "https://lsp.com/pickup_image.png",
      "https://lsp.com/rider_location.png"
    ]
  },
  "authorization859":
  {
    "type":"OTP",
    "token":"OTP code",
    "valid_from":"2023-06-03T12:00:00.000Z",
    "valid_to":"2023-06-03T14:00:00.000Z"
  },
  "contact":
  {
    "phone":"9886098860",
    "email":"nobody@nomail.com"
  }
},
"end":
{
  "location":
  {
    "gps":"12.453544,77.928379",
    "address":
    {
      "name":"my house or door or floor #",
      "building":"my building name or house #",
      "locality":"my street name",
      "city":"Bengaluru",
      "state":"Karnataka",
      "country":"IND",
      "area_code":"560037"
    }
  },
  "time860":
  {
    "timestamp":"2023-06-03T11:35:00.000Z"
  },
  "instructions861":
  {
    "code":"3",
    "name":"Proof of delivery",
    "short_desc":"value of delivery code",
    "images":
    [
  
```

<sup>857</sup> pickup time;

<sup>858</sup> PCC, proof of pickup;

<sup>859</sup> pickup authorization (optional);

<sup>860</sup> delivery time;

<sup>861</sup> DCC, proof of delivery;

```

    "https://lsp.com/delivery_image.png",
    "https://lsp.com/rider_location.png"
  ],
  "authorization862":
  {
    "type":"OTP",
    "token":"OTP code",
    "valid_from":"2023-06-03T18:00:00.000Z",
    "valid_to":"2023-06-03T22:00:00.000Z"
  },
  "person":
  {
    "name":"name_of_person"
  },
  "contact":
  {
    "phone":"9886098860",
    "email":"nobody@nomail.com"
  }
},
"agent863":
{
  "name":"agent_name",
  "phone":"9886098860"
},
"vehicle864":
{
  "registration":"3LVJ945"
}
},
{
  "id":"R1",
  "type":"Return",
  "@ondc/org/provider_name":"LSP courier 1",
  "state":
  {
    "descriptor":
    {
      "code":"Return_Approved865"
    }
  },
  "start":
  {
    "location":
    {
      "gps":"12.453544,77.928379",
      "address":
      {
        "name":"my house or door or floor #",
        "building":"my building name or house #",
        "locality":"my street name",
        "city":"Bengaluru",
        "state":"Karnataka",
        "country":"IND",
        "area_code":"560037"
      }
    }
  },
  "time":
  {
    "range866":
    {
      "start":"2023-06-04T10:00:00.000Z",
      "end":"2023-06-04T10:30:00.000Z"
    }
  }
},
"end":
{
  "location867":
  {
    "gps":"12.956399,77.636803",
    "address":

```

<sup>862</sup> delivery authorization (optional);

<sup>863</sup> agent details (optional);

<sup>864</sup> vehicle details (for rider) or buyer (for kerbside pickup) - optional;

<sup>865</sup> if rejected, status code will be "Return\_Rejected";

<sup>866</sup> time slot for reverse pickup, should be within the return window;

<sup>867</sup> reverse pickup end location, i.e. seller address;

```

    {
      "locality":"Jayanagar 4th Block",
      "city":"Bengaluru",
      "area_code":"560076",
      "state":"KA"
    }
  },
  "tags": [
    {
      "code":"return_request",
      "list": [
        {
          "code":"item_id",
          "value":"I1"
        },
        {
          "code":"item_quantity",
          "value":1
        },
        {
          "code":"reason_id",
          "value":003
        },
        {
          "code":"reason_desc",
          "value":"detailed description for return"
        },
        {
          "code":"images",
          "value":url_for_image1,url_for_image2
        },
        {
          "code":"ttl_approval",
          "value":PT24H
        },
        {
          "code":"ttl_reverseqc",
          "value":P3D
        },
        {
          "code":"initiated_by",
          "value":buyerNP.com
        }
      ]
    },
    {
      "code":igm_request868,
      "list": [
        {
          "code":id,
          "value":Issue1869
        }
      ]
    },
    {
      "code":reverseqc_input870,
      "list": [
        {
          "code":P001,
          "value":Atta"
        },
        {
          "code":P003,
          "value":1
        }
      ]
    }
  ]
}

```

<sup>868</sup> (optional) reference to issue related to return request raised in IGM, this will be added here only after issue resolution and returned in all post-order APIs like /on\_status, /on\_update, /on\_cancel;

<sup>869</sup> IGM issue id;

<sup>870</sup> may be provided if fulfillment.type="Return"; codified reverse qc checklist (includes product attributes & questionnaire); universal checklist is [here](#);

```

    "code":"Q001",
    "value":"
  }
]
},
"quote":
{
  "price":
  {
    "currency":"INR",
    "value":"424.00"
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count":2
      },
      "title":"Atta",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"340.00"
      },
      "item":
      {
        "price":
        {
          "currency":"INR",
          "value":"170.00"
        }
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Delivery charges",
      "@ondc/org/title_type":"delivery",
      "price":
      {
        "currency":"INR",
        "value":"50.00"
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Tax",
      "@ondc/org/title_type":"tax871",
      "price":
      {
        "currency":"INR",
        "value":"9.00"
      },
      "item":
      {
        "tags":
        [
          {
            "code":"quote",
            "list":
            [
              {
                "code":"type",
                "value":"fulfillment"
              }
            ]
          }
        ]
      }
    }
  ],
  "@ondc/org/item_id":"F1",

```

<sup>871</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

    "title":"Packing charges",
    "@ondc/org/title_type":"packing",
    "price":
    {
      "currency":"INR",
      "value":"25.00"
    },
    {
      "@ondc/org/item_id":"I1",
      "title":"Tax",
      "@ondc/org/title_type":"tax",
      "price":
      {
        "currency":"INR",
        "value":"0.00"
      }
    },
    {
      "@ondc/org/item_id":"I1",
      "title":"Discount",
      "@ondc/org/title_type":"discount",
      "price":
      {
        "currency":"INR",
        "value":"-10.00"
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Convenience Fee",
      "@ondc/org/title_type":"misc",
      "price":
      {
        "currency":"INR",
        "value":"10.00"
      }
    }
  ],
  "ttl":"P1D"
},
"payment"872:
{
  "uri":"https://ondc.transaction.com/payment",
  "tl_method":"http/get",
  "params":
  {
    "currency":"INR",
    "transaction_id":"3937",
    "amount":"424.00"
  },
  "status":"PAID",
  "type":"ON-ORDER",
  "collected_by":"BAP",
  "@ondc/org/buyer_app_finder_fee_type":"percent",
  "@ondc/org/buyer_app_finder_fee_amount":"3",
  "@ondc/org/settlement_details":
  [
    {
      "settlement_counterparty":"seller-app",
      "settlement_phase":"sale-amount",
      "beneficiary_name":"xxxxx",
      "settlement_type":"upi",
      "upi_address":"gft@oksbi",
      "settlement_bank_account_no":"XXXXXXXXXXXX",
      "settlement_ifsc_code":"XXXXXXXXXX",
      "bank_name":"xxxx",
      "branch_name":"xxxx"
    }
  ]
},
"created_at":"2023-06-03T09:30:00.000Z",
"updated_at":"2023-06-03T13:30:00.000Z"
}
}

```

<sup>872</sup> optional keys here as defined in /confirm;

/on\_update (return picked)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M8",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-04T12:00:00.000Z"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Completed",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 1
            }
          },
          {
            "id": "I1",
            "fulfillment_id": "R1",
            "quantity": {
              "count": 1
            }
          }
        ],
        "billing": {
          "name": "ONDC buyer",
          "address": {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "email": "nobody@nomail.com",
          "phone": "9886098860",
          "created_at": "2023-06-03T09:00:00.000Z",
          "updated_at": "2023-06-03T09:00:00.000Z"
        },
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "type": "Delivery",
            "tracking": true,
            "@ondc/org/TAT": "PT60M",
            "state": "Picked"
          }
        ]
      }
    }
  }
}
```

```
{
  "descriptor": [
    {
      "code": "Order-delivered"
    }
  ],
  "start": [
    {
      "location": [
        {
          "id": "L1",
          "descriptor": [
            {
              "name": "ABC Store"
            },
            {
              "gps": "12.956399,77.636803",
              "address": [
                {
                  "locality": "Jayanagar",
                  "city": "Bengaluru",
                  "area_code": "560076",
                  "state": "KA"
                }
              ]
            },
            "time873*": [
              {
                "timestamp": "2023-06-03T10:25:00.000Z"
              }
            ],
            "instructions874*": [
              {
                "code": "1",
                "name": "Proof of pickup",
                "short_desc": "pickup confirmation code",
                "long_desc": "detailed instructions such as register or counter no for pickup",
                "images": [
                  "https://lsp.com/pickup_image.png",
                  "https://lsp.com/rider_location.png"
                ]
              }
            ],
            "authorization875*": [
              {
                "type": "OTP",
                "token": "OTP code",
                "valid_from": "2023-06-03T12:00:00.000Z",
                "valid_to": "2023-06-03T14:00:00.000Z"
              }
            ],
            "contact": [
              {
                "phone": "9886098860",
                "email": "nobody@nomail.com"
              }
            ],
            "end": [
              {
                "location": [
                  {
                    "gps": "12.453544,77.928379",
                    "address": [
                      {
                        "name": "my house or door or floor #",
                        "building": "my building name or house #",
                        "locality": "my street name",
                        "city": "Bengaluru",
                        "state": "Karnataka",
                        "country": "IND",
                        "area_code": "560037"
                      }
                    ]
                  },
                  "time876*": [
                    {
                      "timestamp": "2023-06-03T11:35:00.000Z"
                    }
                  ],
                  "instructions877*": [
                    ...
                  ]
                ]
              }
            ]
          ]
        }
      ]
    }
  ]
}
```

<sup>873</sup> pickup time;

<sup>874</sup> PCC, proof of pickup;

<sup>875</sup> pickup authorization (optional);

<sup>876</sup> delivery time;

<sup>877</sup> DCC, proof of delivery;

```
{
  "code":"3",
  "name":"Proof of delivery",
  "short_desc":"value of delivery code",
  "images":
  [
    "https://lsp.com/delivery_image.png",
    "https://lsp.com/rider_location.png"
  ],
  "authorization878":
  {
    "type":"OTP",
    "token":"OTP code",
    "valid_from":"2023-06-03T18:00:00.000Z",
    "valid_to":"2023-06-03T22:00:00.000Z"
  },
  "person":
  {
    "name": "name_of_person"
  },
  "contact":
  {
    "phone": "9886098860",
    "email": "nobody@nomail.com"
  },
  "agent879":
  {
    "name": "agent_name",
    "phone": "9886098860"
  },
  "vehicle880":
  {
    "registration": "3LVJ945"
  },
  {
    "id": "R1",
    "type": "Return",
    "@ondc/org/provider_name": "LSP courier 1",
    "state":
    {
      "descriptor":
      {
        "code": "Return_Picked881"
      }
    },
    "start":
    {
      "location":
      {
        "gps": "12.453544,77.928379",
        "address":
        {
          "name": "my house or door or floor #",
          "building": "my building name or house #",
          "locality": "my street name",
          "city": "Bengaluru",
          "state": "Karnataka",
          "country": "IND",
          "area_code": "560037"
        }
      }
    },
    "time":
    {
      "timestamp882: "2023-06-04T10:15:00.000Z"
    }
  },
  "end":
  {
    "location883":
    {

```

<sup>878</sup> delivery authorization (optional);

<sup>879</sup> agent details (optional);

<sup>880</sup> vehicle details (for rider) or buyer (for kerbside pickup) - optional;

<sup>881</sup> status updated;

<sup>882</sup> pickup time updated;

<sup>883</sup> reverse pickup end location, i.e. seller address;

```

    "gps":"12.956399,77.636803",
    "address":
    {
      "locality":"Jayanagar 4th Block",
      "city":"Bengaluru",
      "area_code":"560076",
      "state":"KA"
    }
  },
  "tags":
  [
    {
      "code":"return_request",
      "list":
      [
        {
          "code":"item_id",
          "value":"I1"
        },
        {
          "code":"item_quantity",
          "value":"1"
        },
        {
          "code":"reason_id",
          "value":"003"
        },
        {
          "code":"reason_desc",
          "value":"detailed description for return"
        },
        {
          "code":"images",
          "value":"url_for_image1,url_for_image2"
        },
        {
          "code":"ttl_approval",
          "value":PT24H
        },
        {
          "code":"ttl_reverseqc",
          "value":P3D
        },
        {
          "code":"initiated_by",
          "value":buyerNP.com
        }
      ]
    },
    {
      "code":igm_request884,
      "list":
      [
        {
          "code":"id",
          "value":Issue1885
        }
      ]
    },
    {
      "code":quote_trail,
      "list":
      [
        {
          "code":type,
          "value":item
        },
        {
          "code":id,
          "value":I1
        },
        {
          "code":currency,
          "value":INR
        }
      ]
    }
  ]
}

```

<sup>884</sup> (optional) reference to issue related to return request raised in IGM, this will be added here only after issue resolution and returned in all post-order APIs like /on\_status, /on\_update, /on\_cancel;

<sup>885</sup> IGM issue id;

```

    {
      "code":"value",
      "value":"-170.00"
    }
  ],
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value":"tax"
      },
      {
        "code":"id",
        "value":"I1"
      },
      {
        "code":"currency",
        "value":INR
      },
      {
        "code":"value",
        "value":0.00
      }
    ]
  }
],
"quote":
{
  "price":
  {
    "currency":INR,
    "value":254.00
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":I1,
      "@ondc/org/item_quantity":
      {
        "count":1
      },
      "title":Atta,
      "@ondc/org/title_type":item,
      "price":
      {
        "currency":INR,
        "value":170.00
      },
      "item":
      {
        "price":
        {
          "currency":INR,
          "value":170.00
        }
      }
    },
    {
      "@ondc/org/item_id":F1,
      "title":Delivery charges,
      "@ondc/org/title_type":delivery,
      "price":
      {
        "currency":INR,
        "value":50.00
      }
    },
    {
      "@ondc/org/item_id":F1,
      "title":Tax,
      "@ondc/org/title_type":tax886,
      "price":
    
```

<sup>886</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

{
  "currency":"INR",
  "value":"9.00"
},
"item":
{
  "tags":
  [
    {
      "code":"quote",
      "list":
      [
        {
          "code":"type",
          "value":"fulfillment"
        }
      ]
    }
  ],
  "@ondc/org/item_id":"F1",
  "title":"Packing charges",
  "@ondc/org/title_type":"packing",
  "price":
  {
    "currency":"INR",
    "value":"25.00"
  },
  {
    "@ondc/org/item_id":"I1",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
    {
      "currency":"INR",
      "value":"0.00"
    }
  },
  {
    "@ondc/org/item_id":"I1",
    "title":"Discount",
    "@ondc/org/title_type":"discount",
    "price":
    {
      "currency":"INR",
      "value":"-10.00"
    }
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Convenience Fee",
    "@ondc/org/title_type":"misc",
    "price":
    {
      "currency":"INR",
      "value":"10.00"
    }
  }
],
"ttl":"P1D"
},
"payment887":
{
  "uri":"https://ondc.transaction.com/payment",
  "tl_method":"http/get",
  "params":
  {
    "currency":"INR",
    "transaction_id":"3937",
    "amount":"424.00"
  },
  "status":"PAID",
  "type":"ON-ORDER",
  "collected_by":"BAP",
  "@ondc/org/buyer_app_finder_fee_type":"percent",
}

```

<sup>887</sup> optional keys here as defined in /confirm;

```

"@ondc/org/buyer_app_finder_fee_amount":"3",
"@ondc/org/settlement_details":
[
{
  "settlement_counterparty":"seller-app",
  "settlement_phase":"sale-amount",
  "beneficiary_name":"xxxxx",
  "settlement_type":"upi",
  "upi_address":"gft@oksbi",
  "settlement_bank_account_no":"XXXXXXXXXXXX",
  "settlement_ifsc_code":"XXXXXXXXXX",
  "bank_name":"xxxx",
  "branch_name":"xxxx"
},
],
"documents888":
[
{
  "url":"https://invoice_url",
  "label":"Invoice"
},
],
"created_at":"2023-06-03T09:30:00.000Z",
"updated_at":"2023-06-04T12:00:00.000Z"
}
}

```

---

<sup>888</sup> invoice from seller;

/on\_update (return pick attempted & failed, rescheduled)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M8",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-04T12:00:00.000Z"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Completed",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 1
            }
          }
        ],
        "billing": {
          "name": "ONDC buyer",
          "address": {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "email": "nobody@nomail.com",
          "phone": "9886098860",
          "created_at": "2023-06-03T09:00:00.000Z",
          "updated_at": "2023-06-03T09:00:00.000Z"
        },
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "type": "Delivery",
            "tracking": true,
            "@ondc/org/TAT": "PT60M",
            "state": {
              "descriptor": {
                "code": "Order-delivered"
              }
            },
            "start": {
              "time": "2023-06-04T12:00:00.000Z"
            }
          }
        ]
      }
    }
  }
}
```

```

"location":
{
  "id":"L1",
  "descriptor":
  {
    "name":"ABC Store"
  },
  "gps":"12.956399,77.636803",
  "address":
  {
    "locality":"Jayanagar",
    "city":"Bengaluru",
    "area_code":"560076",
    "state":"KA"
  }
},
"time889":
{
  "timestamp":"2023-06-03T10:25:00.000Z"
},
"instructions890":
{
  "code":"1",
  "name":"Proof of pickup",
  "short_desc":"pickup confirmation code",
  "long_desc":"detailed instructions such as register or counter no for pickup",
  "images":
  [
    "https://lsp.com/pickup_image.png",
    "https://lsp.com/rider_location.png"
  ]
},
"authorization891":
{
  "type":"OTP",
  "token":"OTP code",
  "valid_from":"2023-06-03T12:00:00.000Z",
  "valid_to":"2023-06-03T14:00:00.000Z"
},
"contact":
{
  "phone":"9886098860",
  "email":"nobody@nomail.com"
},
"end":
{
  "location":
  {
    "gps":"12.453544,77.928379",
    "address":
    {
      "name":"my house or door or floor #",
      "building":"my building name or house #",
      "locality":"my street name",
      "city":"Bengaluru",
      "state":"Karnataka",
      "country":"IND",
      "area_code":"560037"
    }
  },
  "time892":
  {
    "timestamp":"2023-06-03T11:35:00.000Z"
  },
  "instructions893":
  {
    "code":"3",
    "name":"Proof of delivery",
    "short_desc":"value of delivery code",
    "images":
    [
      "https://lsp.com/delivery_image.png",
      "https://lsp.com/rider_location.png"
    ]
  }
}

```

<sup>889</sup> pickup time;

<sup>890</sup> PCC, proof of pickup;

<sup>891</sup> pickup authorization (optional);

<sup>892</sup> delivery time;

<sup>893</sup> DCC, proof of delivery;

```

    ],
  "authorization894":
  {
    "type":"OTP",
    "token":"OTP code",
    "valid_from":"2023-06-03T18:00:00.000Z",
    "valid_to":"2023-06-03T22:00:00.000Z"
  },
  "person":
  {
    "name":"name_of_person"
  },
  "contact":
  {
    "phone":"9886098860",
    "email":"nobody@nomail.com"
  }
},
"agent895":
{
  "name":"agent_name",
  "phone":"9886098860"
},
"vehicle896":
{
  "registration":"3LVJ945"
},
{
  "id":"R1",
  "type":"Return",
  "@ondc/org/provider_name":"LSP courier 1",
  "state":
  {
    "descriptor":
    {
      "code":"Return_Pick_Failed",
      "short_desc":"010897"
    }
  },
  "start":
  {
    "time":
    {
      "range898":
      {
        "start":"2023-06-05T10:00:00.000Z",
        "end":"2023-06-05T10:30:00.000Z"
      },
      "timestamp899":"2023-06-04T10:15:00.000Z"
    }
  },
  "tags":
  [
    {
      "code":"return_request",
      "list":
      [
        {
          "code":"item_id",
          "value":"I1"
        },
        {
          "code":"item_quantity",
          "value":"1"
        },
        {
          "code":"reason_id",
          "value":"003"
        },
        {
          "code":"reason_desc",
        }
      ]
    }
  ]
}

```

<sup>894</sup> delivery authorization (optional);

<sup>895</sup> agent details (optional);

<sup>896</sup> vehicle details (for rider) or buyer (for kerbside pickup) - optional;

<sup>897</sup> valid pickup failure reason codes are [here](#);

<sup>898</sup> **If return pick failed, rescheduled time slot to be provided here;**

<sup>899</sup> time when pickup attempted;

```

    "value":"detailed description for return"
  },
  {
    "code":"images",
    "value":"url_for_image1,url_for_image2"
  },
  {
    "code":"ttl_approval",
    "value":"PT24H"
  },
  {
    "code":"ttl_reverseqc",
    "value":P3D
  },
  {
    "code":"initiated_by",
    "value":buyerNP.com
  }
],
{
  "code":"igm_request900",
  "list":
  [
    {
      "code":"id",
      "value":Issue1901
    }
  ]
},
"quote":
{
  "price":
  {
    "currency":INR,
    "value":415.00
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":I1,
      "@ondc/org/item_quantity":
      {
        "count":2
      },
      "title":Atta,
      "@ondc/org/title_type":item,
      "price":
      {
        "currency":INR,
        "value":340.00
      },
      "item":
      {
        "price":
        {
          "currency":INR,
          "value":170.00
        }
      }
    },
    {
      "@ondc/org/item_id":F1,
      "title":Delivery charges,
      "@ondc/org/title_type":delivery,
      "price":
      {
        "currency":INR,
        "value":50.00
      }
    }
  ],
  "@ondc/org/item_id":F1,

```

<sup>900</sup> (optional) reference to issue related to return request raised in IGM, this will be added here only after issue resolution and returned in all post-order APIs like /on\_status, /on\_update, /on\_cancel;

<sup>901</sup> IGM issue id;

```

    "title":"Packing charges",
    "@ondc/org/title_type":"packing",
    "price":
    {
      "currency":"INR",
      "value":"25.00"
    },
    {
      "@ondc/org/item_id":"I1",
      "title":"Tax",
      "@ondc/org/title_type":"tax",
      "price":
      {
        "currency":"INR",
        "value":"0.00"
      }
    },
    {
      "@ondc/org/item_id":"I1",
      "title":"Discount",
      "@ondc/org/title_type":"discount",
      "price":
      {
        "currency":"INR",
        "value":"-10.00"
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Convenience Fee",
      "@ondc/org/title_type":"misc",
      "price":
      {
        "currency":"INR",
        "value":"10.00"
      }
    }
  ],
  "ttl":"P1D"
},
"payment902":
{
  "uri":"https://ondc.transaction.com/payment",
  "tl_method":"http/get",
  "params":
  {
    "currency":"INR",
    "transaction_id":"3937",
    "amount":"415.00"
  },
  "status":"PAID",
  "type":"ON-ORDER",
  "collected_by":"BAP",
  "@ondc/org/buyer_app_finder_fee_type":"percent",
  "@ondc/org/buyer_app_finder_fee_amount":"3",
  "@ondc/org/settlement_details":
  [
    {
      "settlement_counterparty":"seller-app",
      "settlement_phase":"sale-amount",
      "beneficiary_name":"xxxxx",
      "settlement_type":"upi",
      "upi_address":"gft@oksbi",
      "settlement_bank_account_no":"XXXXXXXXXXXX",
      "settlement_ifsc_code":"XXXXXXXXXX",
      "bank_name":"xxxx",
      "branch_name":"xxxx"
    }
  ]
},
"created_at":"2023-06-03T09:30:00.000Z",
"updated_at":"2023-06-04T12:00:00.000Z"
}
}

```

<sup>902</sup> optional keys here as defined in /confirm;

/on\_update (return pick attempted, rejected)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M9",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-05T12:00:00.000Z"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Completed",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 2
            }
          }
        ],
        "billing": {
          "name": "ONDC buyer",
          "address": {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "email": "nobody@nomail.com",
          "phone": "9886098860",
          "created_at": "2023-06-03T09:00:00.000Z",
          "updated_at": "2023-06-03T09:00:00.000Z"
        },
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "type": "Delivery",
            "tracking": true,
            "@ondc/org/TAT": "PT60M",
            "state": {
              "descriptor": {
                "code": "Order-delivered"
              }
            },
            "start": {
              "time": "2023-06-03T12:00:00.000Z"
            }
          }
        ]
      }
    }
  }
}
```

```

"location":
{
  "id":"L1",
  "descriptor":
  {
    "name":"ABC Store"
  },
  "gps":"12.956399,77.636803",
  "address":
  {
    "locality":"Jayanagar",
    "city":"Bengaluru",
    "area_code":"560076",
    "state":"KA"
  }
},
"time903":
{
  "timestamp":"2023-06-03T10:25:00.000Z"
},
"instructions904":
{
  "code":"1",
  "name":"Proof of pickup",
  "short_desc":"pickup confirmation code",
  "long_desc":"detailed instructions for pickup",
  "images":
  [
    "https://lsp.com/pickup_image.png",
    "https://lsp.com/rider_location.png"
  ]
},
"authorization905":
{
  "type":"OTP",
  "token":"OTP code",
  "valid_from":"2023-06-03T12:00:00.000Z",
  "valid_to":"2023-06-03T14:00:00.000Z"
},
"contact":
{
  "phone":"9886098860",
  "email":"nobody@nomail.com"
},
"end":
{
  "location":
  {
    "gps":"12.453544,77.928379",
    "address":
    {
      "name":"my house or door or floor #",
      "building":"my building name or house #",
      "locality":"my street name",
      "city":"Bengaluru",
      "state":"Karnataka",
      "country":"IND",
      "area_code":"560037"
    }
  },
  "time906":
  {
    "timestamp":"2023-06-03T11:35:00.000Z"
  },
  "instructions907":
  {
    "code":"3",
    "name":"Proof of delivery",
    "short_desc":"value of delivery code",
    "images":
    [
      "https://lsp.com/delivery_image.png",
      "https://lsp.com/rider_location.png"
    ]
  }
}

```

<sup>903</sup> pickup time;

<sup>904</sup> PCC, proof of pickup;

<sup>905</sup> pickup authorization (optional);

<sup>906</sup> delivery time;

<sup>907</sup> DCC, proof of delivery;

```

    ],
  "authorization908*:
  {
    "type":"OTP",
    "token":"OTP code",
    "valid_from":"2023-06-03T18:00:00.000Z",
    "valid_to":"2023-06-03T22:00:00.000Z"
  },
  "person":
  {
    "name":"name_of_person"
  },
  "contact":
  {
    "phone":"9886098860",
    "email":"nobody@nomail.com"
  }
},
"agent909*:
{
  "name":"agent_name",
  "phone":"9886098860"
},
"vehicle910*:
{
  "registration":"3LVJ945"
}
},
{
  "id":"R1",
  "type":"Return",
  "@ondc/org/provider_name":"LSP courier 1",
  "state":
  {
    "descriptor":
    {
      "code":"Return_Failed911*",
      "short_desc":"rejection reason code912*"
    }
  },
  "start":
  {
    "time":
    {
      "range":
      {
        "start":"2023-06-05T10:00:00.000Z",
        "end":"2023-06-05T10:30:00.000Z"
      },
      "timestamp913*":"2023-06-05T11:00:00.000Z"
    }
  },
  "tags":
  [
    {
      "code":"return_request",
      "list":
      [
        {
          "code":"item_id",
          "value":"I1"
        },
        {
          "code":"item_quantity",
          "value":"1"
        },
        {
          "code":"reason_id",
          "value":"003"
        },
        {
          "code":"reason_desc",
        }
      ]
    }
  ]
}

```

<sup>908</sup> delivery authorization (optional);

<sup>909</sup> agent details (optional);

<sup>910</sup> vehicle details (for rider) or buyer (for kerbside pickup) - optional;

<sup>911</sup> if QC rejected, this will be set to "Return\_Rejected";

<sup>912</sup> valid rejection reason codes are [here](#);

<sup>913</sup> time when return marked as failed after number of return pickup attempts exhausted;

```

    "value":"detailed description for return"
  },
  {
    "code":"images",
    "value":"url_for_image1,url_for_image2"
  },
  {
    "code":"ttl_approval",
    "value":"PT24H"
  },
  {
    "code":"ttl_reverseqc",
    "value":P3D"
  },
  {
    "code":"initiated_by",
    "value":buyerNP.com"
  }
],
{
  "code":"igm_request914",
  "list":
  [
    {
      "code":"id",
      "value":Issue1915
    }
  ]
},
"quote":
{
  "price":
  {
    "currency":INR,
    "value":424.00
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":I1,
      "@ondc/org/item_quantity":
      {
        "count":2
      },
      "title":Atta,
      "@ondc/org/title_type":item,
      "price":
      {
        "currency":INR,
        "value":340.00
      },
      "item":
      {
        "price":
        {
          "currency":INR,
          "value":170.00
        }
      }
    },
    {
      "@ondc/org/item_id":F1,
      "title":Delivery charges,
      "@ondc/org/title_type":delivery,
      "price":
      {
        "currency":INR,
        "value":50.00
      }
    }
  ],
  "@ondc/org/item_id":F1,

```

<sup>914</sup> (optional) reference to issue related to return request raised in IGM, this will be added here only after issue resolution and returned in all post-order APIs like /on\_status, /on\_update, /on\_cancel;

<sup>915</sup> IGM issue id;

```

"title":"Tax",
"@ondc/org/title_type":"tax916",
"price":
{
  "currency":"INR",
  "value":"9.00"
},
"item":
{
  "tags":
  [
    {
      "code":"quote",
      "list":
      [
        {
          "code":"type",
          "value":"fulfillment"
        }
      ]
    }
  ]
},
"@ondc/org/item_id":"F1",
"title":"Packing charges",
"@ondc/org/title_type":"packing",
"price":
{
  "currency":"INR",
  "value":"25.00"
},
"@ondc/org/item_id":"I1",
"title":"Tax",
"@ondc/org/title_type":"tax",
"price":
{
  "currency":"INR",
  "value":"0.00"
},
"@ondc/org/item_id":"I1",
"title":"Discount",
"@ondc/org/title_type":"discount",
"price":
{
  "currency":"INR",
  "value":"-10.00"
},
"@ondc/org/item_id":"F1",
"title":"Convenience Fee",
"@ondc/org/title_type":"misc",
"price":
{
  "currency":"INR",
  "value":"10.00"
},
],
"ttl":"P1D"
},
"payment917":
{
  "uri":"https://ondc.transaction.com/payment",
  "tl_method":"http/get",
  "params":
  {
    "currency":"INR",
    "transaction_id":"3937",
    "amount":"424.00"
  }
}

```

<sup>916</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

<sup>917</sup> optional keys here as defined in /confirm;

```

},
"status":"PAID",
"type":"ON-ORDER",
"collected_by":"BAP",
"@ondc/org/buyer_app_finder_fee_type":"percent",
"@ondc/org/buyer_app_finder_fee_amount":"3",
"@ondc/org/settlement_details":
[
{
  "settlement_counterparty":"seller-app",
  "settlement_phase":"sale-amount",
  "beneficiary_name":"xxxxx",
  "settlement_type":"upi",
  "upi_address":"gft@oksbi",
  "settlement_bank_account_no":"XXXXXXXXXXXX",
  "settlement_ifsc_code":"XXXXXXXXX",
  "bank_name":"xxxx",
  "branch_name":"xxxx"
}
],
"created_at":"2023-06-03T09:30:00.000Z",
"updated_at":"2023-06-04T12:00:00.000Z"
}
}
}

```

/on\_update (return delivered)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M10",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-05T12:00:00.000Z"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Completed",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 1
            }
          },
          {
            "id": "I1",
            "fulfillment_id": "R1",
            "quantity": {
              "count": 1
            }
          }
        ],
        "billing": {
          "name": "ONDC buyer",
          "address": {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "email": "nobody@nomail.com",
          "phone": "9886098860",
          "created_at": "2023-06-03T09:00:00.000Z",
          "updated_at": "2023-06-03T09:00:00.000Z"
        },
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "type": "Delivery",
            "tracking": true,
            "@ondc/org/TAT": "PT60M",
            "state": "Delivered"
          }
        ]
      }
    }
  }
}
```

```
{
  "descriptor": [
    {
      "code": "Order-delivered"
    }
  ],
  "start": [
    {
      "location": [
        {
          "id": "L1",
          "descriptor": [
            {
              "name": "ABC Store"
            },
            {
              "gps": "12.956399,77.636803",
              "address": [
                {
                  "locality": "Jayanagar",
                  "city": "Bengaluru",
                  "area_code": "560076",
                  "state": "KA"
                }
              ]
            }
          ],
          "time918": [
            {
              "timestamp": "2023-06-03T10:25:00.000Z"
            }
          ],
          "instructions919": [
            {
              "code": "1",
              "name": "Proof of pickup",
              "short_desc": "pickup confirmation code",
              "long_desc": "detailed instructions for pickup",
              "images": [
                "https://lsp.com/pickup_image.png",
                "https://lsp.com/rider_location.png"
              ]
            }
          ],
          "authorization920": [
            {
              "type": "OTP",
              "token": "OTP code",
              "valid_from": "2023-06-03T12:00:00.000Z",
              "valid_to": "2023-06-03T14:00:00.000Z"
            }
          ],
          "contact": [
            {
              "phone": "9886098860",
              "email": "nobody@nomail.com"
            }
          ]
        }
      ],
      "end": [
        {
          "location": [
            {
              "gps": "12.453544,77.928379",
              "address": [
                {
                  "name": "my house or door or floor #",
                  "building": "my building name or house #",
                  "locality": "my street name",
                  "city": "Bengaluru",
                  "state": "Karnataka",
                  "country": "IND",
                  "area_code": "560037"
                }
              ]
            }
          ],
          "time921": [
            {
              "timestamp": "2023-06-03T11:35:00.000Z"
            }
          ],
          "instructions922": [
            ...
          ]
        }
      ]
    }
  ]
}
```

<sup>918</sup> pickup time;

<sup>919</sup> PCC, proof of pickup;

<sup>920</sup> pickup authorization (optional);

<sup>921</sup> delivery time;

<sup>922</sup> DCC, proof of delivery;

```
{
  "code":"3",
  "name":"Proof of delivery",
  "short_desc":"value of delivery code",
  "images":
  [
    "https://lsp.com/delivery_image.png",
    "https://lsp.com/rider_location.png"
  ],
  "authorization923":
  {
    "type":"OTP",
    "token":"OTP code",
    "valid_from":"2023-06-03T18:00:00.000Z",
    "valid_to":"2023-06-03T22:00:00.000Z"
  },
  "person":
  {
    "name": "name_of_person"
  },
  "contact":
  {
    "phone": "9886098860",
    "email": "nobody@nomail.com"
  },
  "agent924":
  {
    "name": "agent_name",
    "phone": "9886098860"
  },
  "vehicle925":
  {
    "registration": "3LVJ945"
  },
  {
    "id": "R1",
    "type": "Return",
    "@ondc/org/provider_name": "LSP courier 1",
    "state":
    {
      "descriptor":
      {
        "code": "Return_Delivered926"
      }
    },
    "start":
    {
      "location":
      {
        "gps": "12.453544,77.928379",
        "address":
        {
          "name": "my house or door or floor #",
          "building": "my building name or house #",
          "locality": "my street name",
          "city": "Bengaluru",
          "state": "Karnataka",
          "country": "IND",
          "area_code": "560037"
        }
      }
    },
    "time":
    {
      "timestamp": "2023-06-04T10:15:00.000Z"
    }
  },
  "end":
  {
    "location927":
    {
      "gps": "12.956399,77.636803",
    }
  }
}
```

<sup>923</sup> delivery authorization (optional);

<sup>924</sup> agent details (optional);

<sup>925</sup> vehicle details (for rider) or buyer (for kerbside pickup) - optional;

<sup>926</sup> status updated;

<sup>927</sup> reverse pickup end location, i.e. seller address;

```

"address":
{
  "locality":"Jayanagar 4th Block",
  "city":"Bengaluru",
  "area_code":"560076",
  "state":"KA"
},
"time":
{
  "timestamp928:"2023-06-05T11:00:00.000Z"
},
"tags":
[
  {
    "code":"return_request",
    "list":
    [
      {
        "code":"item_id",
        "value":"I1"
      },
      {
        "code":"item_quantity",
        "value":"1"
      },
      {
        "code":"reason_id",
        "value":"003"
      },
      {
        "code":"reason_desc",
        "value":"detailed description for return"
      },
      {
        "code":"images",
        "value":"url_for_image1,url_for_image2"
      },
      {
        "code":"ttl_approval",
        "value":"PT24H"
      },
      {
        "code":"ttl_reverseqc",
        "value":"P3D"
      },
      {
        "code":"initiated_by",
        "value":"buyerNP.com"
      }
    ]
  },
  {
    "code":"igm_request929",
    "list":
    [
      {
        "code":"id",
        "value":"Issue1930"
      }
    ]
  },
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value":"item"
      },
      {
        "code":"id",
        "value":"I1"
      }
    ]
  }
]

```

<sup>928</sup> timestamp when order is return delivered;

<sup>929</sup> (optional) reference to issue related to return request raised in IGM, this will be added here only after issue resolution and returned in all post-order APIs like /on\_status, /on\_update, /on\_cancel;

<sup>930</sup> IGM issue id;

```

},
{
  "code":"currency",
  "value":"INR"
},
{
  "code":"value",
  "value":"-170.00"
}
]
},
{
  "code":"quote_trail",
  "list":
  [
    {
      "code":"type",
      "value":"tax"
    },
    {
      "code":"id",
      "value":"I1"
    },
    {
      "code":"currency",
      "value":"INR"
    },
    {
      "code":"value",
      "value": "0.00"
    }
  ]
}
],
"quote":
{
  "price":
  {
    "currency":"INR",
    "value":"254.00"
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count":1
      },
      "title":"Atta",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"170.00"
      },
      "item":
      {
        "price":
        {
          "currency":"INR",
          "value":"170.00"
        }
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Delivery charges",
      "@ondc/org/title_type":"delivery",
      "price":
      {
        "currency":"INR",
        "value":"50.00"
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Tax",
      "value": "0.00"
    }
  ]
}

```

```

"@ondc/org/title_type":"tax931,
"price":
{
  "currency":"INR",
  "value":"9.00"
},
"item":
{
  "tags":
  [
    {
      "code":"quote",
      "list":
      [
        {
          "code":"type",
          "value":"fulfillment"
        }
      ]
    }
  ],
  "@ondc/org/item_id":"F1",
  "title":"Packing charges",
  "@ondc/org/title_type":"packing",
  "price":
  {
    "currency":"INR",
    "value":"25.00"
  }
},
{
  "@ondc/org/item_id": "I1",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price":
  {
    "currency": "INR",
    "value": "0.00"
  }
},
{
  "@ondc/org/item_id": "I1",
  "title": "Discount",
  "@ondc/org/title_type": "discount",
  "price":
  {
    "currency": "INR",
    "value": "-10.00"
  }
},
{
  "@ondc/org/item_id": "F1",
  "title": "Convenience Fee",
  "@ondc/org/title_type": "misc",
  "price":
  {
    "currency": "INR",
    "value": "10.00"
  }
},
],
"ttl": "P1D"
},
"payment932":
{
  "uri": "https://ondc.transaction.com/payment",
  "tl_method": "http/get",
  "params":
  {
    "currency": "INR",
    "transaction_id": "3937",
    "amount": "415.00"
  }
}

```

<sup>931</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

<sup>932</sup> optional keys here as defined in /confirm;

```

"status":"PAID",
"type":"ON-ORDER",
"collected_by":"BAP",
"@ondc/org/buyer_app_finder_fee_type":"percent",
"@ondc/org/buyer_app_finder_fee_amount":"3",
"@ondc/org/settlement_details":
[
{
  "settlement_counterparty":"seller-app",
  "settlement_phase":"sale-amount",
  "beneficiary_name":"xxxxx",
  "settlement_type":"upi",
  "upi_address":"gft@oksbi",
  "settlement_bank_account_no":"XXXXXXXXXXXX",
  "settlement_ifsc_code":"XXXXXXXXXX",
  "bank_name":"xxxx",
  "branch_name":"xxxx"
},
],
"documents933":
[
{
  "url":"https://invoice_url",
  "label":"Invoice"
}
],
"created_at":"2023-06-03T09:30:00.000Z",
"updated_at":"2023-06-04T12:00:00.000Z"
}
}
  
```

---

<sup>933</sup> invoice from seller;

/update (settlement trail for refund initiation)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M11",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-05T12:00:00.000Z"
  },
  "message": {
    "update_target": "payment",
    "order": {
      "id": "O1",
      "fulfillments": [
        {
          "id": "R1",
          "type": "Return"
        }
      ],
      "payment": {
        "@ondc/org/settlement_details": [
          {
            "settlement_counterparty": "buyer",
            "settlement_phase": "refund",
            "settlement_type": "upi",
            "settlement_amount": "170.00",
            "settlement_timestamp": "2023-06-05T12:00:00.000Z"
          }
        ]
      }
    }
  }
}
```

### Scenario 3 - Return with liquidation

- Return of items can only be initiated when fulfillment state (for item) is "Order-delivered";
- Return of an item can only be initiated within the return window for the item (as defined in the catalog);
- Return with liquidation can transition through either of the following state changes:
  - Scenario A - Return liquidated:
    - Return\_Initiated -> Liquidated (refund triggered here)
  - Scenario B - Return rejected:
    - Return\_Initiated -> Return\_Rejected

/update (buyer initiated part return request for item I1, qty 1)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M6",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T10:30:00.000Z"
  },
  "message": {
    "update_target": "item",
    "order": {
      "id": "O1",
      "fulfillments": [
        {
          "type": "Return"934,
          "tags": [
            {
              "code": "return_request",
              "list": [
                {
                  "code": "id",
                  "value": "R1"935
                },
                {
                  "code": "item_id",
                  "value": "I1"
                },
                {
                  "code": "parent_item_id"936,
                  "value": "D1"
                },
                {
                  "code": "item_quantity",
                  "value": "1"
                },
                {
                  "code": "reason_id"937,
                  "value": "003"
                },
                {
                  "code": "reason_desc",
                  "value": "detailed description for return"938
                }
              ]
            }
          ]
        }
      ]
    }
  }
}
```

<sup>934</sup> new fulfillment of type "Return" created, with return request initiated from buyer NP; separate return requests can be created for each item (except in cases of make-to-order items where base item & customization can be in same return request), with 1 fulfillment object per return request;

<sup>935</sup> unique id for each return request;

<sup>936</sup> optional - only to be used for make-to-order items;

<sup>937</sup> valid return reason codes are [here](#);

<sup>938</sup> buyer comment;

```
{
  "code": "images",
  "value": "url_for_image1,url_for_image2"
},
{
  "code": "ttl_approval939",
  "value": "PT24H"
},
{
  "code": "ttl_reverseqc940",
  "value": "P3D"
}
]
```

**N.B.**

1. If return reason code is invalid, seller NP can send NACK with error code 30005;

---

<sup>939</sup> ttl for either approving or rejecting the return request;

<sup>940</sup> ttl for initiating reverse qc, reverse qc (if required) should be completed within the return window;

/on\_update (seller NP sends interim status for request)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M6",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T10:30:30.000Z"
  },
  "message": {
    "order941": {
      "id": "O1",
      "state": "Completed",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1"942,
            "quantity": {
              "count": 2
            }
          }
        ],
        "billing": {
          "name": "ONDC buyer",
          "address": {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "email": "nobody@nomail.com",
          "phone": "9886098860",
          "created_at": "2023-06-03T09:00:00.000Z",
          "updated_at": "2023-06-03T09:00:00.000Z"
        },
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "type": "Delivery",
            "tracking": true,
            "@ondc/org/TAT": "PT60M",
            "state": {
              "descriptor": {
                "code": "Order-delivered"
              }
            }
          }
        ]
      }
    }
  }
}
```

<sup>941</sup> shows the current state of order with the new fulfillment for part cancel by merchant;

<sup>942</sup> forward shipment fulfillment;

```

    }
  },
  "start":
  {
    "location":
    {
      "id":"L1",
      "descriptor":
      {
        "name":"ABC Store"
      },
      "gps":"12.956399,77.636803",
      "address":
      {
        "locality":"Jayanagar",
        "city":"Bengaluru",
        "area_code":"560076",
        "state":"KA"
      }
    },
    "time943":
    {
      "timestamp":"2023-06-03T10:25:00.000Z"
    },
    "instructions944":
    {
      "code":"1",
      "name":"Proof of pickup",
      "short_desc":"pickup confirmation code",
      "long_desc":"detailed instructions such as register or counter no for pickup",
      "images":
      [
        "https://lsp.com/pickup_image.png",
        "https://lsp.com/rider_location.png"
      ]
    },
    "authorization945":
    {
      "type":"OTP",
      "token":"OTP code",
      "valid_from":"2023-06-03T12:00:00.000Z",
      "valid_to":"2023-06-03T14:00:00.000Z"
    },
    "contact":
    {
      "phone":"9886098860",
      "email":"nobody@nomail.com"
    }
  },
  "end":
  {
    "location":
    {
      "gps":"12.453544,77.928379",
      "address":
      {
        "name":"my house or door or floor #",
        "building":"my building name or house #",
        "locality":"my street name",
        "city":"Bengaluru",
        "state":"Karnataka",
        "country":"IND",
        "area_code":"560037"
      }
    },
    "time946":
    {
      "timestamp":"2023-06-03T11:35:00.000Z"
    },
    "instructions947":
    {
      "code":"3",
      "name":"Proof of delivery",
      "short_desc":"value of delivery code",
    }
  }
}

```

<sup>943</sup> pickup time;

<sup>944</sup> PCC, proof of pickup;

<sup>945</sup> pickup authorization (optional);

<sup>946</sup> delivery time;

<sup>947</sup> DCC, proof of delivery;

```

  "images": [
    "https://lsp.com/delivery_image.png",
    "https://lsp.com/rider_location.png"
  ],
  "authorization948":
  {
    "type":"OTP",
    "token":"OTP code",
    "valid_from":"2023-06-03T18:00:00.000Z",
    "valid_to":"2023-06-03T22:00:00.000Z"
  },
  "person":
  {
    "name":"name_of_person"
  },
  "contact":
  {
    "phone":"9886098860",
    "email":"nobody@nomail.com"
  },
  "agent949":
  {
    "name":"agent_name",
    "phone":9886098860"
  },
  "vehicle950":
  {
    "registration":"3LVJ945"
  },
  {
    "id":"R1951",
    "type":"Return",
    "state":
    {
      "descriptor":
      {
        "code":"Return_Initiated"
      }
    },
    "tags":
    [
      {
        "code":"return_request",
        "list":
        [
          {
            "code":"id",
            "value":R1
          },
          {
            "code":"item_id",
            "value":I1
          },
          {
            "code":"item_quantity",
            "value":1
          },
          {
            "code":"reason_id",
            "value":003
          },
          {
            "code":"reason_desc",
            "value":detailed description for return
          },
          {
            "code":"images",
            "value":url_for_image1,url_for_image2
          }
        ]
      }
    ]
  }
}

```

<sup>948</sup> delivery authorization (optional);

<sup>949</sup> agent details (optional);

<sup>950</sup> vehicle details (for rider) or buyer (for kerbside pickup) - optional;

<sup>951</sup> new fulfillment created with the same id as return request with status code "Return\_Initiated". If return is approved ("Return\_Approved" or "Liquidated"), the items will be assigned to this fulfillment, else, the status code will change to "Return\_Rejected";

```

    {
      "code":"ttl_approval",
      "value":"PT24H"
    },
    {
      "code":"ttl_reverseqc",
      "value":"P3D"
    },
    {
      "code":"initiated_by",
      "value":"buyerNP.com"
    }
  ]
},
"quote": [
  {
    "price": [
      {
        "currency":"INR",
        "value":424.00
      }
    ],
    "breakup": [
      {
        "@ondc/org/item_id":"I1",
        "@ondc/org/item_quantity": [
          {
            "count":2
          }
        ],
        "title":"Atta",
        "@ondc/org/title_type":"item",
        "price": [
          {
            "currency":"INR",
            "value":340.00
          }
        ],
        "item": [
          {
            "price": [
              {
                "currency":"INR",
                "value":170.00
              }
            ]
          }
        ],
        "@ondc/org/item_id":"F1",
        "title":"Delivery charges",
        "@ondc/org/title_type":"delivery",
        "price": [
          {
            "currency":"INR",
            "value":50.00
          }
        ],
        "@ondc/org/item_id":"F1",
        "title":"Tax",
        "@ondc/org/title_type":"tax952",
        "price": [
          {
            "currency":"INR",
            "value":9.00
          }
        ],
        "item": [
          {
            "tags": [
              {
                "code":"quote",
                "list": [
                  {
                    "code":"type",
                    "value": "P3D"
                  }
                ]
              }
            ]
          }
        ]
      }
    ]
  }
]
}

```

<sup>952</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

    "value":"fulfillment"
  }
}
{
  "@ondc/org/item_id":"F1",
  "title":"Packing charges",
  "@ondc/org/title_type":"packing",
  "price":
  {
    "currency":"INR",
    "value":"25.00"
  },
  {
    "@ondc/org/item_id":"I1",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
    {
      "currency":"INR",
      "value":"0.00"
    },
    {
      "@ondc/org/item_id":"I1",
      "title":"Discount",
      "@ondc/org/title_type":"discount",
      "price":
      {
        "currency":"INR",
        "value":"-10.00"
      },
      {
        "@ondc/org/item_id":"F1",
        "title":"Convenience Fee",
        "@ondc/org/title_type":"misc",
        "price":
        {
          "currency":"INR",
          "value":"-10.00"
        }
      }
    ],
    "ttl":"P1D"
  },
  "payment"953:
  {
    "uri":"https://ondc.transaction.com/payment",
    "tl_method":"http/get",
    "params":
    {
      "currency":"INR",
      "transaction_id":"3937",
      "amount":"424.00"
    },
    "status":"PAID",
    "type":"ON-ORDER",
    "collected_by":"BAP",
    "@ondc/org/buyer_app_finder_fee_type":"percent",
    "@ondc/org/buyer_app_finder_fee_amount":"3",
    "@ondc/org/settlement_details":
    [
      {
        "settlement_counterparty":"seller-app",
        "settlement_phase":"sale-amount",
        "beneficiary_name":"xxxxx",
        "settlement_type":"upi",
        "upi_address":"gft@oksbi",
        "settlement_bank_account_no":"XXXXXXXXXXXX",
        "settlement_ifsc_code":"XXXXXXXXXX",
        "bank_name":"xxxx",
        "branch_name":"xxxx"
      }
    ]
  }
}

```

<sup>953</sup> optional keys here as defined in /confirm;



```
],
  "created_at": "2023-06-03T09:30:00.000Z",
  "updated_at": "2023-06-03T10:31:30.000Z"
}
}
```

/on\_update (seller NP approves request, doesn't want item back)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M7",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T13:30:00.000Z"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Completed",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 1
            },
            "id": "I1",
            "fulfillment_id": "R1",
            "quantity": {
              "count": 1
            }
          }
        ],
        "billing": {
          "name": "ONDC buyer",
          "address": {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "email": "nobody@nomail.com",
          "phone": "9886098860",
          "created_at": "2023-06-03T09:00:00.000Z",
          "updated_at": "2023-06-03T09:00:00.000Z"
        },
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "type": "Delivery",
            "tracking": true,
            "@ondc/org/TAT": "PT60M",
            "state": "Approved"
          }
        ]
      }
    }
  }
}
```

```
{
  "descriptor": [
    {
      "code": "Order-delivered"
    }
  ],
  "start": [
    {
      "location": [
        {
          "id": "L1",
          "descriptor": [
            {
              "name": "ABC Store"
            },
            {
              "gps": "12.956399,77.636803",
              "address": [
                {
                  "locality": "Jayanagar",
                  "city": "Bengaluru",
                  "area_code": "560076",
                  "state": "KA"
                }
              ]
            }
          ],
          "time954*": [
            {
              "timestamp": "2023-06-03T10:25:00.000Z"
            }
          ],
          "instructions955*": [
            {
              "code": "1",
              "name": "Proof of pickup",
              "short_desc": "pickup confirmation code",
              "long_desc": "detailed instructions such as register or counter no for pickup",
              "images": [
                "https://lsp.com/pickup_image.png",
                "https://lsp.com/rider_location.png"
              ]
            }
          ],
          "authorization956*": [
            {
              "type": "OTP",
              "token": "OTP code",
              "valid_from": "2023-06-03T12:00:00.000Z",
              "valid_to": "2023-06-03T14:00:00.000Z"
            }
          ],
          "contact": [
            {
              "phone": "9886098860",
              "email": "nobody@nomail.com"
            }
          ]
        }
      ],
      "end": [
        {
          "location": [
            {
              "gps": "12.453544,77.928379",
              "address": [
                {
                  "name": "my house or door or floor #",
                  "building": "my building name or house #",
                  "locality": "my street name",
                  "city": "Bengaluru",
                  "state": "Karnataka",
                  "country": "IND",
                  "area_code": "560037"
                }
              ]
            }
          ],
          "time957*": [
            {
              "timestamp": "2023-06-03T11:35:00.000Z"
            }
          ],
          "instructions958*": [
            ...
          ]
        }
      ]
    }
  ]
}
```

<sup>954</sup> pickup time;

<sup>955</sup> PCC, proof of pickup;

<sup>956</sup> pickup authorization (optional);

<sup>957</sup> delivery time;

<sup>958</sup> DCC, proof of delivery;

```
{
  "code":"3",
  "name":"Proof of delivery",
  "short_desc":"value of delivery code",
  "images":
  [
    "https://lsp.com/delivery_image.png",
    "https://lsp.com/rider_location.png"
  ],
  "authorization959:
  {
    "type":"OTP",
    "token":"OTP code",
    "valid_from":"2023-06-03T18:00:00.000Z",
    "valid_to":"2023-06-03T22:00:00.000Z"
  },
  "person":
  {
    "name": "name_of_person"
  },
  "contact":
  {
    "phone": "9886098860",
    "email": "nobody@nomail.com"
  },
  "agent960:
  {
    "name": "agent_name",
    "phone": "9886098860"
  },
  "vehicle961:
  {
    "registration": "3LVJ945"
  }
},
{
  "id": "R1",
  "type": "Return",
  "@ondc/org/provider_name": "LSP courier 1",
  "state":
  {
    "descriptor":
    {
      "code": "Liquidated"
    }
  },
  "tags":
  [
    {
      "code": "return_request",
      "list":
      [
        {
          "code": "id",
          "value": "R1"
        },
        {
          "code": "item_id",
          "value": "I1"
        },
        {
          "code": "item_quantity",
          "value": "1"
        },
        {
          "code": "reason_id",
          "value": "003"
        },
        {
          "code": "reason_desc",
          "value": "detailed description for return"
        },
        {
          "code": "images",
        }
      ]
    }
  ]
}
```

<sup>959</sup> delivery authorization (optional);

<sup>960</sup> agent details (optional);

<sup>961</sup> vehicle details (for rider) or buyer (for kerbside pickup) - optional;

```

    "value":"url_for_image1,url_for_image2"
  },
  {
    "code":"ttl_approval",
    "value":"PT24H"
  },
  {
    "code":"ttl_reverseqc",
    "value":"P3D"
  },
  {
    "code":"initiated_by",
    "value":"buyerNP.com"
  }
],
{
  "code":"igm_request962",
  "list":
  [
    {
      "code":"id",
      "value":"Issue1963"
    }
  ],
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value": "item"
      },
      {
        "code":"id",
        "value": "I1"
      },
      {
        "code": "currency",
        "value": "INR"
      },
      {
        "code": "value",
        "value": "-170.00"
      }
    ],
    {
      "code": "quote_trail",
      "list":
      [
        {
          "code": "type",
          "value": "tax"
        },
        {
          "code": "id",
          "value": "I1"
        },
        {
          "code": "currency",
          "value": "INR"
        },
        {
          "code": "value",
          "value": "0.00"
        }
      ]
    }
  ],
  "quote":
  {
    "price":
```

<sup>962</sup> (optional) reference to issue related to return request raised in IGM, this will be added here only after issue resolution and returned in all post-order APIs like /on\_status, /on\_update, /on\_cancel;

<sup>963</sup> IGM issue id;

```
{
  "currency":"INR",
  "value":"254.00"
},
"breakup":
[
  {
    "@ondc/org/item_id":"I1",
    "@ondc/org/item_quantity": {
      "count":1
    },
    "title": "Atta",
    "@ondc/org/title_type": "item",
    "price": {
      "currency": "INR",
      "value": "170.00"
    },
    "item": {
      "price": {
        "currency": "INR",
        "value": "170.00"
      }
    }
  },
  {
    "@ondc/org/item_id": "F1",
    "title": "Delivery charges",
    "@ondc/org/title_type": "delivery",
    "price": {
      "currency": "INR",
      "value": "50.00"
    }
  },
  {
    "@ondc/org/item_id": "F1",
    "title": "Tax",
    "@ondc/org/title_type": "tax964",
    "price": {
      "currency": "INR",
      "value": "9.00"
    },
    "item": {
      "tags": [
        {
          "code": "quote",
          "list": [
            {
              "code": "type",
              "value": "fulfillment"
            }
          ]
        }
      ]
    }
  },
  {
    "@ondc/org/item_id": "F1",
    "title": "Packing charges",
    "@ondc/org/title_type": "packing",
    "price": {
      "currency": "INR",
      "value": "25.00"
    }
  },
  {
    "@ondc/org/item_id": "I1",
    "title": "Tax",
  }
]
```

<sup>964</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

"@ondc/org/title_type":"tax",
"price":
{
  "currency":"INR",
  "value":"0.00"
},
{
  "@ondc/org/item_id":"I1",
  "title":"Discount",
  "@ondc/org/title_type":"discount",
  "price":
  {
    "currency":"INR",
    "value":"-10.00"
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Convenience Fee",
  "@ondc/org/title_type":"misc",
  "price":
  {
    "currency":"INR",
    "value":"10.00"
  }
},
],
"ttl":"P1D"
},
"payment"965:
{
  "uri":"https://ondc.transaction.com/payment",
  "tl_method":"http/get",
  "params":
  {
    "currency":"INR",
    "transaction_id":"3937",
    "amount":"424.00"
  },
  "status":"PAID",
  "type":"ON-ORDER",
  "collected_by":"BAP",
  "@ondc/org/buyer_app_finder_fee_type":"percent",
  "@ondc/org/buyer_app_finder_fee_amount":"3",
  "@ondc/org/settlement_details":
  [
    {
      "settlement_counterparty":"seller-app",
      "settlement_phase":"sale-amount",
      "beneficiary_name":"xxxxx",
      "settlement_type":"upi",
      "upi_address":"gft@oksbi",
      "settlement_bank_account_no":"XXXXXXXXXXXX",
      "settlement_ifsc_code":"XXXXXXXXXX",
      "bank_name":"xxxx",
      "branch_name":"xxxx"
    }
  ]
},
"created_at":"2023-06-03T09:30:00.000Z",
"updated_at":"2023-06-03T13:30:00.000Z"
}
}
}

```

<sup>965</sup> optional keys here as defined in /confirm;

/on\_update (seller NP rejects request)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M7",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T13:30:00.000Z"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Completed",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 2
            }
          }
        ],
        "billing": {
          "name": "ONDC buyer",
          "address": {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "email": "nobody@nomail.com",
          "phone": "9886098860",
          "created_at": "2023-06-03T09:00:00.000Z",
          "updated_at": "2023-06-03T09:00:00.000Z"
        },
        "fulfillments": [
          {
            "id": "F1",
            "@ondc/org/provider_name": "LSP or Provider Name",
            "type": "Delivery",
            "tracking": true,
            "@ondc/org/TAT": "PT60M",
            "state": {
              "descriptor": {
                "code": "Order-delivered"
              }
            },
            "start": {
              "time": "2023-06-03T13:30:00.000Z"
            }
          }
        ]
      }
    }
  }
}
```

```

"location":
{
  "id":"L1",
  "descriptor":
  {
    "name":"ABC Store"
  },
  "gps":"12.956399,77.636803",
  "address":
  {
    "locality":"Jayanagar",
    "city":"Bengaluru",
    "area_code":"560076",
    "state":"KA"
  }
},
"time966":
{
  "timestamp":"2023-06-03T10:25:00.000Z"
},
"instructions967":
{
  "code":"1",
  "name":"Proof of pickup",
  "short_desc":"pickup confirmation code",
  "long_desc":"detailed instructions such as register or counter no for pickup",
  "images":
  [
    "https://lsp.com/pickup_image.png",
    "https://lsp.com/rider_location.png"
  ]
},
"authorization968":
{
  "type":"OTP",
  "token":"OTP code",
  "valid_from":"2023-06-03T12:00:00.000Z",
  "valid_to":"2023-06-03T14:00:00.000Z"
},
"contact":
{
  "phone":"9886098860",
  "email":"nobody@nomail.com"
},
"end":
{
  "location":
  {
    "gps":"12.453544,77.928379",
    "address":
    {
      "name":"my house or door or floor #",
      "building":"my building name or house #",
      "locality":"my street name",
      "city":"Bengaluru",
      "state":"Karnataka",
      "country":"IND",
      "area_code":"560037"
    }
  },
  "time969":
  {
    "timestamp":"2023-06-03T11:35:00.000Z"
  },
  "instructions970":
  {
    "code":"3",
    "name":"Proof of delivery",
    "short_desc":"value of delivery code",
    "images":
    [
      "https://lsp.com/delivery_image.png",
      "https://lsp.com/rider_location.png"
    ]
  }
}

```

<sup>966</sup> pickup time;

<sup>967</sup> PCC, proof of pickup;

<sup>968</sup> pickup authorization (optional);

<sup>969</sup> delivery time;

<sup>970</sup> DCC, proof of delivery;

```

    ],
  "authorization971":
  {
    "type":"OTP",
    "token":"OTP code",
    "valid_from":"2023-06-03T18:00:00.000Z",
    "valid_to":"2023-06-03T22:00:00.000Z"
  },
  "person":
  {
    "name":"name_of_person"
  },
  "contact":
  {
    "phone":"9886098860",
    "email":"nobody@nomail.com"
  }
},
"agent972":
{
  "name":"agent_name",
  "phone":"9886098860"
},
"vehicle973":
{
  "registration":"3LVJ945"
}
},
{
  "id":"R1",
  "type":"Return",
  "@ondc/org/provider_name":"LSP courier 1",
  "state":
  {
    "descriptor":
    {
      "code":"Return_Rejected",
      "short_desc":"return rejection reason code974"
    }
  },
  "tags":
  [
    {
      "code":"return_request",
      "list":
      [
        {
          "code":"id",
          "value":"R1"
        },
        {
          "code":"item_id",
          "value":"I1"
        },
        {
          "code":"item_quantity",
          "value":1
        },
        {
          "code":"reason_id",
          "value":003
        },
        {
          "code":"reason_desc",
          "value":detailed description for return
        },
        {
          "code":"images",
          "value":url_for_image1,url_for_image2
        },
        {
          "code":"ttl_approval",
          "value":PT24H
        },
      ]
    }
  ]
}

```

<sup>971</sup> delivery authorization (optional);

<sup>972</sup> agent details (optional);

<sup>973</sup> vehicle details (for rider) or buyer (for kerbside pickup) - optional;

<sup>974</sup> valid return rejection reason codes are [here](#);

```

{
  "code": "ttl_reverseqc",
  "value": "P3D"
},
{
  "code": "initiated_by",
  "value": "buyerNP.com"975
}
],
{
  "code": "igm_request976",
  "list":
  [
    {
      "code": "id",
      "value": "Issue1977"
    }
  ]
},
"quote":
{
  "price":
  {
    "currency": "INR",
    "value": "424.00"
  },
  "breakup":
  [
    {
      "@ondc/org/item_id": "I1",
      "@ondc/org/item_quantity":
      {
        "count": 2
      },
      "title": "Atta",
      "@ondc/org/title_type": "item",
      "price":
      {
        "currency": "INR",
        "value": "340.00"
      },
      "item":
      {
        "price":
        {
          "currency": "INR",
          "value": "170.00"
        }
      }
    },
    {
      "@ondc/org/item_id": "F1",
      "title": "Delivery charges",
      "@ondc/org/title_type": "delivery",
      "price":
      {
        "currency": "INR",
        "value": "50.00"
      }
    },
    {
      "@ondc/org/item_id": "F1",
      "title": "Tax",
      "@ondc/org/title_type": "tax978",
      "price":
      {
        "currency": "INR",
        "value": "9.00"
      }
    }
  ]
}

```

<sup>975</sup> subscriber id of source NP from which request initiated;

<sup>976</sup> (optional) reference to issue related to return request raised in IGM, this will be added here only after issue resolution and returned in all post-order APIs like /on\_status, /on\_update, /on\_cancel;

<sup>977</sup> IGM issue id;

<sup>978</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

},
"item":
{
  "tags":
  [
    {
      "code":"quote",
      "list":
      [
        {
          "code":"type",
          "value":"fulfillment"
        }
      ]
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Packing charges",
      "@ondc/org/title_type":"packing",
      "price":
      {
        "currency":"INR",
        "value":"25.00"
      }
    },
    {
      "@ondc/org/item_id":"I1",
      "title":"Tax",
      "@ondc/org/title_type":"tax",
      "price":
      {
        "currency":"INR",
        "value":"0.00"
      }
    },
    {
      "@ondc/org/item_id":"I1",
      "title":"Discount",
      "@ondc/org/title_type":"discount",
      "price":
      {
        "currency":"INR",
        "value":"-10.00"
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Convenience Fee",
      "@ondc/org/title_type":"misc",
      "price":
      {
        "currency":"INR",
        "value":"10.00"
      }
    }
  ],
  "ttl":"P1D"
},
"payment979":
{
  "uri":"https://ondc.transaction.com/payment",
  "tl_method":"http/get",
  "params":
  {
    "currency":"INR",
    "transaction_id":"3937",
    "amount":"424.00"
  },
  "status":"PAID",
  "type":"ON-ORDER",
  "collected_by":"BAP",
  "@ondc/org/buyer_app_finder_fee_type":"percent",
  "@ondc/org/buyer_app_finder_fee_amount":"3",
  "@ondc/org/settlement_details":
  [

```

<sup>979</sup> optional keys here as defined in /confirm;

```
{  
    "settlement_counterparty": "seller-app",  
    "settlement_phase": "sale-amount",  
    "beneficiary_name": "xxxxx",  
    "settlement_type": "upi",  
    "upi_address": "gft@oksbi",  
    "settlement_bank_account_no": "XXXXXXXXXXXX",  
    "settlement_ifsc_code": "XXXXXXXXXX",  
    "bank_name": "xxxx",  
    "branch_name": "xxxx"  
}  
]  
,  
"created_at": "2023-06-03T09:30:00.000Z",  
"updated_at": "2023-06-03T13:30:00.000Z"  
}  
}
```

/update (settlement trail for refund initiated)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M8",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-03T13:30:00.000Z"
  },
  "message": {
    "update_target": "payment",
    "order": {
      "id": "O1",
      "fulfillments": [
        {
          "id": "R1",
          "type": "Return"
        }
      ],
      "payment": {
        "@ondc/org/settlement_details": [
          {
            "settlement_counterparty": "buyer",
            "settlement_phase": "refund",
            "settlement_type": "upi",
            "settlement_amount": "170.00",
            "settlement_timestamp": "2023-06-03T13:30:00.000Z"
          }
        ]
      }
    }
  }
}
```

## Scenario 4 - update for fulfillment(s)

- Applicable for fulfillment type "Buyer-Delivery" (i.e. logistics thru buyer NP);
- Can also be used for cancelling fulfillment(s);
- Request for update can be sent for 1 or more existing fulfillment, that hasn't reached terminal<sup>980</sup> state;
- /on\_update response will be solicited, i.e. in response to /update;

### /update

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M10",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-11-17T10:00:00.000Z"
  },
  "message": {
    "update_target": "fulfillment",
    "order": {
      "id": "O1",
      "fulfillments": [
        {
          "id": "F3981",
          "tags": [
            {
              "code": "update_state982",
              "list": [
                {
                  "code": "state",
                  "value": "Order-picked-up983"
                },
                {
                  "code": "reason_id",
                  "value": "007984"
                }
              ]
            },
            {
              "code": "cancel_request985",
              "list": [
                {
                  "code": "retry_count986",
                  "value": "3"
                },
                {
                  "code": "reason_id",
                  "value": "013987"
                }
              ]
            }
          ]
        }
      ]
    }
  }
}
```

<sup>980</sup> terminal state for fulfillment type:

"Delivery", "Buyer-Delivery" - "Order-delivered", "Cancelled";  
 "RTO" - "RTO-Disposed", "RTO-Delivered";  
 "Return" - "Return-Delivered", "Liquidated";

<sup>981</sup> If fulfillment not found, SNP can NACK with error code 50007;

if fulfillment has reached terminal state, SNP can NACK with error code 50008;

<sup>982</sup> request update for fulfillment state;

<sup>983</sup> valid fulfillment state as defined [here](#);

<sup>984</sup> optional - for pickup / delivery failure state codes, applicable reason may be provided from [here](#);

<sup>985</sup> only if cancel request in /update;

<sup>986</sup> optional

<sup>987</sup> valid reason code from [here](#);

```

    {
      "code":"initiated_by",
      "value":"lsp.com988"
    }
  ],
  {
    "code":"update_fulfillment_time989",
    "list":
    [
      {
        "code":"state",
        "value":"Order-picked-up990"
      },
      {
        "code":"timestamp",
        "value":"2023-11-17T09:30:00.000Z991"
      },
      {
        "code":"start_time992,
        "value":"2023-11-17T09:00:00.000Z"
      },
      {
        "code":"end_time993,
        "value":"2023-11-17T09:30:00.000Z"
      }
    ]
  },
  {
    "code":"fulfillment_delay994,
    "list":
    [
      {
        "code":"state",
        "value":"Order-picked-up995"
      },
      {
        "code":"reason_id",
        "value":002996
      },
      {
        "code":"timestamp",
        "value":2023-11-16T22:00:00.000Z"
      }
    ]
  },
  {
    "code":"update_agent_details997,
    "list":
    [
      {
        "code":"name",
        "value":"agent_name"
      },
      {
        "code":"phone",
        "value":9886098860
      }
    ]
  },
  {
    "code":"update_label",
  }

```

<sup>988</sup> subscriber id of NP initiating cancellation;

<sup>989</sup> required if state is "Order-picked-up" or "Order-delivered";

<sup>990</sup> either pickup ("Order-picked-up") or delivery state ("Order-delivered");

<sup>991</sup> pickup or delivery time;

<sup>992</sup> start time for pickup or delivery time slot;

<sup>993</sup> end time for pickup or delivery time slot;

<sup>994</sup> includes pickup / delivery delay:

in case of pickup delay, start time slot (start.time.range.start, start.time.range.end) needs to be updated and the pickup delay reason code and timestamp (when recorded) may be provided here;

in case of delivery delay, end time slot (end.time.range.start, end.time.range.end) needs to be updated and the pickup delay reason code and timestamp (when recorded) may be provided here;

<sup>995</sup> enum for type of delay - "Order-picked-up" (pickup), "Order-delivered" (delivery);

<sup>996</sup> reason codes for [pickup delay](#), [delivery delay](#);

<sup>997</sup> (optional) agent details;

```

"list":
[
  {
    "code":"shipping998",
    "value":"link to downloadable shipping label (required for P2H2P)"
  }
],
{
  "code":"reverseqc_output999",
  "list":
  [
    {
      "code":"P001",
      "value":"Atta"
    },
    {
      "code":"P003",
      "value":"1"
    },
    {
      "code":"Q001",
      "value":"Y1000"
    }
  ],
  {
    "code":"bnp_receivables_claim1001",
    "list":
    [
      {
        "code":"type",
        "value":"delivery1002"
      },
      {
        "code":"currency",
        "value":"INR"
      },
      {
        "code":"value",
        "value":"50.00"
      }
    ],
    {
      "code":"bnp_diff_weight1003",
      "list":
      [
        {
          "code":"unit",
          "value":"kilogram1004"
        },
        {
          "code":"value",
          "value":"1"
        }
      ]
    },
    {
      "code":"bnp_diff_length1005",
      "list":
      [
        {
          ...
        }
      ]
    }
  }
]

```

<sup>998</sup> shipping label, required for hub-based (P2H2P) shipment;

<sup>999</sup> may be provided if fulfillment.type="Return" for the following states - "Order-picked-up" or "Pickup-failed" (only if BNP is handling logistics for return);

codified reverse qc checklist (includes product attributes & questionnaire with answers);

universal checklist is [here](#);

<sup>1000</sup> enum - "Y" (yes) or "N" (no);

<sup>1001</sup> receivables claim by BAP for cancellation charges (wherever SNP/seller liable), weight differential charges;

<sup>1002</sup> fulfillment level charges:

"delivery", "packaging", "misc", "tax" - matching quote.title\_type;

"diff", "tax\_diff" - for weight differential charges (in logistics contract);

<sup>1003</sup> updated weight, only required if bap\_receivables\_claim includes type "diff";

<sup>1004</sup> enum [here](#);

<sup>1005</sup> updated length, only required if bap\_receivables\_claim includes type "diff";

```

    "code":"unit",
    "value":"centimeter1006
  },
  {
    "code":"value",
    "value":"1"
  }
],
{
  "code":"bnp_diff_breadth1007,
  "list":
  [
    {
      "code":"unit",
      "value":"centimeter"
    },
    {
      "code":"value",
      "value":"1"
    }
  ],
  {
    "code":"bnp_diff_height1008,
    "list":
    [
      {
        "code":"unit",
        "value":"centimeter"
      },
      {
        "code":"value",
        "value":"1"
      }
    ]
  }
}
}
  
```

---

<sup>1006</sup> enum [here](#);

<sup>1007</sup> updated breadth, only required if bap\_receivables\_claim includes type "diff";

<sup>1008</sup> updated height, only required if bap\_receivables\_claim includes type "diff";

/on\_update

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_update",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T1",
    "message_id": "M10",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-11-17T10:00:30.000Z"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "In-progress",
      "cancellation1009: {
        "cancelled_by": "buyerNP.com",
        "reason": {
          "id": "004"
        }
      },
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      },
      "items": [
        {
          "id": "I1",
          "fulfillment_id": "F3",
          "quantity": {
            "count": 1
          }
        }
      ],
      "billing": {
        "name": "ONDC buyer",
        "address": {
          "name": "my house or door or floor #",
          "building": "my building name or house #",
          "locality": "my street name",
          "city": "Bengaluru",
          "state": "Karnataka",
          "country": "IND",
          "area_code": "560037"
        },
        "email": "nobody@nomail.com",
        "phone": "9886098860",
        "created_at": "2023-11-17T09:00:00.000Z",
        "updated_at": "2023-11-17T09:00:00.000Z"
      },
      "fulfillments": [
        {
          "id": "F3",
          "@ondc/org/provider_name": "LSP or Provider name",
          "type": "Buyer-Delivery",
          "tracking": false,
        }
      ]
    }
  }
}
```

<sup>1009</sup> optional;

```

"@ondc/org/TAT":"PT60M",
"state1010":
{
  "descriptor":
  {
    "code":"Order-picked-up",
    "short_desc":"0071011",
  }
},
"start":
{
  "location":
  {
    "descriptor":
    {
      "name":"ABC Store"
    },
    "gps":"12.967555,77.749666",
    "address":
    {
      "locality":"Jayanagar",
      "city":"Bengaluru",
      "area_code":"560076",
      "state":"KA"
    }
  }
},
"time1012":
{
  "range":
  {
    "start":"2023-11-17T09:30:00.000Z",
    "end":"2023-11-17T10:00:00.000Z"
  },
  "timestamp":"2023-11-17T09:45:00.000Z"
},
"instructions":
{
  "code":"1",
  "name":"ONDC Order",
  "short_desc":"value of PCC",
  "long_desc":"additional instructions for pickup",
  "images":
  [
    "link to downloadable shipping label \(required for P2H2P\)1013"
  ]
},
"authorization":
{
  "type":"OTP",
  "token":"OTP code",
  "valid_from":"2023-11-17T09:00:00.000Z",
  "valid_to":"2023-11-17T10:00:00.000Z"
},
"contact":
{
  "phone":"9886098860",
  "email":"nobody@nomail.com"
},
"end":
{
  "location":
  {
    "gps":"12.453544,77.928379",
    "address":
    {
      "name":"my house or door or floor #",
      "building":"my building name or house #",
      "locality":"my street name",
      "city":"Bengaluru",
      "state":"Karnataka",
      "country":"IND",
      "area_code":"560037"
    }
  }
}

```

<sup>1010</sup> from /update request;

<sup>1011</sup> applicable reason for pickup / delivery failures;

<sup>1012</sup> from /update request;

<sup>1013</sup> from /update request;

```

"time":
{
  "range":
  {
    "start":"2023-11-17T10:30:00.000Z",
    "end":"2023-11-17T11:00:00.000Z"
  },
  "timestamp":"2023-11-17T11:00:00.000Z"
},
"instructions":
{
  "code":"3",
  "name":"ONDC Order",
  "short_desc":"value of DCC",
  "long_desc":"additional instructions for delivery",
  "images":
  [
    "https://lsp.com/delivery_image.png",
    "https://lsp.com/rider_location.png"
  ]
},
"authorization":
{
  "type":"OTP",
  "token":"OTP code",
  "valid_from":"2023-11-17T10:30:00.000Z",
  "valid_to":"2023-11-17T11:30:00.000Z"
},
"person":
{
  "name": "name_of_person"
},
"contact":
{
  "phone": "9886098860"
},
"agent1014":
{
  "name": "agent_name",
  "phone": "9886098860"
},
"vehicle":
{
  "registration": "3LVJ945"
},
"tags":
[
  {
    "code": "cancel_request1015",
    "list":
    [
      {
        "code": "retry_count",
        "value": "3"
      },
      {
        "code": "rto_id",
        "value": "F3-RTO1016"
      },
      {
        "code": "reason_id",
        "value": "013"
      },
      {
        "code": "initiated_by",
        "value": "lsp.com"
      }
    ]
  },
  {
    "code": "igm_request1017",
    "list":
    [
  
```

<sup>1014</sup> from /update request;

<sup>1015</sup> from /update request (retry\_count, reason\_id, initiated\_by), rto\_id generated by SNP;

<sup>1016</sup> if reason\_id triggers RTO, rto\_id generated by NP;

<sup>1017</sup> (optional) reference to issue related to cancel request raised in IGM, this will be added here only after issue resolution and returned in all post-order APIs like /on\_status, /on\_update, /on\_cancel;

```

{
  "code":"id",
  "value":"Issue1"
}
],
{
  "code":"fulfillment_delay1018",
  "list":
  [
    {
      "code":"state",
      "value":"Order-picked-up"
    },
    {
      "code":"reason_id",
      "value":"002"
    },
    {
      "code":"timestamp",
      "value":"2023-11-16T22:00:00.000Z"
    }
  ]
},
{
  "code": "precancel_state",
  "list":
  [
    {
      "code": "fulfillment_state",
      "value": "Order-picked-up"
    },
    {
      "code": "updated_at",
      "value": "2023-06-03T10:45:00.000Z"
    }
  ],
  {
    "code": "state",
    "list":
    [
      {
        "code": "ready_to_ship",
        "value": "yes"
      }
    ]
  },
  {
    "code": "routing",
    "list":
    [
      {
        "code": "type",
        "value": "P2P"
      }
    ]
  },
  {
    "code": "tracking",
    "list":
    [
      {
        "code": "gps_enabled",
        "value": "yes"
      },
      {
        "code": "url_enabled",
        "value": "no"
      },
      {
        "code": "url",
        "value": "https://sellerNP.com/ondc/tracking_url"
      }
    ]
  }
},

```

---

<sup>1018</sup> from /update request;

```
{
  "code": "reverseqc_output"1019,
  "list":
  [
    {
      "code": "P001",
      "value": "Atta"
    },
    {
      "code": "P003",
      "value": "1"
    },
    {
      "code": "Q001",
      "value": "Y"1020
    }
  ]
},
{
  "code": "bnp_receivables_claim",
  "list":
  [
    {
      "code": "type",
      "value": "delivery"
    },
    {
      "code": "currency",
      "value": "INR"
    },
    {
      "code": "value",
      "value": "50.00"
    }
  ]
},
{
  "code": "bnp_diff_weight",
  "list":
  [
    {
      "code": "unit",
      "value": "kilogram"
    },
    {
      "code": "value",
      "value": "1"
    }
  ]
},
{
  "code": "bnp_diff_length",
  "list":
  [
    {
      "code": "unit",
      "value": "centimeter"
    },
    {
      "code": "value",
      "value": "1"
    }
  ]
},
{
  "code": "bnp_diff_breadth",
  "list":
  [
    {
      "code": "unit",
      "value": "centimeter"
    },
    {
      "code": "value",
      "value": "1"
    }
  ]
}
```

<sup>1019</sup> from /update request;

<sup>1020</sup> enum - "Y" (yes) or "N" (no);

```

    }
},
{
  "code":"bnp_diff_height",
  "list":
  [
    {
      "code":"unit",
      "value":"centimeter"
    },
    {
      "code":"value",
      "value":"1"
    }
  ]
}
1021
{
  "id":"F3-RTO",
  "type":"RTO",
  "state":
  {
    "descriptor":
    {
      "code":"RTO-Initiated"
    }
  },
  "start":
  {
    "time":
    {
      "timestamp":"2023-06-03T11:00:30.000Z"
    }
  },
  "tags":
  [
    {
      "code":"quote_trail",
      "list":
      [
        {
          "code":"type",
          "value":"delivery"
        },
        {
          "code":"id",
          "value":"F1-RTO"
        },
        {
          "code":"currency",
          "value":"INR"
        },
        {
          "code":"value",
          "value":"50.00"
        }
      ]
    },
    {
      "code":"quote_trail",
      "list":
      [
        {
          "code":"type",
          "value":"item"
        },
        {
          "code":"id",
          "value":"I1"
        },
        {
          "code":"currency",
          "value":"INR"
        }
      ]
    }
  ]
}

```

<sup>1021</sup> only if RTO initiated - in this case, item count in item array should be set to 0 (for F3) and new entry created for F3-RTO (similar to /on\_cancel RTO flow);

```

    "code":"value",
    "value":"-340.00"
  }
}
],
"quote":
{
  "price":
  {
    "currency":"INR",
    "value":254
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count": 1
      },
      "title":"Atta",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":170
      },
      "item":
      {
        "price":
        {
          "currency":"INR",
          "value":170
        }
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Delivery charges",
      "@ondc/org/title_type":"delivery",
      "price":
      {
        "currency":"INR",
        "value":50
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Tax",
      "@ondc/org/title_type":"tax",
      "price":
      {
        "currency":"INR",
        "value":9.00
      },
      "item":
      {
        "tags":
        [
          {
            "code":"quote",
            "list":
            [
              {
                "code":"type",
                "value":"fulfillment"
              }
            ]
          }
        ],
        "@ondc/org/item_id":"F1",
        "title":"Packing charges",
        "@ondc/org/title_type":"packing",
        "price":
        {

```

```

    "currency":"INR",
    "value":"25"
  },
  {
    "@ondc/org/item_id":"I1",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
    {
      "currency":"INR",
      "value":"0"
    }
  },
  {
    "@ondc/org/item_id":"I1",
    "title":"Discount",
    "@ondc/org/title_type":"discount",
    "price":
    {
      "currency":"INR",
      "value":"-10"
    }
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Convenience Fee",
    "@ondc/org/title_type":"misc",
    "price":
    {
      "currency":"INR",
      "value":"10"
    }
  }
],
"ttl":"P1D"
},
"payment":
{
  "params":
  {
    "currency":"INR",
    "transaction_id":"3937",
    "amount":"254"
  },
  "status":"PAID",
  "type":"ON-ORDER",
  "collected_by":"BAP",
  "time":
  {
    "timestamp": "2023-11-17T09:30:00.000Z"
  },
  "@ondc/org/buyer_app_finder_fee_type":"percent",
  "@ondc/org/buyer_app_finder_fee_amount":"3",
  "@ondc/org/settlement_basis":"delivery",
  "@ondc/org/settlement_window":"P1D",
  "@ondc/org/withholding_amount":"10.00",
  "@ondc/org/settlement_details":
  [
    {
      "settlement_counterparty":"seller-app",
      "settlement_phase":"sale-amount",
      "beneficiary_name":"xxxxx",
      "settlement_reference":"XXXXX",
      "settlement_status":"PAID",
      "settlement_timestamp":"2023-11-17T10:30:00.000Z",
      "settlement_type":"upi",
      "upi_address":"gft@oksbi",
      "settlement_bank_account_no":"XXXXXXXXXXXX",
      "settlement_ifsc_code":"XXXXXXXXX",
      "bank_name":"xxxx",
      "branch_name":"xxxx"
    },
    {
      "settlement_counterparty":"buyer",
      "settlement_phase":"refund",
      "settlement_type":"upi",
      "settlement_amount":"1000",
      "settlement_timestamp":"2023-11-17T10:30:00.000Z"
    }
  ]
}

```



```
},
  "documents": [
    {
      "url": "https://invoice_url",
      "label": "Invoice"
    }
  ],
  "created_at": "2023-11-17T09:30:00.000Z",
  "updated_at": "2023-11-17T10:00:30.000Z"
}
```

## Rules for part return & cancel

1. An order is frozen at its terminal state ("Completed", "Cancelled"), with no further updates, except for the following:
  - a. With order.state = "Completed", there may be return of 1 or more items, within the return window for these items. For every return request, a separate fulfillment is created to track the return request and the refund associated with the return request;
  - b. Order & fulfillment state, for forward shipment fulfillment, is set to "Cancelled", whenever RTO is initiated for an order;
  - c. Changes to the order due to return / RTO are defined in the contract for the corresponding APIs;
2. Response for part-return should have exactly the same number of items for which return is requested;
3. Order value (quote.price.value) cannot increase through /on\_update. If order value decreases, it should be due to decrease in item quantity (quote.breakup[]."@ondc/org/item\_quantity".count) for "@ondc/org/title\_type" of "item";
4. Quote trail is immutable after it is added to the order at the refund trigger point;
5. /on\_update should return the same information as /on\_status i.e. the audit trail for items (including returns, cancels processed or in-progress), the current state of order items & fulfillment, order quote and breakup, settlement trail (if available);
6. /on\_update (solicited or unsolicited) should be called whenever there is a change in the order details (e.g. due to buyer return or cancellation). Whenever there is a status change, an unsolicited /on\_status call should be made;
7. Batching of order updates & status changes should not be done;

## /cancel

```
{
  "context": {
    "domain": "ONDC:RET10",
    "country": "IND",
    "city": "std:080",
    "action": "cancel",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M10",
    "timestamp": "2023-06-03T11:00:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order_id": "O1",
    "cancellation_reason_id": "0061022",
    "descriptor1023: {
      "name": "fulfillment",
      "short_desc": "F11024",
      "tags1025: [
        {
          "code": "params",
          "list": [
            {
              "code": "force1026",
              "value": "no1027"
            },
            {
              "code": "ttl_response1028",
              "value": "PT1H"
            }
          ]
        }
      }
    }
  }
}
```

### N.B.

1. If cancellation\_reason\_id is invalid (i.e. doesn't exist or isn't applicable for buyer NP), seller NP can NACK /cancel with error code 30012;
2. Cancellation can be initiated by buyer NP on fulfillment TAT breach with cancellation\_reason\_id "006" and with the appropriate fulfillment id as shown above. If seller NP determines that fulfillment TAT is not breached, they can NACK /cancel with error code 30014;
3. **Force cancellation flow [here](#):**

<sup>1022</sup> cancellation reason codes are defined [here](#), use "006" for cancellation of fulfillment for TAT breach;

<sup>1023</sup> optional, only if fulfillment is being cancelled;

<sup>1024</sup> fulfillment id for cancellation of fulfillment for TAT breach;

<sup>1025</sup> optional may be used at BNP discretion;

<sup>1026</sup> as per force cancellation flow above;

<sup>1027</sup> enum - "yes", "no";

<sup>1028</sup> TAT for valid cancellation response (ISO8601 Duration);

## /on\_cancel

```
{
  "context": {
    "domain": "ONDC:RET10",
    "country": "IND",
    "city": "std:080",
    "action": "on_cancel",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M10",
    "timestamp": "2023-06-03T11:00:30.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Cancelled1029",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 0
            },
            "id": "I1",
            "fulfillment_id": "C1",
            "quantity": {
              "count": 2
            }
          }
        ],
        "billing": {
          "name": "ONDC buyer",
          "address": {
            "name": "my house or door or floor #",
            "building": "my building name or house #",
            "locality": "my street name",
            "city": "Bengaluru",
            "state": "Karnataka",
            "country": "IND",
            "area_code": "560037"
          },
          "email": "nobody@nomail.com",
          "phone": "9886098860",
          "created_at": "2023-06-03T09:00:00.000Z",
          "updated_at": "2023-06-03T09:00:00.000Z"
        },
        "cancellation1030: {
          "cancelled_by": "buyerNP.com",
          "reason": "
        }
      }
    }
  }
}
```

<sup>1029</sup> order state will be updated to "Cancelled" if the order is cancelled;

<sup>1030</sup> to be used only if order is cancelled;

```

{
  "id":"006"
},
"fulfillments":
[
  {
    "id":"F1",
    "@ondc/org/provider_name":"LSP or Provider Name",
    "state":
    {
      "descriptor":
      {
        "code":"Cancelled"
      }
    },
    "type":"Delivery",
    "tracking":true,
    "@ondc/org/TAT":"PT60M",
    "start":
    {
      "location":
      {
        "id":"L1",
        "descriptor":
        {
          "name":"ABC Store"
        },
        "gps":"12.956399,77.636803",
        "address":
        {
          "locality":"Jayanagar",
          "city":"Bengaluru",
          "area_code":"560076",
          "state":"KA"
        }
      },
      "time":
      {
        "range":
        {
          "start":"2023-06-03T10:00:00.000Z",
          "end":"2023-06-03T10:30:00.000Z"
        }
      }
    },
    "contact":
    {
      "phone":"9886098860",
      "email":"nobody@nomail.com"
    }
  },
  "end":
  {
    "location":
    {
      "gps":"12.453544,77.928379",
      "address":
      {
        "name":"my house or door or floor #",
        "building":"my building name or house #",
        "locality":"my street name",
        "city":"Bengaluru",
        "state":"Karnataka",
        "country":"IND",
        "area_code":"560037"
      }
    },
    "time":
    {
      "range":
      {
        "start":"2023-06-03T11:00:00.000Z",
        "end":"2023-06-03T11:30:00.000Z"
      }
    },
    "person":
    {
      "name":"name_of_person"
    },
    "contact":
    {
  
```

```

    "phone":"9886098860",
    "email":"nobody@nomail.com"
  },
  "tags1031":
  [
    {
      "code":"cancel_request",
      "list":
      [
        {
          "code":"reason_id",
          "value":"006"
        },
        {
          "code":"initiated_by",
          "value":"buyerNP.com"
        }
      ]
    },
    {
      "code":"igm_request1032",
      "list":
      [
        {
          "code":"id",
          "value":"Issue1"
        }
      ]
    },
    {
      "code":"precancel_state1033",
      "list":
      [
        {
          "code":"fulfillment_state",
          "value":"Order-picked-up"
        },
        {
          "code":"updated_at",
          "value":"2023-06-03T10:45:00.000Z"
        }
      ]
    }
  ],
  {
    "id":"C1",
    "type":"Cancel",
    "state":
    {
      "descriptor":
      {
        "code":"Cancelled"
      }
    },
    "tags":
    [
      {
        "code":"quote_trail",
        "list":
        [
          {
            "code":"type",
            "value":"item"
          },
          {
            "code":"id",
            "value":"I1"
          },
          {
            "code":"currency",
            "value":"INR"
          }
        ]
      }
    ]
  }
}

```

<sup>1031</sup> only if fulfillment is cancelled;

<sup>1032</sup> (optional) reference to issue related to cancel request raised in IGM, this will be added here only after issue resolution and returned in all post-order APIs like /on\_status, /on\_update, /on\_cancel;

<sup>1033</sup> pre-cancel state of fulfillment, i.e. state of fulfillment prior to cancellation;

```

    {
      "code":"value",
      "value":"-340.00"
    }
  ]
},
"quote":
{
  "price1034":
  {
    "currency":"INR",
    "value":"84.00"
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count":0
      },
      "title":"Atta",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"0.00"
      },
      "item":
      {
        "price":
        {
          "currency":"INR",
          "value":"170.00"
        }
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Delivery charges",
      "@ondc/org/title_type":"delivery",
      "price":
      {
        "currency":"INR",
        "value":"50.00"
      }
    },
    {
      "@ondc/org/item_id":"F1",
      "title":"Tax",
      "@ondc/org/title_type":"tax1035",
      "price":
      {
        "currency":"INR",
        "value":"9.00"
      },
      "item":
      {
        "tags":
        [
          {
            "code":"quote",
            "list":
            [
              {
                "code":"type",
                "value":"fulfillment"
              }
            ]
          }
        ],
      }
    }
  ]
},

```

<sup>1034</sup> updated order value including cancellation charges (delivery + packing charges);

<sup>1035</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```
{
  "@ondc/org/item_id": "F1",
  "title": "Packing charges",
  "@ondc/org/title_type": "packing",
  "price":
  {
    "currency": "INR",
    "value": "25.00"
  }
},
{
  "@ondc/org/item_id": "I1",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price":
  {
    "currency": "INR",
    "value": "0.00"
  }
},
  "ttl": "P1D"
},
"payment":
{
  "uri": "https://ondc.transaction.com/payment",
  "tl_method": "http/get",
  "params":
  {
    "currency": "INR",
    "transaction_id": "3937",
    "amount": "424.00"
  },
  "status": "PAID",
  "type": "ON-ORDER",
  "collected_by": "BAP",
  "@ondc/org/buyer_app_finder_fee_type": "percent",
  "@ondc/org/buyer_app_finder_fee_amount": "3",
  "@ondc/org/settlement_details":
  [
    {
      "settlement_counterparty": "seller-app",
      "settlement_phase": "sale-amount",
      "beneficiary_name": "xxxxx",
      "settlement_type": "upi",
      "upi_address": "gft@oksbi",
      "settlement_bank_account_no": "XXXXXXXXXXXX",
      "settlement_ifsc_code": "XXXXXXXXXX",
      "bank_name": "xxxx",
      "branch_name": "xxxx"
    }
  ]
},
"created_at": "2023-06-03T09:30:00.000Z",
"updated_at": "2023-06-03T11:00:30.000Z"
}
}
```

#### N.B.

1. Merchant can initiate cancellation of order using /on\_cancel by setting order state & all fulfillment states to "Cancelled";
2. Merchant can cancel fulfillment using /on\_cancel by setting corresponding fulfillment state to "Cancelled";
3. Buyer NP can initiate cancellation either for order or fulfillment; **for cancellation of order, all corresponding fulfillments need to be cancelled;**
4. If cancellation\_reason\_id is not valid for unsolicited /on\_cancel (i.e. not one of the cancellation reasons that can be used by seller NP), buyer app may NACK /on\_cancel with error code 22502;
5. If updated quote does not match the original order value with the cancellation terms applied, buyer NP may NACK /on\_cancel with error code 22503;

## /on\_cancel (RTO flow)

RTO will be initiated at the fulfillment level due to either of the following:

- buyer does not accept the fulfillment;
- buyer cannot be located for their fulfillment to be delivered;
- merchant / LSP inability to deliver because of natural calamities, vehicle breakdown, etc.;

In case of RTO:

- every fulfillment will identify whether RTO results in actual return to origin;
- buyers are within their rights to RTO, if the fulfillment is delivered beyond the fulfillment TAT, thus constituting a TAT breach;
- in the event of RTO, without any breach of fulfillment TAT, the Logistics Buyer NP may recover both the forward shipping cost as well as RTO costs from the Retail Buyer NP. In this case, the Logistics Provider may be expected to help establish that the buyer refused to accept or was not available / couldn't be contacted to accept delivery;

RTO process flow is as follows:

- LSP tries to deliver the order to the buyer (it is assumed that a certain number of retries are built in for all deliveries except immediate delivery). Typical number of retries is 3 per industry standard;
- Buyer does not accept the order or is unreachable / unavailable at the mentioned shipping address on attempt to deliver the order;
- LSP initiates cancellation of logistics order, through /on\_cancel, and provides specific reason code as defined [here](#) and AWB no (for forward shipment, if applicable);
- Calling Logistics /on\_cancel with reason code (that triggers RTO as defined in the reason codes) will initiate RTO and result in the following:
  - addition of new fulfillment record for the logistics order, with fulfillment start location / time, fulfillment state set to "RTO-Initiated";
  - quote for RTO may be added to the original quote (for forward shipment), matching the quote provided in logistics /on\_search;
  - order state will be set to "Cancelled";
- If LSP initiates a valid RTO request (as determined by the reason code and above info provided), logistics buyer NP has to accept the request;
- Logistics /on\_cancel will also result in cascaded retail /on\_cancel request, for the fulfillment, and include the new fulfillment record for RTO, fulfillment start location / time, fulfillment state, order state and quote for RTO (if buyer has to pay for the RTO cost as per the cancellation reason code);
- After RTO delivery is completed, LSP updates fulfillment status for RTO fulfillment (to "RTO-Delivered"), fulfillment end time, etc. through /on\_status and this is cascaded to the retail order;
- In case of RTO without return, fulfillment state will be updated to "RTO-Disposed";

```
{
  "context": {
    "domain": "ONDC:RET10",
    "country": "IND",
    "city": "std:080",
    "action": "on_cancel",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M10",
    "timestamp": "2023-06-03T11:00:30.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Cancelled"1036,
      "provider": " "
    }
  }
}
```

<sup>1036</sup> for single fulfillment order, terminal state will be "Cancelled" (if RTO is initiated); for multi-fulfillment order, terminal state will depend on the status of the other fulfillment(s);

```

{
  "id": "P1",
  "locations":
  [
    {
      "id": "L1"
    }
  ],
  "items1037":
  [
    {
      "id": "I1",
      "fulfillment_id": "F1",
      "quantity":
      {
        "count": 0
      }
    },
    {
      "id": "I1",
      "fulfillment_id": "F1-RTO",
      "quantity":
      {
        "count": 2
      }
    }
  ],
  "billing":
  {
    "name": "ONDC buyer",
    "address":
    {
      "name": "my house or door or floor #",
      "building": "my building name or house #",
      "locality": "my street name",
      "city": "Bengaluru",
      "state": "Karnataka",
      "country": "IND",
      "area_code": "560037"
    },
    "email": "nobody@nomail.com",
    "phone": "9886098860",
    "created_at": "2023-06-03T09:00:00.000Z",
    "updated_at": "2023-06-03T09:00:00.000Z"
  },
  "fulfills":
  [
    {
      "id": "F1",
      "@ondc/org/provider_name": "LSP or Provider Name",
      "type": "Delivery",
      "tracking": true,
      "@ondc/org/TAT": "PT60M",
      "state":
      {
        "descriptor":
        {
          "code": "Cancelled1038"
        }
      },
      "start":
      {
        "location":
        {
          "id": "L1",
          "descriptor":
          {
            "name": "ABC Store"
          },
          "gps": "12.956399,77.636803",
          "address":
          {
            "locality": "Jayanagar",
            "city": "Bengaluru",
            "area_code": "560076",
            "state": "KA"
          }
        }
      }
    }
  ]
}

```

<sup>1037</sup> items reassigned from forward fulfillment to RTO fulfillment;

<sup>1038</sup> forward fulfillment is cancelled and RTO reasons added;

```

    }
},
"time":
{
  "range":
  {
    "start":"2023-06-03T10:00:00.000Z",
    "end":"2023-06-03T10:30:00.000Z"
  }
},
"contact":
{
  "phone":"9886098860",
  "email":"nobody@nomail.com"
},
"end":
{
  "location":
  {
    "gps":"12.453544,77.928379",
    "address":
    {
      "name":"my house or door or floor #",
      "building":"my building name or house #",
      "locality":"my street name",
      "city":"Bengaluru",
      "state":"Karnataka",
      "country":"IND",
      "area_code":"560037"
    }
  }
},
"time":
{
  "range":
  {
    "start":"2023-06-03T11:00:00.000Z",
    "end":"2023-06-03T11:30:00.000Z"
  }
},
"person":
{
  "name":"name_of_person"
},
"contact":
{
  "phone":"9886098860",
  "email":"nobody@nomail.com"
},
"tags":
[
  {
    "code":"cancel_request",
    "list":
    [
      {
        "code":"retry_count",
        "value":"3"
      },
      {
        "code":"rto_id",
        "value":"F1-RTO"
      },
      {
        "code":"reason_id",
        "value":"013"
      },
      {
        "code":"initiated_by",
        "value":"lsp.com"
      }
    ]
  },
  {
    "code":"igm_request1039",1039
    "list":
  }
]
}

```

<sup>1039</sup> (optional) reference to issue related to cancel request raised in IGM, this will be added here only after issue resolution and returned in all post-order APIs like /on\_status, /on\_update, /on\_cancel;

```
[
  {
    "code": "id",
    "value": "Issue1"
  }
],
{
  "code": "precancel_state"1040,
  "list":
  [
    {
      "code": "fulfillment_state",
      "value": "Order-picked-up"
    },
    {
      "code": "updated_at",
      "value": "2023-06-03T10:45:00.000Z"
    }
  ]
},
{
  "id": "F1-RTO",
  "type": "RTO",
  "state":
  {
    "descriptor":
    {
      "code": "RTO-Initiated"1041
    }
  },
  "start":
  {
    "time":
    {
      "timestamp": "2023-06-03T11:00:30.000Z"
    },
    "location1042":
    {
      "gps": "12.453544,77.928379",
      "address":
      {
        "name": "my house or door or floor #",
        "building": "my building name or house #",
        "locality": "my street name",
        "city": "Bengaluru",
        "state": "Karnataka",
        "country": "IND",
        "area_code": "560037"
      }
    }
  },
  "end":
  {
    "time1043":
    {
      "timestamp": "2023-06-04T11:00:30.000Z"
    },
    "location1044":
    {
      "id": "L1",
      "descriptor":
      {
        "name": "ABC Store"
      },
      "gps": "12.956399,77.636803",
      "address":
      {
        "locality": "Jayanagar",
        "city": "Bengaluru",
      }
    }
  }
}
```

<sup>1040</sup> pre-cancel state of fulfillment, i.e. state of fulfillment prior to cancellation;

<sup>1041</sup> enum - "RTO-Initiated", "RTO-Delivered", "RTO-Disposed";

<sup>1042</sup> location from which RTO initiated;

<sup>1043</sup> to be populated for RTO-Delivered or RTO-Disposed;

<sup>1044</sup> location for RTO-Delivered (may not be same as start location for forward shipment);

```

    "area_code":"560076",
    "state":"KA"
  }
},
"tags":
[
  {
    "code":"quote_trail1045",
    "list":
    [
      {
        "code":"type",
        "value":"delivery"
      },
      {
        "code":"id",
        "value":"F1-RTO"
      },
      {
        "code":"currency",
        "value":"INR"
      },
      {
        "code":"value",
        "value":"50.00"
      }
    ]
  },
  {
    "code":"quote_trail",
    "list":
    [
      {
        "code":"type",
        "value":"item"
      },
      {
        "code":"id",
        "value":"I1"
      },
      {
        "code":"currency",
        "value":"INR"
      },
      {
        "code":"value",
        "value":"-340.00"
      }
    ]
  }
],
"quote":
{
  "price1046":
  {
    "currency":"INR",
    "value":"143.00"
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count":01047
      },
      "title":"Atta",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":"INR",
        "value":"0.00"
      }
    }
  ]
}

```

<sup>1045</sup> quote trail for RTO fulfillment will include additional costs charged (+ve) or existing costs refunded (-ve);

<sup>1046</sup> updated order value including cancellation charges (delivery + packing charges);

<sup>1047</sup> for make-to-order items, quantity may not be changed;

```

"item":
{
  "price":
  {
    "currency":"INR",
    "value":"170.00"
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Delivery charges",
  "@ondc/org/title_type":"delivery",
  "price":
  {
    "currency":"INR",
    "value":"50.00"
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Tax",
  "@ondc/org/title_type":"tax1048",
  "price":
  {
    "currency":"INR",
    "value":"9.00"
  },
  "item":
  {
    "tags":
    [
      {
        "code":"quote",
        "list":
        [
          {
            "code":"type",
            "value":"fulfillment"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"F1-RTO",
  "title":"Delivery charges",
  "@ondc/org/title_type":"delivery",
  "price":
  {
    "currency":"INR",
    "value":"50.00"
  }
},
{
  "@ondc/org/item_id":"F1-RTO",
  "title":"Tax",
  "@ondc/org/title_type":"tax1049",
  "price":
  {
    "currency":"INR",
    "value":"9.00"
  },
  "item":
  {
    "tags":
    [
      {
        "code":"quote",
        "list":
        [
          {
            "code":"type",
            "value":"fulfillment"
          }
        ]
      }
    ]
  }
}

```

<sup>1048</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

<sup>1049</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

        }
      ],
      {
        "@ondc/org/item_id":"F1",
        "title":"Packing charges",
        "@ondc/org/title_type":"packing",
        "price":
        {
          "currency":"INR",
          "value":"25.00"
        },
        {
          "@ondc/org/item_id":"I1",
          "title":"Tax",
          "@ondc/org/title_type":"tax",
          "price":
          {
            "currency":"INR",
            "value":"0.00"
          }
        }
      ],
      "ttl":"P1D"
    },
    "payment":
    {
      "uri":"https://ondc.transaction.com/payment",
      "tl_method":"http/get",
      "params":
      {
        "currency":"INR",
        "transaction_id":"3937",
        "amount":"424.00"
      },
      "status":"PAID",
      "type":"ON-ORDER",
      "collected_by":"BAP",
      "@ondc/org/buyer_app_finder_fee_type":"percent",
      "@ondc/org/buyer_app_finder_fee_amount":"3",
      "@ondc/org/settlement_details":
      [
        {
          "settlement_counterparty":"seller-app",
          "settlement_phase":"sale-amount",
          "beneficiary_name":"xxxxx",
          "settlement_type":"upi",
          "upi_address":"gft@oksbi",
          "settlement_bank_account_no":"XXXXXXXXXXXX",
          "settlement_ifsc_code":"XXXXXXXXXX",
          "bank_name":"xxxx",
          "branch_name":"xxxx"
        }
      ],
      "created_at":"2023-06-03T09:30:00.000Z",
      "updated_at":"2023-06-03T11:00:30.000Z"
    }
  }
}

```

## /track

```
{
  "context": {
    "domain": "ONDC:RET111050",
    "action": "track",
    "country": "IND",
    "city": "std:080",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M11",
    "timestamp": "2023-06-04T06:00:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order_id": "O1"
  }
}
```

### N.B.

1. Buyer NP will need to call /track to poll near real-time gps coordinates for the rider;
2. /track should be called only after the rider is assigned for the order **and preferably after "gps\_enabled" is set to "yes", for the corresponding fulfillment, in /on\_status.**
3. **For non-hyperlocal tracking, SNP should set "url\_enabled" to "yes" and "tracking\_url", for the corresponding fulfillment, in /on\_status;**
4. If /track is called for an order for which the rider is not yet assigned or rider is assigned but fulfillment tracking **is not yet enabled (i.e. "gps\_enabled" and / or "url\_enabled" is "no")** or disabled, the seller NP must return NACK with error code 40005;

---

<sup>1050</sup> updated domains defined [here](#)

## /on\_track

```
{
  "context": {
    "domain": "ONDC:RET11",
    "action": "on_track",
    "country": "IND",
    "city": "std:080",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M11",
    "timestamp": "2023-06-04T06:00:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "tracking": {
      "id": "F11051",
      "location": {
        "gps1052": "12.974002,77.613458",
        "time": {
          "timestamp1053": "2023-06-02T06:20:00.000Z"
        },
        "updated_at1054": "2023-06-02T06:30:00.000Z"
      },
      "url": "https://sellerNP.com/ondc/tracking/F11055",
      "status1056": "active",
      "tags1057": [
        {
          "code": "order1058",
          "list": [
            {
              "code": "id",
              "value": "O1"
            }
          ]
        },
        {
          "code": "config1059",
          "list": [
            {
              "code": "attr",
              "value": "tracking.location.gps1060"
            },
            {
              "code": "type",
              "value": "live_poll1061"
            }
          ]
        },
        {
          "code": "path",
        }
      ]
    }
  }
}
```

<sup>1051</sup> matches the fulfillment id for which tracking is enabled. In case multiple fulfillments have tracking enabled, the id should match the fulfillment for which rider has been assigned and for multiple fulfillments, separate /on\_track response can be sent with the same transaction\_id and corresponding fulfillment id;

<sup>1052</sup> gps coordinates of rider;

<sup>1053</sup> time for which gps coordinates sent;

<sup>1054</sup> time when gps coordinates updated;

<sup>1055</sup> URL for non-hyperlocal tracking;

<sup>1056</sup> enum - "active", "inactive"; if inactive, "location" will be empty. If tracking is enabled, status should become "active" when rider is assigned;

<sup>1057</sup> optional - path as a sequence of gps lat/lng coordinates;

<sup>1058</sup> optional, order id being tracked;

<sup>1059</sup> optional - whether tracking is by gps (point-to-point hyperlocal) or url (non-hyperlocal);

<sup>1060</sup> can be "tracking.location.gps", "tracking.url";

<sup>1061</sup> enum - "live\_poll" (for attr="tracking.location.gps"), "deferred" (for attr="tracking.url");

```

"list":
[
  {
    "code":"lat_lng",
    "value":"12.974002,77.613458"
  },
  {
    "code":"sequence",
    "value":"1"
  }
],
{
  "code":"path",
  "list":
  [
    {
      "code":"lat_lng",
      "value":"12.974077,77.613600"
    },
    {
      "code":"sequence",
      "value":"2"
    }
  ],
  {
    "code":"path",
    "list":
    [
      {
        "code":"lat_lng",
        "value":"12.974098,77.613699"
      },
      {
        "code":"sequence",
        "value":"3"
      }
    ]
  }
}
]
}
  
```

**N.B.**

1. To enable tracking:
  - Tracking should be enabled for the fulfillment for the order;
  - Tracking becomes active after rider is assigned for the order and becomes inactive after the order is delivered;
  - /on\_track will be solicited response as explained above;
  - /track request & /on\_track response are cascaded from retail seller NP to LSP & back;

## /status

```
{  
  "context":  
  {  
    "domain": "ONDC:RET10",  
    "action": "status",  
    "core_version": "1.2.0",  
    "bap_id": "buyerNP.com",  
    "bap_uri": "https://buyerNP.com/ondc",  
    "bpp_id": "sellerNP.com",  
    "bpp_uri": "https://sellerNP.com/ondc",  
    "transaction_id": "T2",  
    "message_id": "M12",  
    "city": "std:080",  
    "country": "IND",  
    "timestamp": "2023-06-04T10:00:00.000Z",  
    "ttl": "PT30S"  
  },  
  "message":  
  {  
    "order_id": "O1"  
  }  
}
```

---

<sup>1062</sup> status for order can be queried using same transaction id used for order /confirm;

## /on\_status

### Scenarios

#### 1. For make-to-order product - Domino's Pizza (response to /confirm above)

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_status",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M12",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-04T10:00:30.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Completed1063",
      "cancellation1064: {
        "cancelled_by": "buyerNP.com",
        "reason": {
          "id": "004"
        }
      },
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ],
        "items": [
          {
            "id": "I1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 1
            },
            "parent_item_id": "DI1",
            "tags": [
              {
                "code": "type",
                "list": [
                  {
                    "code": "type",
                    "value": "item"
                  }
                ]
              }
            ],
            "id": "C1",
            "fulfillment_id": "F1",
            "quantity": {
              "count": 1
            }
          }
        ]
      }
    }
  }
}
```

<sup>1063</sup> enum - "Created", "Accepted", "In-progress", "Completed", "Cancelled";

<sup>1064</sup> required if order state is "Cancelled";

```

"quantity":
{
  "count":1
},
"parent_item_id":"DI1",
"tags":
[
  {
    {
      "code":"type",
      "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
    },
    {
      "code":"parent",
      "list":
        [
          {
            "code":"id",
            "value":"CG1"
          }
        ]
    }
  ],
  {
    "id":"C7",
    "fulfillment_id":"F1",
    "quantity":
    {
      "count":1
    },
    "parent_item_id":"DI1",
    "tags":
    [
      {
        {
          "code":"type",
          "list":
            [
              {
                "code":"type",
                "value":"customization"
              }
            ]
        },
        {
          "code":"parent",
          "list":
            [
              {
                "code":"id",
                "value":"CG2"
              }
            ]
        }
      ],
      {
        "id":"C14",
        "fulfillment_id":"F1",
        "quantity":
        {
          "count":1
        },
        "parent_item_id":"DI1",
        "tags":
        [
          {
            {
              "code":"type",
              "list":
                [
                  {
                    "code":"type",
                    "value":"customization"
                  }
                ]
            },
            {
              "code":"parent",
              "list":
                [
                  {
                    "code":"id",
                    "value":"CG3"
                  }
                ]
            }
          ]
        }
      }
    ]
  }
]
}
  
```

```
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG3"
    }
  ]
},
{
  "id":"C16",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI1",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    }
  ],
  "id":"I1",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"item"
        }
      ]
    }
  ],
  "id":"C2",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {

```

```

    "code":"type",
    "value":"customization"
  }
},
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG1"
    }
  ]
},
{
  "id":"C7",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
    }
  ]
},
{
  "id":"C14",
  "fulfillment_id":"F1",
  "quantity":
  {
    "count":1
  },
  "parent_item_id":"DI2",
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ]
    },
    {
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG3"
        }
      ]
    }
  ]
},

```

```
{
  "id": "C15",
  "fulfillment_id": "F1",
  "quantity": {
    "count": 1
  },
  "parent_item_id": "DI2",
  "tags": [
    {
      "code": "type",
      "list": [
        {
          "code": "type",
          "value": "customization"
        }
      ]
    },
    {
      "code": "parent",
      "list": [
        {
          "code": "id",
          "value": "CG3"
        }
      ]
    }
  ],
  "billing": {
    "name": "ONDC buyer",
    "address": {
      "name": "my house or door or floor #",
      "building": "my building name or house #",
      "locality": "my street name",
      "city": "Bengaluru",
      "state": "Karnataka",
      "country": "IND",
      "area_code": "560037"
    },
    "email1065": "nobody@nomail.com",
    "phone": "9886098860",
    "created_at1066": "2023-06-03T09:00:00.000Z",
    "updated_at": "2023-06-03T09:00:00.000Z"
  },
  "fulfillments": [
    {
      "id": "F1",
      "@ondc/org/provider_name": "LSP or Provider name",
      "type": "Delivery",
      "tracking": false,
      "@ondc/org/TAT": "PT60M",
      "state": {
        "descriptor": {
          "code": "Order-delivered"1067
        }
      },
      "start": {
        "location": {
          "descriptor": {
            "name": "ABC Store",

```

<sup>1065</sup> optional

<sup>1066</sup> same as in /init where billing object is created;

<sup>1067</sup> enum for fulfillment state & mapping to order state for hyperlocal & inter-city is defined [here](#) (assuming 1 fulfillment per order, but mapping will remain same for all states except "Order-delivered" where order state will depend on the states of other fulfillment);  
enum for RTO - "RTO-Initiated", "RTO-Delivered", "RTO-Disposed";

```

},
"gps":"12.967555,77.749666",
"address":
{
  "locality":"Jayanagar",
  "city":"Bengaluru",
  "area_code":"560076",
  "state":"KA"
},
"time":
{
  "range":
  {
    "start":"2023-06-03T10:00:00.000Z",
    "end":"2023-06-03T10:30:00.000Z"
  },
  "timestamp1068":"2023-06-03T10:25:00.000Z"
},
"instructions":
{
  "code":1069,
  "name":"ONDC Order",
  "short_desc":"value of PCC1070",
  "long_desc":"additional instructions for pickup",
  "images1071":
  [
    "https://lsp.com/pickup_image.png",
    "https://lsp.com/rider_location.png"
  ]
},
"authorization1072":
{
  "type":"OTP1073",
  "token":"OTP code",
  "valid_from":"2023-06-03T12:00:00.000Z",
  "valid_to":"2023-06-03T14:00:00.000Z"
},
"contact":
{
  "phone":"9886098860",
  "email1074":"nobody@nomail.com"
},
"end":
{
  "location":
  {
    "gps":"12.453544,77.928379",
    "address":
    {
      "name":"my house or door or floor #",
      "building":"my building name or house #",
      "locality":"my street name",
      "city":"Bengaluru",
      "state":"Karnataka",
      "country":"IND",
      "area_code":"560037"
    }
  },
  "time":
  {
    "range":
  
```

<sup>1068</sup> required if state is "Order-picked-up", "Out-for-delivery", "Order-delivered";

<sup>1069</sup> type of pickup confirmation code (PCC), enum - "1" (buyer contact no (for self-pickup)), "2" (merchant order no), "3" (other pickup confirmation code), "4" (OTP); required when order is "Packed";

<sup>1070</sup> value of PCC (required when order is "Packed"):

contact no - 10 digits;

merchant order no - max 6 alphanumeric;

other pickup confirmation code - max 6 alphanumeric;

OTP - max 6 alphanumeric;

<sup>1071</sup> optional, may be provided at the time of order pickup ("Order-picked-up") & includes pickup image, rider pickup coordinates;

<sup>1072</sup> optional (as per this [flow](#)); authorization code will be generated by seller NP & sent along with expiry info. If authorization is enabled by seller NP, buyer needs to provide authorization type & code for pickup, which will be verified by seller NP and for expired authorization, resend the authorization details;

<sup>1073</sup> enum - "OTP", others TBD;

<sup>1074</sup> optional

```
{
  "start":"2023-06-03T11:00:00.000Z",
  "end":"2023-06-03T11:30:00.000Z"
},
"timestamp1075":"2023-06-03T11:35:00.000Z"
},
"instructions":
{
  "code":"31076",
  "name":"ONDC Order",
  "short_desc":"value of DCC1077",
  "long_desc":"additional instructions for delivery",
  "images1078":
  [
    "https://lsp.com/delivery_image.png",
    "https://lsp.com/rider_location.png"
  ]
},
"authorization1079":
{
  "type":"OTP1080",
  "token":"OTP code",
  "valid_from":"2023-06-03T18:00:00.000Z",
  "valid_to":"2023-06-03T22:00:00.000Z"
},
"person":
{
  "name":"name_of_person"
},
"contact":
{
  "phone":"9886098860"
},
"agent1081":
{
  "name":"agent_name",
  "phone":9886098860
},
"vehicle1082":
{
  "registration":"3LVJ945"
},
"tags":
[
  {
    "code":"state1083",
    "list":
    [
      {
        "code":"ready_to_ship",
        "value":"yes"
      }
    ],
    "code":"routing1084",
    "list":
    [
      {
        "code":"type",
        "value": "P2P"
      }
    ]
  }
]
```

<sup>1075</sup> required if state is "Order-delivered";

<sup>1076</sup> optional - type of code for order delivery: enum - "1" - OTP, "2" - other DCC, "3" - no delivery code; may be generated when order is "Out-for-delivery";

<sup>1077</sup> value of DCC (required for code 1 & 2):

other DCC - max 6 alphanumeric;

OTP - max 6 alphanumeric;

<sup>1078</sup> to be provided at the time of delivery ("Order-delivered") & includes delivery image, rider delivery coordinates;

<sup>1079</sup> optional (as per this [flow](#)), only for delivery authorization; authorization code will be generated by seller NP & sent along with expiry info. If authorization is enabled by seller NP, buyer needs to provide authorization type & code for delivery, which will be verified by seller NP and for expired authorization, resend the authorization details;

<sup>1080</sup> enum - "OTP", others TBD;

<sup>1081</sup> optional, may be provided for last-mile delivery in intercity shipments;

<sup>1082</sup> optional, may be provided for kerb-side pickup (in self pickup);

<sup>1083</sup> only if **fulfillment.type="Buyer-Delivery"**, indicates whether fulfillment is ready to ship;

<sup>1084</sup> optional, may be provided, on or before fulfillment state of "Agent-assigned", if tracking = "true"; if tracking="true" & this is not provided, default routing.type will be "P2P";

```

    "value":"P2P1085"}
  ],
{
  "code":"tracking1086",
  "list":
  [
    {
      "code":"gps_enabled1087",
      "value":"yes"
    },
    {
      "code":"url_enabled1088",
      "value":"no"
    },
    {
      "code":"url1089",
      "value":"https://sellerNP.com/ondc/tracking_url"
    }
  ],
{
  "code":"fulfillment_delay1090",
  "list":
  [
    {
      "code":"state",
      "value":"Order-picked-up1091"
    },
    {
      "code":"reason_id",
      "value":"0021092"
    },
    {
      "code":"timestamp",
      "value":"2023-06-06T22:00:00.000Z"
    }
  ]
},
"quote":
{
  "price":
  {
    "currency":"INR",
    "value":1955.65
  },
  "breakup":
  [
    {
      "@ondc/org/item_id":"I1",
      "@ondc/org/item_quantity":
      {
        "count":1
      },
      "title":"Farm House Pizza",
      "@ondc/org/title_type":"item",
      "price":
      {
        "currency":INR,
    
```

<sup>1085</sup> enum - "P2P" (point-to-point hyperlocal), "P2H2P" (hub-based);

<sup>1086</sup> (optional) tracking attributes for fulfillment, may be provided, on or before fulfillment state of "Agent-assigned", if tracking = "true";

<sup>1087</sup> whether tracking by GPS coordinates enabled;

<sup>1088</sup> whether tracking by URL enabled;

<sup>1089</sup> if tracking by URL enabled, corresponding URL for tracking;

<sup>1090</sup> includes pickup / delivery delay or failure:

in case of pickup delay or failure, start time slot (start.time.range.start, start.time.range.end) needs to be updated and the pickup delay reason code and timestamp (when recorded) may be provided here;

in case of delivery delay or failure, end time slot (end.time.range.start, end.time.range.end) needs to be updated and the pickup delay reason code and timestamp (when recorded) may be provided here;

<sup>1091</sup> enum - "Pickup-failed", "Order-picked-up", "Delivery-failed", "Order-delivered";

<sup>1092</sup> reason codes for [pickup delay](#), [delivery delay](#);

```

    "value":"269.00"
},
"item":
{
  "parent_item_id": "DI1",
  "price":
  {
    "currency": "INR",
    "value": "269.00"
  },
  "tags":
  [
    {
      "code": "type",
      "list":
      [
        {
          "code": "type",
          "value": "item"
        }
      ]
    }
  ],
  "@ondc/org/item_id": "C1",
  "@ondc/org/item_quantity":
  {
    "count": 1
  },
  "title": "New Hand Tossed",
  "@ondc/org/title_type": "item",
  "price":
  {
    "currency": "INR",
    "value": "0.00"
  },
  "item":
  {
    "parent_item_id": "DI1",
    "price":
    {
      "currency": "INR",
      "value": "0.00"
    },
    "tags":
    [
      {
        "code": "type",
        "list":
        [
          {
            "code": "type",
            "value": "customization"
          }
        ]
      },
      {
        "code": "parent",
        "list":
        [
          {
            "code": "id",
            "value": "CG1"
          }
        ]
      }
    ]
  },
  "@ondc/org/item_id": "C7",
  "@ondc/org/item_quantity":
  {
    "count": 1
  },
  "title": "Large",
  "@ondc/org/title_type": "item",
  "price":
  {

```

```

    "currency":"INR",
    "value":"450.00"
},
"item":
{
  "parent_item_id":"DI1",
  "price":
  {
    "currency":"INR",
    "value":"450.00"
  },
  "tags":
  [
    {
      "code":"type",
      "list":
      [
        {
          "code":"type",
          "value":"customization"
        }
      ],
      "code":"parent",
      "list":
      [
        {
          "code":"id",
          "value":"CG2"
        }
      ]
    }
  }
},
{
  "@ondc/org/item_id":"C14",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Grilled Mushrooms",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"80.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "price":
    {
      "currency":"INR",
      "value":"80.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  }
}

```

```

},
{
  "@ondc/org/item_id":"C16",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Pepper Barbeque Chicken",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"95.00"
  },
  "item":
  {
    "parent_item_id":"DI1",
    "price":
    {
      "currency":"INR",
      "value":"95.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"I1",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Farm House Pizza",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"269.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "price":
    {
      "currency":"INR",
      "value":"269.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"item"
          }
        ]
      }
    ]
  }
}

```

```

},
{
  "@ondc/org/item_id":"C2",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"100% Wheat Thin Crust",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"0.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "price":
    {
      "currency":"INR",
      "value":"0.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG1"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"C7",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Large",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":450.00
  },
  "item":
  {
    "parent_item_id":"DI2",
    "price":
    {
      "currency":"INR",
      "value":450.00
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      }
    ]
  }
}

```

```
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG2"
    }
  ]
},
{
  "@ondc/org/item_id":"C14",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Grilled Mushrooms",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"80.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "price":
    {
      "currency":"INR",
      "value":"80.00"
    },
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ],
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"C15",
  "@ondc/org/item_quantity":
  {
    "count":1
  },
  "title":"Fresh Tomato",
  "@ondc/org/title_type":"item",
  "price":
  {
    "currency":"INR",
    "value":"80.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "price":
    {
      "currency":"INR",
      "value":"80.00"
    },
    "tags":
  }
}
```

```
[
  {
    "code": "type",
    "list": [
      {
        "code": "type",
        "value": "customization"
      }
    ],
    {
      "code": "parent",
      "list": [
        {
          "code": "id",
          "value": "CG3"
        }
      ]
    }
  },
  {
    "@ondc/org/item_id": "I1",
    "title": "Tax",
    "@ondc/org/title_type": "tax",
    "price": {
      "currency": "INR",
      "value": "13.45"
    },
    "item": {
      "parent_item_id": "DI1",
      "tags": [
        {
          "code": "type",
          "list": [
            {
              "code": "type",
              "value": "item"
            }
          ]
        }
      ],
      {
        "@ondc/org/item_id": "C1",
        "title": "Tax",
        "@ondc/org/title_type": "tax",
        "price": {
          "currency": "INR",
          "value": "0.00"
        },
        "item": {
          "parent_item_id": "DI1",
          "tags": [
            {
              "code": "type",
              "list": [
                {
                  "code": "type",
                  "value": "customization"
                }
              ]
            },
            {
              "code": "parent",
              "list": [
                {
                  "code": "id",
                  "value": "CG3"
                }
              ]
            }
          ]
        }
      }
    }
  }
]
```

```

      "value":"CG1"
    }
  ]
}
},
{
  "@ondc/org/item_id":"C7",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"22.50"
  },
  "item":
  {
    "parent_item_id":DI1",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ]
      },
      {
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":CG2"
          }
        ]
      }
    ]
  },
  {
    "@ondc/org/item_id":"C14",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
    {
      "currency":"INR",
      "value":"4.00"
    },
    "item":
    {
      "parent_item_id":DI1",
      "tags":
      [
        {
          "code":"type",
          "list":
          [
            {
              "code":"type",
              "value":"customization"
            }
          ]
        },
        {
          "code":"parent",
          "list":
          [
            {
              "code":"id",
              "value":CG3"
            }
          ]
        }
      ]
    }
  }
}

```

```
{
  "@ondc/org/item_id": "C16",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price": [
    {
      "currency": "INR",
      "value": "4.75"
    }
  ],
  "item": [
    {
      "parent_item_id": "DI1",
      "tags": [
        [
          {
            "code": "type",
            "list": [
              [
                {
                  "code": "type",
                  "value": "customization"
                }
              ]
            ],
            "code": "parent",
            "list": [
              [
                {
                  "code": "id",
                  "value": "CG1"
                }
              ]
            ]
          }
        ]
      ]
    },
    {
      "@ondc/org/item_id": "I1",
      "title": "Tax",
      "@ondc/org/title_type": "tax",
      "price": [
        {
          "currency": "INR",
          "value": "13.45"
        }
      ],
      "item": [
        {
          "parent_item_id": "DI2",
          "tags": [
            [
              {
                "code": "type",
                "list": [
                  [
                    {
                      "code": "type",
                      "value": "item"
                    }
                  ]
                ]
              }
            ]
          ]
        },
        {
          "@ondc/org/item_id": "C2",
          "title": "Tax",
          "@ondc/org/title_type": "tax",
          "price": [
            {
              "currency": "INR",
              "value": "22.50"
            }
          ],
          "item": [
            {
              "parent_item_id": "DI2",
              "tags": [
                [
                  {
                    "code": "type",
                    "list": [

```

```
[
  {
    "code": "type",
    "value": "customization"
  }
],
{
  "code": "parent",
  "list":
  [
    {
      "code": "id",
      "value": "CG1"
    }
  ]
},
{
  "@ondc/org/item_id": "C7",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price":
  {
    "currency": "INR",
    "value": "22.50"
  },
  "item":
  {
    "parent_item_id": "DI2",
    "tags":
    [
      {
        "code": "type",
        "list":
        [
          {
            "code": "type",
            "value": "customization"
          }
        ]
      },
      {
        "code": "parent",
        "list":
        [
          {
            "code": "id",
            "value": "CG2"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id": "C14",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price":
  {
    "currency": "INR",
    "value": "4.00"
  },
  "item":
  {
    "parent_item_id": "DI2",
    "tags":
    [
      {
        "code": "type",
        "list":
        [
          {
            "code": "type",
            "value": "customization"
          }
        ]
      }
    ]
  }
}
```

```
{
  "code":"parent",
  "list":
  [
    {
      "code":"id",
      "value":"CG3"
    }
  ]
},
{
  "@ondc/org/item_id":"C15",
  "title":"Tax",
  "@ondc/org/title_type":"tax",
  "price":
  {
    "currency":"INR",
    "value":"4.00"
  },
  "item":
  {
    "parent_item_id":"DI2",
    "tags":
    [
      {
        "code":"type",
        "list":
        [
          {
            "code":"type",
            "value":"customization"
          }
        ],
        "code":"parent",
        "list":
        [
          {
            "code":"id",
            "value":"CG3"
          }
        ]
      }
    ]
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Delivery charges",
  "@ondc/org/title_type":"delivery",
  "price":
  {
    "currency":"INR",
    "value":"50.00"
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Tax",
  "@ondc/org/title_type":"tax1093",
  "price":
  {
    "currency":"INR",
    "value":"9.00"
  },
  "item":
  {
    "tags":
    [
      {
        "code":"quote",
        "list":
        [

```

<sup>1093</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

    {
      "code":"type",
      "value":"fulfillment"
    }
  ]
}
{
  "@ondc/org/item_id":"F1",
  "title":"Packing charges",
  "@ondc/org/title_type":"packing",
  "price":
  {
    "currency":"INR",
    "value":"25.00"
  }
},
{
  "@ondc/org/item_id":"F1",
  "title":"Convenience Fee",
  "@ondc/org/title_type":"misc",
  "price":
  {
    "currency":"INR",
    "value":"10.00"
  }
},
  "ttl":"PT1H"
},
"payment"1094:
{
  "uri":"https://ondc.transaction.com/payment",
  "tl_method":"http/get",
  "params":
  {
    "currency":"INR",
    "transaction_id":"3937",
    "amount":"1955.65"
  },
  "status":"PAID",
  "type":"ON-ORDER",
  "collected_by":"BAP",
  "time"1095:
  {
    "timestamp": "2023-06-04T10:00:00.000Z"
  },
  "@ondc/org/buyer_app_finder_fee_type":"percent",
  "@ondc/org/buyer_app_finder_fee_amount":"3",
  "@ondc/org/settlement_basis":"delivery",
  "@ondc/org/settlement_window":"P1D",
  "@ondc/org/withholding_amount":"10.00",
  "@ondc/org/settlement_details":
  [
    {
      "settlement_counterparty":"seller-app",
      "settlement_phase":"sale-amount",
      "beneficiary_name":"xxxxx",
      "settlement_reference":"XXXXX",
      "settlement_status":"PAID",
      "settlement_timestamp":"2023-02-04T10:00:00.000Z",
      "settlement_type":"upi",
      "upi_address":"gft@oksbi",
      "settlement_bank_account_no":"XXXXXXXXXXXX",
      "settlement_ifsc_code":"XXXXXXXXXX",
      "bank_name":"xxxx",
      "branch_name":"xxxx"
    },
    {
      "settlement_counterparty":"buyer",
      "settlement_phase":"refund",
      "settlement_type":"upi",
      "settlement_amount":"1000",
      "settlement_timestamp":"2023-02-04T18:00:00.000Z"
    }
  ]
}

```

<sup>1094</sup> optional keys here as defined in /confirm;

<sup>1095</sup> required for payment on delivery orders when order state is "Completed";

```
        ],
    "documents1096":
    [
        {
            "url":"https://invoice_url",
            "label":"Invoice"
        }
    ],
    "created_at":"2023-06-03T09:30:00.000Z",
    "updated_at":"2023-06-03T10:00:30.201Z"
}
```

---

<sup>1096</sup> required from fulfillment.state = "Order-picked-up" and thereafter;

## 2. For other product

```
{
  "context": {
    "domain": "ONDC:RET10",
    "action": "on_status",
    "core_version": "1.2.0",
    "bap_id": "buyerNP.com",
    "bap_uri": "https://buyerNP.com/ondc",
    "bpp_id": "sellerNP.com",
    "bpp_uri": "https://sellerNP.com/ondc",
    "transaction_id": "T2",
    "message_id": "M12",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2023-06-04T10:00:30.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "id": "O1",
      "state": "Completed1097",
      "cancellation1098: {
        "cancelled_by": "buyerNP.com",
        "reason": {
          "id": "004"
        }
      },
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      }
    },
    "items": [
      {
        "id": "I1",
        "fulfillment_id": "F1",
        "quantity": {
          "count": 1
        }
      },1099
      {
        "id": "I1",
        "fulfillment_id": "R1",
        "quantity": {
          "count": 1
        }
      }
    ],
    "billing": {
      "name": "ONDC buyer",
      "address": {
        "name": "my house or door or floor #",
        "building": "my building name or house #",
        "locality": "my street name",
        "city": "Bengaluru",
        "state": "Karnataka",
        "country": "IND",
        "area_code": "560037"
      }
    }
  }
}
```

<sup>1097</sup> enum - "Created", "Accepted", "In-progress", "Completed", "Cancelled";

<sup>1098</sup> required if order state is "Cancelled";

<sup>1099</sup> only if item(s) have been returned / cancelled including RTO (should have the same structure as in /on\_update including assignment of item(s) to fulfillment created for return / cancel and the corresponding fulfillment definition);

```

},
"email1100":"nobody@nomail.com",
"phone":"9886098860",
"created_at1101":"2023-06-03T09:00:00.000Z",
"updated_at":"2023-06-03T09:00:00.000Z"
},
"fulfillments":
[
{
  "id":"F1",
  "@ondc/org/provider_name":"LSP or Provider name",
  "type":"Delivery",
  "tracking":false,
  "@ondc/org/TAT":"PT60M",
  "state":
  {
    "descriptor":
    {
      "code":"Order-delivered1102"
    }
  },
  "start":
  {
    "location":
    {
      "descriptor":
      {
        "name":"ABC Store"
      },
      "gps":"12.967555,77.749666",
      "address":
      {
        "locality":"Jayanagar",
        "city":"Bengaluru",
        "area_code":"560076",
        "state":"KA"
      }
    }
  },
  "time":
  {
    "range":
    {
      "start":"2023-06-03T10:00:00.000Z",
      "end":"2023-06-03T10:30:00.000Z"
    },
    "timestamp1103":"2023-06-03T10:25:00.000Z"
  },
  "instructions":
  {
    "code":"11104",
    "name":"ONDC Order",
    "short_desc":"value of PCC1105",
    "long_desc":"additional instructions for pickup",
    "images1106":
    [
      "https://lsp.com/pickup_image.png",
      "https://lsp.com/rider_location.png"
    ]
  }
},

```

<sup>1100</sup> optional

<sup>1101</sup> same as in /init where billing object is created;

<sup>1102</sup> enum for fulfillment state & mapping to order state for hyperlocal & inter-city is defined [here](#) (assuming 1 fulfillment per order, but mapping will remain same for all states except "Order-delivered" where order state will depend on the states of other fulfillment);

enum for RTO - "RTO-Initiated", "RTO-Delivered", "RTO-Disposed";

<sup>1103</sup> required if state is "Order-picked-up", "Out-for-delivery", "Order-delivered";

<sup>1104</sup> type of pickup confirmation code (PCC), enum - "1" (buyer contact no (for self-pickup)), "2" (merchant order no), "3" (other pickup confirmation code), "4" (OTP); required when order is "Packed";

<sup>1105</sup> value of PCC (required when order is "Packed");

contact no - 10 digits;

merchant order no - max 6 alphanumeric;

other pickup confirmation code - max 6 alphanumeric;

OTP - max 6 alphanumeric;

<sup>1106</sup> optional, may be provided at the time of order pickup ("Order-picked-up") & includes pickup image, rider pickup coordinates;

```

"authorization1107":
{
  "type":"OTP1108",
  "token":"OTP code",
  "valid_from":"2023-06-03T12:00:00.000Z",
  "valid_to":"2023-06-03T14:00:00.000Z"
},
"contact":
{
  "phone":"9886098860",
  "email1109":"nobody@nomail.com"
},
"end":
{
  "location":
  {
    "gps":"12.453544,77.928379",
    "address":
    {
      "name":"my house or door or floor #",
      "building":"my building name or house #",
      "locality":"my street name",
      "city":"Bengaluru",
      "state":"Karnataka",
      "country":"IND",
      "area_code":560037
    }
  },
  "time":
  {
    "range":
    {
      "start":"2023-06-03T11:00:00.000Z",
      "end":"2023-06-03T11:30:00.000Z"
    },
    "timestamp1110":"2023-06-03T11:35:00.000Z"
  },
  "instructions":
  {
    "code":31111,
    "name":"ONDC Order",
    "short_desc":"value of DCC1112",
    "long_desc1113":"additional instructions for delivery",
    "images1114":
    [
      "https://lsp.com/delivery_image.png",
      "https://lsp.com/rider_location.png"
    ]
  },
  "authorization1115":
  {
    "type":"OTP1116",
    "token":"OTP code",
    "valid_from":"2023-06-03T18:00:00.000Z",
    "valid_to":"2023-06-03T22:00:00.000Z"
  },
  "person":
  {
    "name":"name_of_person"
  }
}

```

<sup>1107</sup> optional (as per this [flow](#)), authorization code will be generated by seller NP & sent along with expiry info. If authorization is enabled by seller NP, buyer needs to provide authorization type & code for pickup, which will be verified by seller NP and for expired authorization, resend the authorization details;

<sup>1108</sup> enum - "OTP", others TBD;

<sup>1109</sup> optional

<sup>1110</sup> required if state is "Order-delivered";

<sup>1111</sup> optional - type of code for order delivery: enum - "1" - OTP, "2" - other DCC, "3" - no delivery code; may be generated when order is "Out-for-delivery";

<sup>1112</sup> value of DCC (required for code 1 & 2):

other DCC - max 6 alphanumeric;

OTP - max 6 alphanumeric;

<sup>1113</sup> optional

<sup>1114</sup> to be provided at the time of delivery ("Order-delivered") & includes delivery image, rider delivery coordinates;

<sup>1115</sup> optional (as per this [flow](#)), only for delivery authorization; authorization code will be generated by seller NP & sent along with expiry info. If authorization is enabled by seller NP, buyer needs to provide authorization type & code for delivery, which will be verified by seller NP and for expired authorization, resend the authorization details;

<sup>1116</sup> enum - "OTP", others TBD;

```

},
"contact":
{
  "phone":"9886098860"
},
"agent1117":
{
  "name":"agent_name",
  "phone":"9886098860"
},
"vehicle1118":
{
  "registration":"3LVJ945"
},
"tags":
[
  {
    "code":"state1119",
    "list":
      [
        {
          "code":"ready_to_ship",
          "value":"yes"
        }
      ]
  },
  {
    "code":"routing1120",
    "list":
      [
        {
          "code":"type",
          "value":"P2P1121"
        }
      ]
  },
  {
    "code":"tracking1122",
    "list":
      [
        {
          "code":"gps_enabled1123",
          "value":"yes"
        },
        {
          "code":"url_enabled1124",
          "value":"no"
        },
        {
          "code":"url1125",
          "value":"https://sellerNP.com/ondc/tracking_url"
        }
      ]
  },
  {
    "code":"fulfillment_delay1126",
    "list":
      [
        {
          "code":"state",

```

<sup>1117</sup> optional, may be provided for last-mile delivery in intercity shipments;

<sup>1118</sup> optional, may be provided for kerb-side pickup (in self pickup);

<sup>1119</sup> **only if fulfillment.type="Buyer-Delivery", indicates whether fulfillment is ready to ship;**

<sup>1120</sup> may be provided, on or before fulfillment state of "Agent-assigned", if tracking = "true"; if tracking="true" & this is not provided, default routing.type will be "P2P";

<sup>1121</sup> enum - "P2P" (point-to-point, hyperlocal), "P2H2P" (hub-based, intercity);

<sup>1122</sup> tracking attributes for fulfillment, may be provided, on or before fulfillment state of "Agent-assigned", if tracking = "true";

<sup>1123</sup> whether tracking by GPS coordinates enabled;

<sup>1124</sup> whether tracking by URL enabled;

<sup>1125</sup> if tracking by URL enabled, corresponding URL for tracking;

<sup>1126</sup> audit trail for pickup / delivery delay or failure:

in case of pickup delay (or failure), start time slot (start.time.range.start, start.time.range.end) needs to be updated and the pickup delay reason code and timestamp (when recorded) may be provided here;

in case of delivery delay (or failure), end time slot (end.time.range.start, end.time.range.end) needs to be updated and the delivery delay reason code and timestamp (when recorded) may be provided here;

```

    "value":"Order-picked-up"1127
},
{
  "code":"reason_id",
  "value":"002"1128
},
{
  "code":"timestamp",
  "value":"2023-06-06T22:00:00.000Z"
}
]
}
],
"quote":
{
  "price":
  {
    "currency":"INR",
    "value":254
  },
  "breakup":
  [
  {
    "@ondc/org/item_id": "I1",
    "@ondc/org/item_quantity":
    {
      "count": 1
    },
    "title": "Atta",
    "@ondc/org/title_type": "item",
    "price":
    {
      "currency": "INR",
      "value": "170"
    },
    "item":
    {
      "price":
      {
        "currency": "INR",
        "value": "170"
      }
    }
  },
  {
    "@ondc/org/item_id": "F1",
    "title": "Delivery charges",
    "@ondc/org/title_type": "delivery",
    "price":
    {
      "currency": "INR",
      "value": "50"
    }
  },
  {
    "@ondc/org/item_id": "F1",
    "title": "Tax",
    "@ondc/org/title_type": "tax"1129,
    "price":
    {
      "currency": "INR",
      "value": "9.00"
    },
    "item":
    {
      "tags":
      [
      {
        "code": "quote",
        "list":
        [
        {

```

<sup>1127</sup> enum - "Pickup-failed", "Order-picked-up", "Delivery-failed", "Order-delivered";

<sup>1128</sup> reason codes for [pickup delay / failure](#), [delivery delay / failure](#);

<sup>1129</sup> tax on fulfillment level charges, to be included only if not 0 (i.e. logistics buyer NP provides tax inclusive fulfillment level charges);

```

    "code":"type",
    "value":"fulfillment"
  }
}
{
  "@ondc/org/item_id":"F1",
  "title":"Packing charges",
  "@ondc/org/title_type":"packing",
  "price":
  {
    "currency":"INR",
    "value":"25"
  },
  {
    "@ondc/org/item_id":"I1",
    "title":"Tax",
    "@ondc/org/title_type":"tax",
    "price":
    {
      "currency":"INR",
      "value":"0"
    }
  },
  {
    "@ondc/org/item_id":"I1",
    "title":"Discount",
    "@ondc/org/title_type":"discount",
    "price":
    {
      "currency":"INR",
      "value":"-10"
    }
  },
  {
    "@ondc/org/item_id":"F1",
    "title":"Convenience Fee",
    "@ondc/org/title_type":"misc",
    "price":
    {
      "currency":"INR",
      "value":"10"
    }
  }
],
"ttl":"P1D"
},
"payment"1130:
{
  "uri":"https://ondc.transaction.com/payment",
  "tl_method":"http/get",
  "params":
  {
    "currency":"INR",
    "transaction_id":"3937",
    "amount":254
  },
  "status":"PAID",
  "type":"ON-ORDER",
  "collected_by":"BAP",
  "time"1131:
  {
    "timestamp": "2023-06-04T10:00:00.000Z"
  },
  "@ondc/org/buyer_app_finder_fee_type":"percent",
  "@ondc/org/buyer_app_finder_fee_amount":3,
  "@ondc/org/settlement_basis":"delivery",
  "@ondc/org/settlement_window":"P1D",
  "@ondc/org/withholding_amount":"10.00",
  "@ondc/org/settlement_details":
  [
    {
      "settlement_counterparty":"seller-app",

```

<sup>1130</sup> optional keys here as defined in /confirm;

<sup>1131</sup> required for payment on delivery orders when order state is "Completed";

```

    "settlement_phase":"sale-amount",
    "beneficiary_name":"xxxxx",
    "settlement_reference":"XXXX",
    "settlement_status":PAID",
    "settlement_timestamp":"2023-02-04T10:00:00.000Z",
    "settlement_type":UPI,
    "upi_address":gft@oksbi",
    "settlement_bank_account_no":XXXXXXXXXX,
    "settlement_ifsc_code":XXXXXXX,
    "bank_name":"xxxx",
    "branch_name":"xxxx"
  },
  {
    "settlement_counterparty":buyer,
    "settlement_phase":refund,
    "settlement_type":UPI,
    "settlement_amount":1000,
    "settlement_timestamp":2023-02-04T18:00:00.000Z
  }
]
},
"documents1132":
[
  {
    "url":https://invoice_url",
    "label":Invoice
  }
],
"created_at":2023-06-03T09:30:00.000Z",
"updated_at":2023-06-03T10:00:30.201Z"
}
}

```

**N.B.**

1. /on\_status response can be solicited or unsolicited;
2. /on\_status returns the audit trail for order items (including status of item returns, cancels processed or in-progress), the current state of order items & fulfillments, order quote & breakup;
3. Buyer app can send NACK for /on\_status with error code for cases such as:
  - a. NACK received by seller app for /on\_confirm but seller app sends /on\_status to update order state to "Accepted";
4. In case of NACK received for /on\_status, seller app should rollback order to previous state of the order, i.e. the state prior to sending /on\_status;

---

<sup>1132</sup> required from fulfillment.state = "Order-picked-up" and thereafter;

## Fulfillment states & mapping to order states

### **1. Hyperlocal (P2P)**

| Fulfillment State                 | When to assign state      | Order state             |
|-----------------------------------|---------------------------|-------------------------|
| "Pending"                         | default fulfillment state | "Created" or "Accepted" |
| "Packed"                          | packed for shipping       | "In-progress"           |
| <b>"Agent-assigned"</b>           | <b>rider assigned</b>     | <b>"In-progress"</b>    |
| "Order-picked-up" <sup>1133</sup> | order picked up by rider  | "In-progress"           |
| "Out-for-delivery"                | Out for delivery          | "In-progress"           |
| "Order-delivered"                 | delivered                 | "Completed"             |
| "Cancelled"                       | cancelled                 | "Cancelled"             |

### **2. Intercity (P2H2P)**

| Fulfillment State           | When to assign state                 | Order state             |
|-----------------------------|--------------------------------------|-------------------------|
| "Pending"                   | default fulfillment state            | "Created" or "Accepted" |
| "Packed"                    | packed for shipping                  | "In-progress"           |
| <b>"Agent-assigned"</b>     | <b>rider assigned</b>                | <b>"In-progress"</b>    |
| <b>"Out-for-pickup"</b>     | <b>out for pickup</b>                | <b>"In-progress"</b>    |
| <b>"Pickup-failed"</b>      | <b>pickup attempted but failed</b>   | <b>"In-progress"</b>    |
| "Order-picked-up"           | picked up by rider                   | "In-progress"           |
| <b>"In-transit"</b>         | <b>at source hub</b>                 | <b>"In-progress"</b>    |
| <b>"At-destination-hub"</b> | <b>at destination hub</b>            | <b>"In-progress"</b>    |
| "Out-for-delivery"          | Out for delivery                     | "In-progress"           |
| <b>"Delivery-failed"</b>    | <b>delivery attempted but failed</b> | <b>"In-progress"</b>    |
| "Order-delivered"           | delivered                            | "Completed"             |
| "Cancelled"                 | cancelled                            | "Cancelled"             |

### **3. RTO**

| Fulfillment State | When to assign state                                    | Order state  |
|-------------------|---|--|
| "RTO-Initiated"   | When RTO has been initiated                             | Order state before RTO initiated                           |
| "RTO-Disposed"    | RTO terminal state when "return to origin" not required | "Cancelled" (if all fulfillments cancelled) or "Completed" |
| "RTO-Delivered"   | RTO terminal state when "return to origin" required     | "Cancelled" (if all fulfillments cancelled) or "Completed" |

<sup>1133</sup> terminal state for Self-Pickup;

## Updated domain namespace

- Existing domain will be migrated to separate domains for each category:

|                   |            |
|-------------------|------------|
| Grocery           | ONDC:RET10 |
| F&B               | ONDC:RET11 |
| Fashion           | ONDC:RET12 |
| BPC               | ONDC:RET13 |
| Electronics       | ONDC:RET14 |
| Appliances        | ONDC:RET15 |
| Home & Kitchen    | ONDC:RET16 |
| Health & Wellness | ONDC:RET18 |
| Pharma            | ONDC:RET19 |

### Mapping of title\_type to quote (level) type

- Rules for mapping quote title\_type to quote (level) type, e.g. "item" (product cost) only applies to quote (level) type "item" whereas "tax" may apply to quote (level) type "item" or "fulfillment":

| <b>title_type</b> | <b>quote (level) type</b> |
|-------------------|---------------------------|
| item              | item                      |
| delivery          | fulfillment               |
| tax               | item, fulfillment         |
| packing           | fulfillment               |
| discount          | item, fulfillment, order  |
| misc              | fulfillment, order        |
| offer             | item, fulfillment, order  |

## Transaction level contract

### Overview

1. Purpose of the transaction level contract between the participating NPs is explained [here](#) and includes the standard terms & conditions for the network participant(s);
2. The codified digital contract includes a set of configurable terms defined by the seller and a set of static terms which will be defined by the buyer NP (BNP);
3. A reference to these static terms will be a part of every online transaction between 2 participants;
4. Reference clauses to serve as a guide for participants to draft their static terms for the codified digital contract can be found [here](#);

### Proposed flow

1. Static terms will be version-controlled in GitHub [repo](#):
  - a. All static terms will start with version 1.0.0 and subsequent changes will increment the version;
  - b. NP creates a PR for their static terms and ONDC will merge this PR and share the link with the NP:
    - i. NP forks the repository and creates a branch under the appropriate version, using the following naming convention:
      - <NP name>\_role e.g. "Pincode\_BNP", "Magicpin\_BNP", etc.;
    - ii. NP merges their static terms into this branch;
    - iii. NP creates PR for these changes;
2. Static terms can be published by NP on multiple channels e.g. their website, ONDC portal, etc.
3. Communication & acceptance of static terms:
  - a. **Communication by BNP**
    - i. BNP sends the following additional info as part of /search:
      - **current** static terms link with version:
        - for the very 1st set of static terms, this will be a blank link;
      - **new** static terms link with version, if any:
        - for the very 1st static terms, this will be the link for static terms in GitHub;
      - effective date for new static terms
    - ii. Info in (i) above will be sent in /search for full catalog for 24 hrs, after this version of static terms is published;
    - iii. 24 hrs prior to expiry of effective date in (i) above, BNP resends additional info in (i) above;
    - iv. If BNP wants to change the effective date, they can update the effective date in (i) above and repeat (ii) & (iii) above;
    - v. If BNP wants to change their static terms, they need to resubmit their PR with new version no;
    - vi. It is recommended that the BNP should give at least 15 days of advance notice when they are changing their static terms.
  - b. **Acceptance by seller NP (SNP)**
    - i. If SNP accepts the static terms in /search above, they need to send accept="Y" in /on\_search;
    - ii. If SNP doesn't accept the static terms in /search above, they need to send accept="N" in /on\_search;
    - iii. If SNP doesn't accept the static terms for a BNP, they should stop responding with their catalog for the corresponding BNP from the effective date;
    - iv. If SNP doesn't accept the static terms but continues to send their catalog, BNP may, at their discretion, choose to delist the sellers for this SNP;
    - v. Static terms agreed to between the BNP & SNP will be a part of /confirm and /confirm;

## Transaction flows

### Buyer NP (BNP) integration with logistics

1. Integration between retail buyer NP (BNP) & LSP will have similar flow as for retail seller NP;
2. Since logistics is a separate domain, BNP needs to register as buyer NP for the logistics domain (LBNP);
3. Retail seller NP (SNP) that supports fulfillment by BNP will also enable the fulfillment type "**Buyer-Delivery**";
4. Integration steps are defined for pre-order flow (i.e. up to creation of logistics order) and post-order flow (i.e. status & other update, cancellation, tracking), with **additions to retail contract highlighted**;
5. **Pre-order flow**
  - a. **LSP catalog**
    - i. **connected**: on-network call for LSP catalog:
      - LBNP sends /search thru gateway & gateway broadcasts to LSPs:
        - Logistics /search requires start & end gps coordinates & city code, weight / dimensions of package being shipped, etc.;
        - Logistics /search<sup>1134</sup> should be sequenced after receiving response for retail /select;
      - LSP(s) send logistics catalog directly to LBNP;
    - ii. **disconnected**:
      - BNP maintains rate card for logistics (includes rate, TAT for distance slabs);
  - b. If SNP supports "**Buyer-Delivery**" fulfillment type, /on\_select should have for the corresponding fulfillment:
    - i. quote with packaging charges / convenience fee, as applicable (delivery charge of 0);
    - ii. O2S TAT;
    - iii. **weight & dimensions of package**;
  - c. SNP can also include their own fulfillment types (for delivery, self-pickup):
    - i. BNP consolidates fulfillment options from LSP & SNP for buyer;
    - ii. for fulfillment options from LSP, BNP will need to compute O2D as O2S + S2D (S2D will have 1st mile & last mile components and there may be an overlap between O2S & 1st mile component especially for F&B);
  - d. If buyer selects fulfillment corresponding to "**Buyer-Delivery**" fulfillment type, corresponding fulfillment id should be mapped to item and passed in /init to SNP:
    - i. In response, SNP will send the updated quote, for the selected fulfillment, including packaging charges / convenience fee (as applicable) & O2S TAT;
    - ii. **SNP also updates whether RTO action results in actual return to origin**;
  - e. Order will be confirmed with SNP with the above fulfillment id / quote / TAT as sent by SNP in /on\_init:
  - f. Logistics order will be confirmed by LBNP with the selected fulfillment id;
6. **Post-order flow**
  - a. **State update**:
    - i. SNP updates retail order state to "Packed";
    - ii. **SNP notifies "ready\_to\_ship" for retail order**:
      - "ready\_to\_ship" and "Packed" may be sent in any sequence:
        - at the same time;
        - "ready\_to\_ship" followed by "Packed";
        - "Packed" followed by "ready\_to\_ship";
      - **SNP also sends pickup code (PCC / authorization) along with "ready\_to\_ship"**;

<sup>1134</sup> Logistics API contract [here](#);

- iii. On receiving "ready\_to\_ship" from SNP, LBNP notifies "ready\_to\_ship" to LSP, with pickup code:
    - In response, LSP updates pickup slot & shipping label (for hub-based delivery);
    - **BNP forwards pickup slot & shipping label (for hub-based delivery) to SNP using /update;**
  - iv. When agent is assigned ("Agent-assigned"), LSP sends agent details to LBNP using /on\_status:
    - **BNP forwards this status to SNP using /update;**
    - SNP will need to handle cases where fulfillment states are received out of sequence, e.g. "Agent-assigned" before "Packed";
  - v. After fulfillment is picked up, LSP updates status of logistics order to "Order-picked-up", with pickup time:
    - **BNP requests update of retail order / fulfillment state & pickup time using /update;**
  - vi. After fulfillment is delivered, LSP updates state of logistics order to "Order-delivered":
    - **BNP requests update of retail order / fulfillment state & delivery time using /update;**
    - After all fulfillments are marked "Order-delivered", SNP should update order state to "Completed";
  - vii. All interim states between iv & vi will also be updated in same way;
  - viii. In case of off-network logistics, all state updates need to be provided by BNP in same way;
- b. **Cancellation:**
- i. **LSP cancels:**
    - LSP cancels logistics order using /on\_cancel, with reason code and their subscriber id in "cancelled\_by";
    - BNP cancels the retail order / fulfillment (passing the same cancellation reason from LSP);
    - If RTO initiated:
      - **BNP requests state update, for forward & reverse fulfillment, for retail order** (see "State update" above);
      - SNP may cancel order either at "RTO\_Initiated" or terminal state ("RTO\_Delivered", "RTO\_Disposed");
    - Cancellation charges (including RTO costs as applicable) will be communicated by BNP to SNP, if SNP is liable for such charges:
      - **state update & cancellation charges will be communicated to SNP using /update;**
      - **cancellation charges will not be included in the order quote and separate keys will be provided for this (as these are receivables due from SNP to BNP);**
  - ii. **Buyer / BNP cancels:**
    - BNP cancels retail order / fulfillment using /cancel;
    - BNP cancels logistics order using /cancel;
    - If RTO initiated:
      - **BNP requests state update, for forward & reverse fulfillment, for retail order** (see "State updates" above);
      - SNP to cancel order either at RTO initiation or terminal state;
    - Cancellation charges including RTO costs (as applicable) will be communicated by BNP to SNP, if SNP is liable for such charges:
      - **state update & cancellation charges will be communicated to SNP using /update;**
      - **cancellation charges will not be included in the order quote and separate keys will be provided for this (as these are receivables due from SNP to BNP);**
  - iii. **SNP cancels:**
    - SNP cancels retail order / fulfillment using /on\_cancel;
    - BNP cancels logistics order (passing same cancellation reason from SNP) using /cancel;
    - If RTO initiated:
      - **BNP request state update, for forward & reverse fulfillment, for retail order** (see "Status updates" above);

- SNP to cancel order either at RTO initiation or terminal state;
- Cancellation charges including RTO costs (as applicable) will be communicated by BNP to SNP, if SNP is liable for such charges:
  - **state update & cancellation charges will be communicated to SNP using /update;**
  - **cancellation charges will not be included in the order quote and separate keys will be provided for this (as these are receivables due from SNP to BNP);**

iv. For off-network logistics, all state updates for forward / reverse fulfillment need to be provided by BNP;

**c. Return:**

i. Charges:

- SNP handles return pickup => no additional charges to be sent in order quote;
- **SNP doesn't handle return pickup => BNP will need to factor in return costs;**

ii. Flow:

- SNP handles return pickup => existing flow applies;
- SNP doesn't handle return pickup:
  - BNP sends return request;
  - SNP approves return request with status "Return\_Approved" **and also sends reverse qc details for return pickup check;**
  - BNP creates & places order for logistics for return pickup;
  - **BNP requests state update, for return fulfillment** (see "Status update" above);

**d. Tracking:**

- i. Tracking of order / fulfillment will be directly between BNP & LSP:
  - SNP tracking - may be enabled later;

**e. Other updates:**

- i. In case of part-cancel of items, BNP may update logistics order with updated weight / dimensions / order value;
- ii. Weight differential
  - LSP sends updated quote / weight / dimension due to weight differential to LBNP:
    - **LBNP forwards weight / dimension / receivables due from SNP, due to weight differential, to SNP;**
  - SNP to inform BNP if they accept or dispute the weight differential updates:
    - If SNP disputes:
      - LBNP communicates to LSP that weight differential updates are rejected;
      - LSP handles order delivery as per static terms;
      - resolution of dispute will follow IGM route (details tbd);
    - If SNP accepts:
      - **differential cost will not be included in order quote and separate keys will be provided for this (as these are receivables due from SNP to BNP);**

**7. Summary of additions to retail contract**

a. /on\_search:

- i. additional fulfillment option for provider for "Buyer-Delivery";

b. /on\_select:

- i. quote with packaging charges / misc for fulfillment option "Buyer-Delivery";
- ii. O2S TAT for fulfillment option "Buyer-Delivery";
- iii. weight & dimensions of package for fulfillment option "Buyer-Delivery";

c. /on\_init:

- i. whether (items in) fulfillment should be returned in case of RTO;
- ii. updated fulfillment TAT for O2S;

d. /confirm:



- i. Confirmed retail order details will also include weight & dim for order, O2S TAT;
- e. /update:
  - i. Order / fulfillment state updates;
  - ii. Communication of receivables due from SNP to BNP;

Seller NP (SNP) collecting payment

1. SNP that wants to collect payment should set "bpp\_terms"."collect\_payment" to "Y" in /on\_search (full catalog refresh);
2. Buyer NP (BNP) that wants to place order with this SNP will need to render the payment link sent by SNP:
  - a. SNP sends following additional attributes in /on\_init for rendering payment link:
    - i. payment.type="ON-ORDER" (prepaid);
    - ii. payment.collected\_by="BPP";
    - iii. payment.uri="secure\_public\_pg\_link";
    - iv. payment.status="NOT-PAID";
  - b. BNP will need to render this payment link for the buyer, after receiving the /on\_init response;
3. SNP updates payment collection details using unsolicited /on\_init:
  - a. Scenario 1 - collection successful, payment status updated:
    - i. payment.params:currency, amount (order value), transaction\_id (unique transaction reference);
    - ii. payment.status="PAID";
    - iii. **payment.tags.bpp\_collect.success="Y"**;
    - iv. in this case, BNP should proceed with /confirm;
  - b. Scenario 2 - collection successful, payment status not updated:
    - i. payment.params:currency, amount (order value), transaction\_id (if available);
    - ii. payment.status="NOT-PAID";
    - iii. **payment.tags.bpp\_collect.success="Y"**;
    - iv. in this case, BNP may terminate the transaction or proceed with /confirm. If BNP proceeds with /confirm, SNP should honour /confirm as per the contract and it will be the SNP's responsibility to subsequently update payment.status when available;
  - c. Scenario 3 - collection error:
    - i. payment.params:currency, amount (order value);
    - ii. payment.status="NOT-PAID";
    - iii. **payment.tags.bpp\_collect.success="N"**;
    - iv. **payment.tags.bpp\_collect.error="error\_message"**;
    - v. in this case, BNP should terminate the transaction;
4. If BNP doesn't receive payment collection details (as per 3 above) within its TAT:
  - a. BNP should terminate the transaction and if the payment collection details are subsequently received, it should NACK /on\_init with error code 20009;
  - b. BNP may also send another /init request for the latest payment collection details and follow (a) above if the /on\_init callback doesn't have the required payment collection details;

Force cancellation

1. Considering that /cancel is a request by buyer NP (BNP) for seller NP (SNP) to cancel order / fulfillment, there may be a need for BNP to initiate "force cancellation" for certain cases like buyer requesting cancellation due to fulfillment TAT breach;
2. All orders / fulfillment(s) can be cancelled at any stage before delivery;
3. Cancellation terms can be defined by SNP:
  - a. includes cancellation fee as flat amount / % (% to be interpreted as follows):
    - i. % of order value (excluding taxes) for order cancellation;
    - ii. % of fulfillment value (i.e. item + fulfillment level costs excluding taxes) for fulfillment cancellation (in case of multiple fulfillments);
    - iii. for order with multiple fulfillments, cancellation fees may be defined as %;
  - b. can be optionally defined at:
    - i. order level (in /on\_init);
  - c. will be applicable, for cancellation of order / fulfillment, only after corresponding order state is "Accepted";
4. Cancellation terms definition:
  - a. /on\_init - cancellation fee for specific fulfillment state & reason code, with option for wildcard ("\*") as the catch-all clause covering combination of fulfillment state & reason code not specifically defined;
5. Cancellation fee calculation:
  - a. for /on\_cancel response:
    - i. (order value - updated order value in /on\_cancel)
  - b. for no /on\_cancel response:
    - i. if matching the specific fulfillment state & reason code, the cancellation fee will be as defined in cancellation terms for /on\_init;
    - ii. if not matching, cancellation fee will be 0;
6. Cancellation:
  - a. BNP initiates cancellation for order / fulfillment using /cancel (with reason code / fulfillment id, as applicable);
  - b. Includes TAT for receiving valid cancellation response;
  - c. If SNP sends valid /on\_cancel response within TAT:
    - i. response has updated quote, order / fulfillment state set to cancelled;
    - ii. BNP processes response and calculates cancellation fee as defined above;
  - d. If SNP doesn't send valid response / doesn't respond within TAT:
    - i. BNP sends force cancel request for order / fulfillment, i.e. /cancel request with "force" = "yes";
    - ii. If SNP sends valid response within TAT, processing will be as defined in c above;
    - iii. If SNP doesn't send (valid) response:
      - BNP will create IGM issue for resolution (after expiry of TAT), including details such as cancellation fee calculated, refund issued (as applicable);
      - resolution of IGM issue will create a valid /on\_cancel response for the "force" cancellation;

Authorization (OTP)

Authorization enables seller NP (SNP) to authorize pickup and logistics buyer NP (LBNP) to authorize delivery of an order on verification of specific auth code (e.g. OTP), generated for this purpose;

Proposed flow for authorization is:

1. SNP requests for LSP that supports authorization for pickup:
  - a. If SNP is not LBNP, this request will be routed through LBNP;
2. LBNP requests for LSP that supports authorization for delivery:
  - a. 1 & 2 will be in the same /search request;
  - b. Only LSPs that support authorization requested should respond with their catalog;
3. SNP creates auth code for pickup, with validity, and sends to LSP, typically after the order is packed:
  - a. If SNP is not LBNP, this request will be routed through LBNP;
4. LBNP creates auth code for delivery, with validity, and sends to BNP, typically when the order is out for delivery:
  - a. If SNP is LBNP, this will be sent using /on\_status;
5. After the order is picked up, LSP sends /on\_status with fulfillment state "Order-picked-up" and with the pickup auth code:
  - a. If BNP is LBNP, this request will be routed to SNP using /update;
  - b. SNP verifies the pickup auth code and if not valid:
    - i. NACKs request with error code 40010 (expired auth code) or 40011 (invalid auth code) which needs to be mapped by LBNP to error codes 62510 & 62511 respectively;
    - ii. In case of expired auth code, seller NP subsequently regenerates auth code for pickup and sends to LSP thru LBNP;
6. After the order is delivered, LSP sends /on\_status with fulfillment state "Order-delivered" and with delivery auth code:
  - a. LBNP verifies the delivery auth code and NACKs /on\_status with error code 62510 (expired auth code) or 62511 (invalid auth code);
  - b. In case of expired auth code (error code 62510), LBNP regenerates auth code for delivery and sends to BNP:
    - i. If SNP is LBNP, this will be sent using /on\_status;