

Inventory-Less Retail Model

Inventory-Less Retail Model

Buy Now Journey:

/search

BNP fetches catalog of all the inventory less sellers

```
{
  "context":
  {
    "domain": "ONDC:RETINVL",
    "action": "search",
    "country": "IND",
    "city": "std:080",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2025-01-08T08:00:00.000Z",
    "ttl": "PT30S"
  },
  "message":
  {
    "intent":
    {
      "category":
      {
        "id": "Mobile Phone"
      },
      "fulfillment":
      {
        "type": "Delivery",
        "end":
        {
          "location":
          {
            "gps": "12.9740,77.6134",
            "address":
            {
              "area_code": "560001"
            }
          }
        }
      }
    }
  },
  "payment":
  {
    "@ondc/org/buyer_app_finder_fee_type": "percent",
    "@ondc/org/buyer_app_finder_fee_amount": "2"
  },
  "tags":
  [
    {
      "code": "bap_terms",
      "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": "2025-02-01T00:00:00.000Z"
        }
      ]
    }
  ]
}
```

}
}
}
}
}

/on_search

SNPs respond with their catalog (each item is marked with a unique GTIN/EAN/ISBN code)

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "country": "IND",
    "city": "std:080",
    "action": "on_search",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T1",
    "message_id": "M1",
    "timestamp": "2025-01-08T08:00:30.000Z"
  },
  "message": {
    "catalog": {
      "bpp/descriptor": {
        "name": "Seller NP",
        "symbol": "https://snp.com/images/np.png",
        "short_desc": "Seller Marketplace",
        "long_desc": "Seller Marketplace",
        "images": ["https://snp.com/images/np.png"],
        "tags": [
          {
            "code": "bpp_terms",
            "list": [
              {
                "code": "np_type",
                "value": "MSN"
              },
              {
                "code": "accept_bap_terms",
                "value": "Y"
              }
            ]
          }
        ]
      }
    }
  },
  "bpp/providers": [
    {
      "id": "P1",
      "time": {
        "label": "enable",
        "timestamp": "2025-01-08T08:00:30.000Z"
      }
    },
    "fulfillments": [
      {
        "id": "F1",
        "type": "Delivery"
      },
      {
        "id": "F2",
        "type": "Self-Pickup"
      }
    ],
    "payments": [
      {
        "id": "1",
        "type": "ON-ORDER"
      },
      {
        "id": "2",
        "type": "ON-FULFILLMENT"
      },
      {
        "id": "3",
        "type": "PART-PAYMENT",
        "tags": [
          {

```

```
"code": "payment_detail",
"list": [
  {
    "code": "ALLOWED-FULFILLMENTS",
    "value": "F1,F2"
  }
]
},
{
  "id": "4",
  "type": "PART-PAYMENT",
  "tags": [
    {
      "code": "payment_detail",
      "list": [
        {
          "code": "ALLOWED-FULFILLMENTS",
          "value": "F2"
        }
      ]
    }
  ]
}
],
"descriptor": {
  "name": "Store 1"
},
"ttl": "P1D",
"locations": [
  {
    "id": "L1",
    "time": {
      "label": "enable",
      "timestamp": "2025-01-08T07:30:30.000Z",
      "schedule": {
        "holidays": ["2025-01-26", "2025-08-15"]
      }
    }
  },
  "gps": "12.9675,77.7496",
  "address": {
    "area_code": "560076",
    "state": "KA"
  }
}
],
"categories": [
  {
    "id": "V1",
    "descriptor": {
      "name": "iPhone Variants"
    },
    "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": "enable",
      "timestamp": "2025-01-08T07:30:00.000Z"
    },
    "parent_item_id": "V1",
    "descriptor": {
      "name": "Apple iPhone 14",
      "code": "6:UPI-ID#",
      "symbol": "https://snp.com/images/i1.png",
      "short_desc": "Apple iPhone 14",
      "long_desc": "Apple iPhone 14",
      "images": [
        "https://snp.com/images/i1.png"
      ]
    },
    "quantity": {
      "unitized": {
        "measure": {
          "unit": "unit",
          "value": "1"
        }
      }
    },
    "maximum": {
      "count": "1"
    }
  },
  {
    "price": {
      "currency": "INR",
      "value": "67999.00",
      "maximum_value": "79990.00"
    },
    "category_id": "Mobile Phone",
    "fulfillment_id": "F1",
    "payment_ids": [
      "1",
      "3"
    ],
    "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/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": "12/2024"
    },
    "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_name",
      "value": "Starlight"
    },
    {
      "code": "ram",
      "value": "128"
    },
    {
      "code": "ram_unit",
      "value": "GB"
    },
    {
      "code": "rom",
      "value": "128"
    },
    {
      "code": "rom_unit",
      "value": "GB"
    },
    {
      "code": "storage",
      "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": "benchmark_price",
  "list": [
    {
      "code": "currency",
      "value": "INR"
    },
    {
      "code": "value",
      "value": "66500"
    }
  ]
}
]
},
{
  "id": "I2",
  "time": {
    "label": "enable",
    "timestamp": "2025-01-08T07:30:00.000Z"
  },
  "parent_item_id": "V1",
  "descriptor": {
    "name": "Apple iPhone 14",
    "code": "3:GTIN#",
    "symbol": "https://snp.com/images/i2.png",
    "short_desc": "Apple iPhone 14",
    "long_desc": "Apple iPhone 14",
    "images": [
      "https://snp.com/images/i2.png"
    ]
  },
  "quantity": {
    "unitized": {
      "measure": {
        "unit": "unit",
        "value": "1"
      }
    }
  }
},
}
```

```

"maximum": {
  "count": "2"
},
"price": {
  "currency": "INR",
  "value": "97999.00",
  "maximum_value": "109990.00"
},
"category_id": "Mobile Phone",
"fulfillment_id": "F1",
"payment_ids": [
  "1",
  "3"
],
"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/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": "12/2024"
},
"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_name",
        "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"
},
{
"code": "breadth",
"value": "7.15"
},
{
"code": "height",
"value": "0.78"
}
]
},
{
"code": "benchmark_price",
"list": [
{
"code": "currency",
"value": "INR"
}
```

```

    },
    {
      "code": "value",
      "value": "96500"
    }
  ]
}
]
}
]
"tags": [
  {
    "code": "timing",
    "list": [
      {
        "code": "type",
        "value": "All"
      },
      {
        "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": "13"
      },
      {
        "code": "unit",
        "value": "geojson"
      },
      {
        "code": "val",
        "value": "{\"type\": \"FeatureCollection\", \"features\": [{\"type\": \"Feature\", \"properties\": {}, \"geometry\": {\"coordinates\": [[[[[77.4366, 14.6230], [75.5973, 13.2507], [76.8359, 11.9329], [78.7709, 11.3290]]], [[75.6948, 15.9928], [74.8319, 14.8515], [77.4006, 15.1229], [75.6948, 15.9928]]]], \"type\": \"MultiPolygon\"}}}"
      }
    ]
  },
  {
    "code": "day_from",
    "value": "1"
  },
  {
    "code": "day_to",
    "value": "7"
  },
  {

```

```
    "code": "time_from",
    "value": "0000"
  },
  {
    "code": "time_to",
    "value": "2359"
  }
]
}
}
}
```

/init

BNP initiates the buy now intent with all the relevant SNPs (matching product unique id like GTIN) with distinct transaction_id and message_id. The catalog received in /on_search consisted of all the details of SNPs and their associated sellers.

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "init",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M3",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2025-01-08T09:00:00.000Z",
    "ttl": "PT1H"
  },
  "message": {
    "order": {
      "type": "ILBN",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      }
    },
    "items": [
      {
        "id": "I1",
        "descriptor": {
          "code": "6:UPI-ID#"
        },
        "quantity": {
          "count": 1
        },
        "price": {
          "estimated_value": "67999"
        }
      }
    ],
    "fulfillments": [
      {
        "type": "Delivery",
        "end": {
          "location": {
            "gps": "12.4535,77.9283",
            "address": {
              "area_code": "560037"
            }
          }
        }
      }
    ]
  }
}
```

/on_init

All the SNPs provide their available fulfillment and payment options.

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "on_init",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M3",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2025-01-08T09:00:30.000Z"
  },
  "message": {
    "order": {
      "type": "ILBN",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      }
    },
    "items": [
      {
        "id": "I1",
        "descriptor": {
          "code": "3:GTIN#"
        },
        "quantity": {
          "count": 1
        }
      }
    ],
    "fulfillments": [
      {
        "id": "F1",
        "type": "Delivery",
        "tracking": false,
        "end": {
          "location": {
            "gps": "12.4535,77.9283",
            "address": {
              "area_code": "560037"
            }
          }
        }
      },
      {
        "id": "F2",
        "type": "Self-Pickup"
      }
    ],
    "quote": {
      "price": {
        "currency": "INR",
        "value": "68108.00"
      }
    },
    "breakup": [
      {
        "@ondc/org/item_id": "I1",
        "@ondc/org/item_quantity": {
          "count": 1
        },
        "title": "Apple iPhone 14",
        "@ondc/org/title_type": "item",
        "price": {
          "currency": "INR",

```

```
"value": "67999.00"
},
"item": {
  "price": {
    "currency": "INR",
    "value": "67999.00"
  }
}
},
{
  "@ondc/org/item_id": "I1",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price": {
    "currency": "INR",
    "value": "0.00"
  }
},
{
  "@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": "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": "25.00"
  }
},
{
  "@ondc/org/item_id": "F2",
  "title": "Delivery charges",
  "@ondc/org/title_type": "delivery",
  "price": {
    "currency": "INR",
    "value": "00.00"
  }
},
{
  "@ondc/org/item_id": "F2",
  "title": "Packing charges",
  "@ondc/org/title_type": "packing",
  "price": {
    "currency": "INR",
    "value": "25.00"
  }
}
}
```

```

    },
    {
      "@ondc/org/item_id": "I1",
      "title": "Discount",
      "@ondc/org/title_type": "discount",
      "price": {
        "currency": "INR",
        "value": "-10.00"
      }
    }
  ],
  "ttl": "P1D",
  "payments": [
    {
      "id": "1",
      "type": "ON-ORDER",
      "status": "NOT-PAID",
      "collected_by": "BAP"
    },
    {
      "id": "3",
      "type": "PART-PAYMENT",
      "tags": [
        {
          "descriptor": {
            "code": "LINKED-PAYMENTS"
          },
          "list": [
            {
              "descriptor": {
                "code": "pymnt-part-1"
              },
              "value": "1"
            },
            {
              "descriptor": {
                "code": "pymnt-part-2"
              },
              "value": "2"
            }
          ]
        }
      ]
    }
  ],
  {
    "id": "pymnt-part-1",
    "type": "ON-ORDER",
    "status": "NOT-PAID",
    "collected_by": "BAP",
    "tags": [
      {
        "descriptor": {
          "code": "ADV-DEPOSIT"
        }
      }
    ]
  },
  "params": {
    "amount": "2000.00",
    "currency": "INR"
  }
},
{
  "id": "pymnt-part-2",
  "type": "ON-FULFILLMENT",
  "status": "NOT-PAID",

```

```
"collected_by": "BPP",
"tags": [
  {
    "descriptor": {
      "code": "FINAL-PAYMENT"
    }
  }
]
}
```

/confirm

BNP selects the type of fulfillment and confirms the order with one of the SNPs

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "confirm",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M4",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2025-01-08T09:30:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "type": "ILBN",
      "id": "O1",
      "state": "Created",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      }
    },
    "items": [
      {
        "id": "I1",
        "fulfillment_id": "F2",
        "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"
    },
    "phone": "9886098860",
    "email": "nobody@nomail.com",
    "created_at": "2025-01-08T09:00:00.000Z",
    "updated_at": "2025-01-08T09:00:00.000Z"
  },
  "fulfillments": [
    {
      "id": "F2",
      "type": "Self-Pickup",
      "tracking": false,
      "end": {
        "person": {
          "name": "name_of_person"
        }
      },
      "contact": {
        "email": "nobody@nomail.com",
        "phone": "9886098860"
      },
      "location": {
        "gps": "12.4535,77.9283",
        "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"
  }
}
},
],
"payments": [
  {
    "id": "3",
    "type": "PART-PAYMENT",
    "tags": [
      {
        "descriptor": {
          "code": "LINKED-PAYMENTS"
        }
      },
      {
        "list": [
          {
            "descriptor": {
              "code": "pymnt-part-1"
            },
            "value": "1"
          },
          {
            "descriptor": {
              "code": "pymnt-part-2"
            },
            "value": "2"
          }
        ]
      }
    ]
  },
  {
    "id": "pymnt-part-1",
    "type": "ON-ORDER",
    "status": "PAID",
    "collected_by": "BAP",
    "tags": [
      {
        "descriptor": {
          "code": "ADV-DEPOSIT"
        }
      }
    ]
  },
  {
    "params": {
      "amount": "2000.00",
      "currency": "INR",
      "transaction_id": "payment-utr-1234"
    }
  },
  {
    "id": "pymnt-part-2",
    "type": "ON-FULFILLMENT",
    "status": "NOT-PAID",
    "collected_by": "BPP",
    "tags": [
      {
        "descriptor": {
          "code": "FINAL-PAYMENT"
        }
      }
    ]
  }
],
"tags": [
  {
    "code": "bap_terms",
    "list": [
      {

```

```
"code": "static_terms",
"value": "https://github.com/ONDC-Official/NP-Static-Terms/buyerNP_BNP/1.0/tc.pdf"
},
{
"code": "tax_number",
"value": "gst_number_of_buyerNP"
}
]
},
"created_at": "2025-01-08T09:30:00.000Z",
"updated_at": "2025-01-08T09:30:00.000Z"
}
}
```

/on_confirm

SNP confirms the order and provides the final quote value based on the type of fulfillment. Order is created by SNP and seller might be allocated

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "on_confirm",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M4",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2025-01-08T09:30:10.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "id": "O1",
      "type": "ILBN",
      "state": "Accepted",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      }
    },
    "items": [
      {
        "id": "I1",
        "fulfillment_id": "F2",
        "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"
    },
    "phone": "9886098860",
    "email": "nobody@nomail.com",
    "created_at": "2025-01-08T09:00:00.000Z",
    "updated_at": "2025-01-08T09:00:00.000Z"
  },
  "fulfillments": [
    {
      "id": "F2",
      "type": "Self-Pickup",
      "@ondc/org/TAT": "PT2H",
      "start": {
        "location": {
          "id": "L1",
          "descriptor": {
            "name": "ABC Store"
          }
        },
        "gps": "12.9563,77.6368",
        "address": {
          "locality": "Jayanagar",
          "city": "Bengaluru",

```

```
"area_code": "560076",
"state": "KA"
},
"contact": {
"phone": "9886098860",
"email": "nobody@nomail.com"
},
"state": {
"descriptor": {
"code": "Pending"
}
},
"end": {
"person": {
"name": "name_of_person"
},
"contact": {
"email": "nobody@nomail.com",
"phone": "9886098860"
},
"location": {
"gps": "12.4535,77.9283",
"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"
}
}
},
"quote": {
"price": {
"currency": "INR",
"value": "68014.00"
},
"breakup": [
{
"@ondc/org/item_id": "I1",
"@ondc/org/item_quantity": {
"count": 1
},
"title": "Apple iPhone 14",
"@ondc/org/title_type": "item",
"price": {
"currency": "INR",
"value": "67999.00"
},
"item": {
"price": {
"currency": "INR",
"value": "67999.00"
}
}
},
{
"@ondc/org/item_id": "I1",
"title": "Tax",
"@ondc/org/title_type": "tax",
"price": {
"currency": "INR",
"value": "0.00"
}
},
{
"@ondc/org/item_id": "F2",
"title": "Delivery charges",
"@ondc/org/title_type": "delivery",
"price": {
```

```

    "currency": "INR",
    "value": "00.00"
  }
},
{
  "@ondc/org/item_id": "F2",
  "title": "Packing charges",
  "@ondc/org/title_type": "packing",
  "price": {
    "currency": "INR",
    "value": "25.00"
  }
},
{
  "@ondc/org/item_id": "I1",
  "title": "Discount",
  "@ondc/org/title_type": "discount",
  "price": {
    "currency": "INR",
    "value": "-10.00"
  }
}
],
"ttl": "P1D"
},
"payments": [
  {
    "id": "3",
    "type": "PART-PAYMENT",
    "tags": [
      {
        "descriptor": {
          "code": "LINKED-PAYMENTS"
        }
      },
      {
        "list": [
          {
            "descriptor": {
              "code": "pymnt-part-1"
            },
            "value": "1"
          },
          {
            "descriptor": {
              "code": "pymnt-part-2"
            },
            "value": "2"
          }
        ]
      }
    ]
  }
],
{
  "id": "pymnt-part-1",
  "type": "ON-ORDER",
  "status": "PAID",
  "collected_by": "BAP",
  "tags": [
    {
      "descriptor": {
        "code": "ADV-DEPOSIT"
      }
    }
  ],
  "params": {
    "amount": "2000.00",
    "currency": "INR",
    "transaction_id": "payment-utr-1234"
  }
},
{
  "id": "pymnt-part-2",
  "type": "ON-FULFILLMENT",
  "status": "NOT-PAID",
  "collected_by": "BPP",
  "tags": [

```

```
{
  "descriptor": {
    "code": "FINAL-PAYMENT"
  }
},
"params": {
  "amount": "66014.00",
  "currency": "INR"
}
],
"tags": [
  {
    "code": "bpp_terms",
    "list": [
      {
        "code": "np_type",
        "value": "MSN"
      },
      {
        "code": "tax_number",
        "value": "gst_number_of_sellerNP"
      },
      {
        "code": "provider_tax_number",
        "value": "PAN_number_of_provider"
      },
      {
        "code": "accept_bap_terms",
        "value": "Y"
      }
    ]
  },
  {
    "code": "bap_terms",
    "list": [
      {
        "code": "static_terms",
        "value": "https://github.com/ONDC-Official/NP-Static-Terms/buyerNP_BNP/1.0/tc.pdf"
      },
      {
        "code": "tax_number",
        "value": "gst_number_of_buyerNP"
      }
    ]
  }
],
"created_at": "2025-01-08T09:30:00.000Z",
"updated_at": "2025-01-08T09:30:10.000Z"
}
```

/on_update

If the seller is assigned later, the SNP can trigger /on_update to inform the BNP of the seller details.

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "on_update",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M12",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2025-01-08T10:00:30.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "id": "O1",
      "type": "ILBN",
      "state": "Accepted",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      }
    },
    "items": [
      {
        "id": "I1",
        "fulfillment_id": "F2",
        "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": "2025-01-08T09:00:00.000Z",
    "updated_at": "2025-01-08T09:00:00.000Z"
  },
  "fulfillments": [
    {
      "id": "F2",
      "type": "Self-Pickup",
      "@ondc/org/TAT": "PT2H",
      "state": {
        "descriptor": {
          "code": "Pending"
        }
      }
    }
  ],
  "start": {
    "location": {
      "descriptor": {
        "name": "ABC Store"
      }
    },
    "gps": "12.9675,77.7496",
    "address": {

```

```
"locality": "Jayanagar",
"city": "Bengaluru",
"area_code": "560076",
"state": "KA"
},
"contact": {
"phone": "9886098860",
"email": "nobody@nomail.com"
},
"@ondc/org/provider_name": "LSP or Provider name",
"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",
"area_code": "560037"
}
},
"time": {
"range": {
"start": "2025-01-08T11:00:00.000Z",
"end": "2025-01-08T11:30:00.000Z"
}
},
"person": {
"name": "name_of_person"
},
"contact": {
"phone": "9886098860"
}
},
"tags": [
{
"code": "routing",
"list": [
{
"code": "type",
"value": "P2P"
}
]
},
{
"code": "tracking",
"list": [
{
"code": "gps_enabled",
"value": "yes"
},
{
"code": "url_enabled",
"value": "no"
},
{
"code": "url",
"value": "https://snp.com/ondc/tracking_url"
}
]
}
]
},
"quote": {
"price": {
"currency": "INR",
"value": "68014.00"
}
},
"breakup": [
```

```

{
  "@ondc/org/item_id": "I1",
  "@ondc/org/item_quantity": {
    "count": 1
  },
  "title": "Apple iPhone 14",
  "@ondc/org/title_type": "item",
  "price": {
    "currency": "INR",
    "value": "67999.00"
  },
  "item": {
    "price": {
      "currency": "INR",
      "value": "67999.00"
    }
  }
},
{
  "@ondc/org/item_id": "I1",
  "title": "Tax",
  "@ondc/org/title_type": "tax",
  "price": {
    "currency": "INR",
    "value": "0.00"
  }
},
{
  "@ondc/org/item_id": "F2",
  "title": "Delivery charges",
  "@ondc/org/title_type": "delivery",
  "price": {
    "currency": "INR",
    "value": "00.00"
  }
},
{
  "@ondc/org/item_id": "F2",
  "title": "Packing charges",
  "@ondc/org/title_type": "packing",
  "price": {
    "currency": "INR",
    "value": "25.00"
  }
},
{
  "@ondc/org/item_id": "I1",
  "title": "Discount",
  "@ondc/org/title_type": "discount",
  "price": {
    "currency": "INR",
    "value": "-10.00"
  }
}
],
"ttl": "P1D"
},
"payments": [
  {
    "id": "3",
    "type": "PART-PAYMENT",
    "tags": [
      {
        "descriptor": {
          "code": "LINKED-PAYMENTS"
        }
      },
      {
        "descriptor": {
          "code": "pymnt-part-1"
        },
        "value": "1"
      }
    ],
    {
      "descriptor": {

```

```

        "code": "pymnt-part-2"
      },
      "value": "2"
    }
  ]
}
],
},
{
  "id": "pymnt-part-1",
  "type": "ON-ORDER",
  "status": "PAID",
  "collected_by": "BAP",
  "tags": [
    {
      "descriptor": {
        "code": "ADV-DEPOSIT"
      }
    }
  ],
  "params": {
    "amount": "2000.00",
    "currency": "INR",
    "transaction_id": "payment-utr-1234"
  }
},
{
  "id": "pymnt-part-2",
  "type": "ON-FULFILLMENT",
  "status": "NOT-PAID",
  "collected_by": "BPP",
  "tags": [
    {
      "descriptor": {
        "code": "FINAL-PAYMENT"
      }
    }
  ],
  "params": {
    "amount": "66014.00",
    "currency": "INR"
  }
},
],
"created_at": "2025-01-08T09:30:00.000Z",
"updated_at": "2025-01-08T10:00:30.000Z"
}
}
}

```

/update (FYI Call for Payments Update)

```

{
  "context":
  {
    "domain": "ONDC:RETINVL",
    "action": "update",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M8",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2025-01-08T13:30:00.000Z"
  },
  "message":
  {
    "update_target": "payments",
    "order":
  }
}

```

```
{
  "id": "O1",
  "fulfillments": [
    {
      "id": "F2",
      "type": "Self-pickup"
    }
  ],
  "payments": [
    {
      "id": "pymnt-part-2",
      "type": "ON-FULFILLMENT",
      "status": "PAID",
      "collected_by": "BPP",
      "tags": [
        {
          "descriptor": {
            "code": "FINAL-PAYMENT"
          }
        }
      ],
      "params": {
        "amount": "66014.00",
        "currency": "INR",
        "transaction_id": "payment-utr-5678"
      }
    }
  ]
}
```

/on_status

SNP provides status updates to the BNP.

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "on_status",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M12",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2025-01-08T10:00:30.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "id": "O1",
      "type": "ILBN",
      "state": "Completed",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      }
    },
    "items": [
      {
        "id": "I1",
        "fulfillment_id": "F2",
        "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": "2025-01-08T09:00:00.000Z",
    "updated_at": "2025-01-08T09:00:00.000Z"
  },
  "fulfillments": [
    {
      "id": "F2",
      "@ondc/org/provider_name": "LSP or Provider name",
      "type": "Self-Pickup",
      "tracking": false,
      "@ondc/org/TAT": "PT2H",
      "state": {
        "descriptor": {
          "code": "Order-picked-up"
        }
      }
    },
    {
      "start": {
        "location": {
          "descriptor": {
            "name": "ABC Store"
          }
        }
      }
    }
  ]
}
```

```
"gps": "12.9675,77.7496",
"address": {
  "locality": "Jayanagar",
  "city": "Bengaluru",
  "area_code": "560076",
  "state": "KA"
},
"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": {
    "timestamp": "2025-01-08T10:30:00.000Z"
  },
  "person": {
    "name": "name_of_person"
  },
  "contact": {
    "phone": "9886098860"
  }
},
"agent": {
  "name": "agent_name",
  "phone": "9886098860"
},
"tags": [
  {
    "code": "routing",
    "list": [
      {
        "code": "type",
        "value": "P2P"
      }
    ]
  },
  {
    "code": "tracking",
    "list": [
      {
        "code": "gps_enabled",
        "value": "yes"
      },
      {
        "code": "url_enabled",
        "value": "no"
      },
      {
        "code": "url",
        "value": "https://snp.com/ondc/tracking_url"
      }
    ]
  },
  {
    "code": "fulfillment_proof",
    "list": [
      {

```

```

        "code": "state",
        "value": "Order-picked-up"1
    },
    {
        "code": "type",
        "value": "webp"2
    },
    {
        "code": "url",
        "value": "public link to webp"
    }
]
}
],
"quote": {
    "price": {
        "currency": "INR",
        "value": "68014.00"
    },
    "breakup": [
        {
            "@ondc/org/item_id": "I1",
            "@ondc/org/item_quantity": {
                "count": 1
            },
            "title": "Apple iPhone 14",
            "@ondc/org/title_type": "item",
            "price": {
                "currency": "INR",
                "value": "67999.00"
            },
            "item": {
                "price": {
                    "currency": "INR",
                    "value": "67999.00"
                }
            }
        },
        {
            "@ondc/org/item_id": "I1",
            "title": "Tax",
            "@ondc/org/title_type": "tax",
            "price": {
                "currency": "INR",
                "value": "0.00"
            }
        },
        {
            "@ondc/org/item_id": "F2",
            "title": "Delivery charges",
            "@ondc/org/title_type": "delivery",
            "price": {
                "currency": "INR",
                "value": "00.00"
            }
        },
        {
            "@ondc/org/item_id": "F2",
            "title": "Packing charges",
            "@ondc/org/title_type": "packing",
            "price": {
                "currency": "INR",
                "value": "25.00"
            }
        }
    ],
    {
        "@ondc/org/item_id": "I1",

```

¹ enum for order state - "Order-picked-up" (pickup), "Order-delivered" (delivery);

² enum - "webp", "png", "jpeg", "pdf";

```
"title": "Discount",
"@ondc/org/title_type": "discount",
"price": {
  "currency": "INR",
  "value": "-10.00"
}
},
"ttl": "P1D"
},
"payments": [
  {
    "id": "3",
    "type": "PART-PAYMENT",
    "tags": [
      {
        "descriptor": {
          "code": "LINKED-PAYMENTS"
        }
      },
      {
        "list": [
          {
            "descriptor": {
              "code": "pymnt-part-1"
            },
            "value": "1"
          },
          {
            "descriptor": {
              "code": "pymnt-part-2"
            },
            "value": "2"
          }
        ]
      }
    ]
  }
],
{
  "id": "pymnt-part-1",
  "type": "ON-ORDER",
  "status": "PAID",
  "collected_by": "BAP",
  "tags": [
    {
      "descriptor": {
        "code": "ADV-DEPOSIT"
      }
    }
  ]
},
"params": {
  "amount": "2000.00",
  "currency": "INR",
  "transaction_id": "payment-utr-1234"
}
},
{
  "id": "pymnt-part-2",
  "type": "ON-FULFILLMENT",
  "status": "PAID",
  "collected_by": "BPP",
  "tags": [
    {
      "descriptor": {
        "code": "FINAL-PAYMENT"
      }
    }
  ],
  "params": {
    "amount": "66014.00",
    "currency": "INR",
    "transaction_id": "payment-utr-5678"
  }
}
],
"documents": [
  {
```

```
    "url": "https://invoice_url",  
    "label": "Invoice"  
  }  
],  
  "created_at": "2025-01-08T09:30:00.000Z",  
  "updated_at": "2025-01-08T10:00:30.000Z"  
}  
}
```

/cancel

Buyer cancels the order using appropriate reason code

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "country": "IND",
    "city": "std:080",
    "action": "cancel",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M10",
    "timestamp": "2025-01-08T11:00:00.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order_id": "O1",
    "type": "ILBN",
    "cancellation_reason_id": "006"
  }
}
```

/on_cancel

SNP accepts the cancellation and responds with the updated quote

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "country": "IND",
    "city": "std:080",
    "action": "on_cancel",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M10",
    "timestamp": "2025-01-08T11:00:30.000Z",
    "ttl": "PT30S"
  },
  "message": {
    "order": {
      "id": "O1",
      "type": "ILBN",
      "state": "Cancelled",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      }
    },
    "items": [
      {
        "id": "I1",
        "fulfillment_id": "F2",
        "quantity": {
          "count": 0
        }
      },
      {
        "id": "I1",
        "fulfillment_id": "C1",
        "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": "2025-01-08T09:00:00.000Z",
    "updated_at": "2025-01-08T09:00:00.000Z"
  },
  "cancellation": {
    "cancelled_by": "bnp.com",
    "reason": {
      "id": "006"
    }
  },
  "fulfillments": [
    {
      "id": "F2",

```

```
"state": {
  "descriptor": {
    "code": "Cancelled"
  }
},
"type": "Self-Pickup",
"@ondc/org/TAT": "PT2H",
"start": {
  "location": {
    "descriptor": {
      "name": "ABC Store"
    },
    "gps": "12.9563,77.6368",
    "address": {
      "locality": "Jayanagar",
      "city": "Bengaluru",
      "area_code": "560076",
      "state": "KA"
    }
  },
  "contact": {
    "phone": "9886098860",
    "email": "nobody@nomail.com"
  }
},
"tags": [
  {
    "code": "cancel_request",
    "list": [
      {
        "code": "reason_id",
        "value": "006"
      },
      {
        "code": "initiated_by",
        "value": "bnp.com"
      }
    ]
  },
  {
    "code": "igm_request",
    "list": [
      {
        "code": "id",
        "value": "Issue1"
      }
    ]
  },
  {
    "code": "precancel_state",
    "list": [
      {
        "code": "fulfillment_state",
        "value": "Packed"
      },
      {
        "code": "updated_at",
        "value": "2025-01-08T10:45:00.000Z"
      }
    ]
  }
],
{
  "id": "C1",
  "type": "Cancel",
  "state": {
    "descriptor": {
      "code": "Cancelled"
    }
  }
},
"quote": {
  "price": {
```

```
"currency": "INR",
"value": "15.00"
},
"breakup": [
  {
    "@ondc/org/item_id": "I1",
    "@ondc/org/item_quantity": {
      "count": 0
    },
    "title": "Apple iPhone 14",
    "@ondc/org/title_type": "item",
    "price": {
      "currency": "INR",
      "value": "0.00"
    },
    "item": {
      "price": {
        "currency": "INR",
        "value": "67999.00"
      }
    }
  },
  {
    "@ondc/org/item_id": "I1",
    "title": "Tax",
    "@ondc/org/title_type": "tax",
    "price": {
      "currency": "INR",
      "value": "0.00"
    }
  },
  {
    "@ondc/org/item_id": "F2",
    "title": "Delivery charges",
    "@ondc/org/title_type": "delivery",
    "price": {
      "currency": "INR",
      "value": "00.00"
    }
  },
  {
    "@ondc/org/item_id": "F2",
    "title": "Packing charges",
    "@ondc/org/title_type": "packing",
    "price": {
      "currency": "INR",
      "value": "25.00"
    }
  },
  {
    "@ondc/org/item_id": "I1",
    "title": "Discount",
    "@ondc/org/title_type": "discount",
    "price": {
      "currency": "INR",
      "value": "-10.00"
    }
  }
],
"ttl": "P1D"
},
"payments": [
  {
    "id": "3",
    "type": "PART-PAYMENT",
    "tags": [
      {
        "descriptor": {
          "code": "LINKED-PAYMENTS"
        },
        "list": [
          {
            "descriptor": {
              "code": "pymnt-part-1"
            }
          }
        ]
      }
    ]
  }
]
```

```
    "value": "1"
  },
  {
    "descriptor": {
      "code": "pymnt-part-2"
    },
    "value": "2"
  }
]
}
},
{
  "id": "pymnt-part-1",
  "type": "ON-ORDER",
  "status": "PAID",
  "collected_by": "BAP",
  "tags": [
    {
      "descriptor": {
        "code": "ADV-DEPOSIT"
      }
    }
  ],
  "params": {
    "amount": "2000.00",
    "currency": "INR",
    "transaction_id": "payment-utr-1234"
  }
},
{
  "id": "pymnt-part-2",
  "type": "ON-FULFILLMENT",
  "status": "NOT-PAID",
  "collected_by": "BPP",
  "tags": [
    {
      "descriptor": {
        "code": "FINAL-PAYMENT"
      }
    }
  ],
  "params": {
    "amount": "66014.00",
    "currency": "INR"
  }
},
],
"created_at": "2025-01-08T09:30:00.000Z",
"updated_at": "2025-01-08T11:00:30.000Z"
}
}
```

Find me the Product (Item not available in the catalog)

If the item is not available in the catalog, buyers can search by uploading an image or providing a description. The rest of the transaction remains the same as in the Buy Now journey.

/search

BNP initiates an item specific search request if the cached catalogs don't have the required item. Item image/GTIN/description could be provided to find the product. SNP responds with the filtered catalog in /on_search.

```
{
  "context": {
    "action": "search",
    "ttl": "PT2H"
    ...
  },
  "message": {
    "intent": {
      "item": {
        "descriptor": {
          "name": "white sneakers",
          "code": "3:GTIN#",
          "images": [
            "https://sneaker-image.bnp.com"
          ]
        }
      }
    },
    "fulfillment": {
      "type": "Delivery",
      "end": {
        "location": {
          "gps": "12.9740,77.6134",
          "address": {
            "area_code": "560001"
          }
        }
      }
    }
  },
  "payment": {
    "@ondc/org/buyer_app_finder_fee_type": "percent",
    "@ondc/org/buyer_app_finder_fee_amount": "3.54"
  },
  "tags": [
    {
      "code": "bap_terms",
      "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": "2025-02-01T00:00:00.000Z"
    }
  ]
}
```

/init

If the item is present in the catalog, BNP directly initiates the cart with order intent as ILFP with all the relevant SNPs. SNPs inform their sellers and respond back with the available fulfillment and payment options.

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "init",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M3",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2025-01-08T09:00:00.000Z",
    "ttl": "PT2H"
  },
  "message": {
    "order": {
      "type": "ILFP",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      }
    },
    "items": [
      {
        "id": "I1",
        "quantity": {
          "count": 1
        }
      }
    ],
    "fulfillments": [
      {
        "id": "F1",
        "type": "Delivery",
        "end": {
          "location": {
            "gps": "12.4535,77.9283",
            "address": {
              "area_code": "560037"
            }
          }
        }
      }
    ]
  }
}
```

Find Best Price

/init

BNP initiates the best price intent with all the relevant SNPs, using distinct transaction_id and message_id values. Each SNP responds with its best price as part of the quote breakup, along with the available fulfillment and payment options.

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "init",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M3",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2025-01-08T09:00:00.000Z",
    "ttl": "PT2H"
  },
  "message": {
    "order": {
      "type": "ILBP",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      }
    },
    "items": [
      {
        "id": "I1",
        "descriptor": {
          "code": "3:GTIN#"
        },
        "quantity": {
          "count": 1
        }
      }
    ],
    "fulfillments": [...]
  }
}
```

/init (FYI with the best price)

BNP collects all quotations from the various seller apps and determines the best price after comparing the available options.

BNP may then notify all SNPs of the lowest price and request updated quotations from them. SNP may choose to respond with the new quotation or respond back with the same quote breakup.

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "init",
    "bpp_id": "snp2.com",
    "bpp_uri": "https://snp2.com/ondc",
    ...
  },
  "message": {
    "order": {
      "type": "ILBP",
      "provider": {
        "id": "provider-123",
        "locations": [
          {
            "id": "location-123"
          }
        ]
      },
    },
    "items": [
      {
        "id": "item-123",
        "fulfillment_id": "F1",
        "quantity": { "count": 1 },
        "tags": [
          {
            "code": "bidding",
            "list": [
              {
                "code": "lowest_bid",
                "value": "67700"
              },
              {
                "code": "round",
                "value": "1"
              }
            ]
          }
        ]
      }
    ]
  }
}
```

/on_init (response with the updated quote)

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "on_update",
    "bpp_id": "snp2.com",
    "bpp_uri": "https://snp2.com/ondc",
    ...
  },
  "message": {
    "order": {
      "provider": {
        "id": "provider-123",
        "locations": [
          {
            "id": "location-123"
          }
        ]
      },
      "items": [
        {
          "id": "item-123",
          "quantity": { "count": 1 }
        }
      ],
      "quote": {
        "price": {
          "currency": "INR",
          "value": "67500"
        },
        "breakup": [
          {
            "@ondc/org/title_type": "item",
            "price": { "currency": "INR", "value": "67500" },
            "item": {
              ...
              "tags": [
                {
                  "code": "bidding",
                  "list": [
                    {
                      "code": "round",
                      "value": "1"
                    }
                  ]
                }
              ]
            }
          }
        ]
      },
      ...
    },
    "fulfillments": [...],
    "payments": [...]
  }
}
```

The buyer places the order, and the SNP provides status updates based on the allocated seller and the defined TAT.

Offer (discount)

```
{
  "context":
  {
    "action": "on_search",
    "core_version": "1.2.5",
    ..
  },
  "message":
  {
    "catalog":
    {
      ..
      "bpp/providers":
      [
        {
          "id": "P1",
          ..
          "items":
          [
            {
              "id": "I1",
              ..
            },
            {
              "id": "I2",
              ..
            },
            {
              "id": "I3",
              ..
            }
          ]
        },
        ..
      ],
      "offers":
      [
        {
          "id": "discp60",
          "descriptor":
          {
            "code": "discount",
            "images":
            [
              "https://snp.com/images/offer1-banner.webp"
            ]
          },
          "location_ids":
          [
            "L1"
          ],
          "category_ids":
          [
            ..
          ],
          "fulfillment_ids":
          [
            ..
          ],
          "payment_ids":
          [
            ..
          ],
          "item_ids":
          [
            "I1"
          ],
          "time":
          {
            "label": "valid",
            "range":
            {
              "start": "2025-01-01T16:00:00.000Z",
              "end": "2025-01-01T23:00:00.000Z"
            }
          }
        },
        ..
      ],
    }
  }
}
```

```
"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": "additive",
        "value": "yes"
      },
      {
        "code": "auto",
        "value": "no"
      }
    ]
  }
],
{
  "id": "flat150",
  "descriptor":
  {
    "code": "discount",
    "images":
    [
      "https://snp.com/images/offer2-banner.webp"
    ]
  },
  "location_ids":
  [
    "L1"
  ],
  "item_ids":
  [
    "I1"
  ],
  "time":
  {
    "label": "valid",
    "range":
    {
      "start": "2025-01-01T16:00:00.000Z",
      "end": "2025-01-01T23:00:00.000Z"
    }
  }
},
"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": "yes"
        },
        {
          "code": "auto",
          "value": "yes"
        }
      ]
    }
  ],
  ...
}

```

Apply offer

```

{
  "context": {
    {
      "action": "init",
      "core_version": "1.2.5",
      ...
    },
    "message": {
      "order": {
        {
          ...
          "offers": [
            {
              "id": "discp60",
            }
          ],
          ...
        }
      }
    }
  }
}

```

```

{
  "action":"on_init",
  "core_version":"1.2.5",
  ..
},
"message":
{
  "order":
  {
    ..
    "quote":
    {
      ..
      "breakup":
      [
        ..
        {
          "@ondc/org/item_id":"flat150",
          "title":"Flat ₹150 off on ₹499 minimum cart value",
          "@ondc/org/title_type":"offer",
          "price":
          {
            "currency":"INR",
            "value":"-150.00"
          },
          "item":
          {
            "tags":
            [
              {
                "code":"quote",
                "list":
                [
                  {
                    "code":"type",
                    "value":"order"
                  }
                ]
              },
              {
                "code":"offer",
                "list":
                [
                  {
                    "code":"type",
                    "value":"discount"
                  },
                  {
                    "code":"additive",
                    "value":"yes"
                  },
                  {
                    "code":"auto",
                    "value":"yes"
                  }
                ]
              }
            ]
          }
        }
      ],
      {
        "@ondc/org/item_id":"discp60",
        "title":"₹120 off on minimum cart value of ₹159",
        "@ondc/org/title_type":"offer",
        "price":
        {
          "currency":"INR",
          "value":"-120.00"
        },
        "item":
        {
          "tags":
          [
            {
              "code":"quote",

```



```

{
  "id": "freebie1",
  "descriptor":
  {
    "code": "freebie",
    "images3":
    [
      "https://snp.com/images/offer3-banner.png"
    ]
  },
  "location_ids":
  [
    "L1"
  ],
  "category_ids":
  [
    ""
  ],
  "item_ids":
  [
    "I1"
  ],
  "time":
  {
    "label": "valid",
    "range":
    {
      "start": "2025-01-01T16:00:00.000Z",
      "end": "2025-01-01T23:00:00.000Z"
    }
  },
  "tags":
  [
    {
      "code": "qualifier",
      "list":
      [
        {
          "code": "min_value",
          "value": "598.00"
        }
      ]
    },
    {
      "code": "benefit",
      "list":
      [
        {
          "code": "item_count",
          "value": "1"
        },
        {
          "code": "item_id",
          "value": "I4"
        }
      ]
    },
    {
      "code": "meta",
      "list":
      [
        {
          "code": "additive",
          "value": "no"
        },
        {
          "code": "auto",
          "value": "yes"
        }
      ]
    }
  ]
}

```

³ optional

```
1,  
  }  
  ]  
}  
}
```

Apply offer

```
{  
  "context":  
  {  
    "action": "on_init",  
    "core_version": "1.2.5",  
    ..  
  },  
  "message":  
  {  
    "order":  
    {  
      ..  
      "quote":  
      {  
        "price":  
        {  
          ..  
        },  
        "breakup":  
        [  
          {  
            ..  
          },  
          {  
            "@ondc/org/item_id": "freebie1",  
            "@ondc/org/item_quantity":  
            {  
              "count": 1  
            },  
            "title": "Free item of ₹200 on minimum cart value of ₹598",  
            "@ondc/org/title_type": "offer",  
            "price":  
            {  
              "currency": "INR",  
              "value": "0.00"  
            },  
            "item":  
            {  
              "tags":  
              [  
                {  
                  "code": "quote",  
                  "list":  
                  [  
                    {  
                      "code": "type",  
                      "value": "order"  
                    }  
                  ]  
                },  
                {  
                  "code": "offer",  
                  "list":  
                  [  
                    {  
                      "code": "type",  
                      "value": "freebie"  
                    },  
                    {  
                      "code": "auto",  
                      "value": "yes"  
                    },  
                    {  
                      "code": "additive",  
                      "value": "no"  
                    }  
                  ]  
                }  
              ]  
            }  
          }  
        ]  
      }  
    }  
  }  
}
```



```
..
},
"message":
{
  "catalog":
  {
    ..
    "bpp/providers":
    [
      {
        "id": "P1",
        ..
        "items":
        [
          {
            "id": "I1",
            ..
          },
          {
            "id": "I2",
            ..
          },
          {
            "id": "I3",
            ..
          }
        ],
        ..
      },
      ..
    ],
    "offers":
    [
      {
        "id": "delivery1",
        "descriptor":
        {
          "code": "delivery",
          "images":
          [
            "https://snp.com/images/offer1-banner.webp"
          ]
        },
        "location_ids":
        [
          "L1"
        ],
        "category_ids":
        [
          ..
        ],
        "item_ids":
        [
          "I1"
        ],
        "time":
        {
          "label": "valid",
          "range":
          {
            "start": "2025-01-01T16:00:00.000Z",
            "end": "2025-01-01T23:00:00.000Z"
          }
        },
        "tags":
        [
          {
            "code": "qualifier",
            "list":
            [
              {
                "code": "min_value",
                "value": "299.00"
              }
            ]
          },
          ..
          {
            "code": "benefit",
            "list":
            [
              ..
            ]
          }
        ]
      },
      ..
    ]
  }
}
```



```
"descriptor":
{
  "code":"financing",
  "images":
  [
    "https://snp.com/images/offer2-banner.webp"
  ]
},
"location_ids":
[
  "L1"
],
"category_ids":
[
  ""
],
"item_ids":
[
  "I1"
],
"time":
{
  "label":"valid",
  "range":
  {
    "start":"2025-01-01T16:00:00.000Z",
    "end":"2025-01-01T23:00:00.000Z"
  }
},
"tags":
[
  {
    "code":"meta",
    "list":
    [
      {
        "code":"additive",
        "value":"yes"
      },
      {
        "code":"auto",
        "value":"yes"
      }
    ]
  }
],
},
},
}
```

Offer (EMI)

EMI offer is optional with all the available emi options on the item(s). The SNP provides a redirection url along with the offer description to check the eligibility of the offer.

/on_search

```
{
  "offers": [
    {
      "id": "abc_emi",
      "descriptor": {
        "code": "emi",
        "name": "EMI options available"
      },
      "item_ids": ["I1", "I2"],
      "time": {
        "label": "valid",
        "range": {
          "start": "2025-01-01T00:00:00Z",
          "end": "2025-12-31T23:59:59Z"
        }
      },
      "tags": [
        {
          "code": "benefit",
          "list": [
            {
              "code": "tenure_options",
              "value": "3,6,9"
            },
            {
              "code": "interest_rates",
              "value": "0,12,14"
            },
            {
              "code": "monthly_installments",
              "value": "22666.00,12693.00,8613.00"
            },
            { "code": "total_payable", "value": "67999,76158,77517" },
            {
              "code": "eligibility_check_url",
              "value": "https://snp.com/emi-check"
            }
          ]
        }
      ],
      "code": "meta",
      "list": [
        { "code": "auto", "value": "no" },
        { "code": "additive", "value": "no" }
      ]
    }
  ]
}
```

/on_init

SNP sends link to avail EMI offer

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "on_init",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M3",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2025-01-08T09:00:30.000Z"
  },
  "message": {
    "order": {
      "type": "ILBN",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      },
      "items": [
        {
          "id": "I1",
          "descriptor": {
            "code": "3:GTIN#"
          },
          "quantity": {
            "count": 1
          }
        }
      ],
      "fulfillments": [
        {
          "id": "F1",
          "type": "Delivery",
          "tracking": false,
          "end": {
            "location": {
              "gps": "12.4535,77.9283",
              "address": {
                "area_code": "560037"
              }
            }
          }
        }
      ],
      "quote": {
        "price": {
          "currency": "INR",
          "value": "67999.00"
        }
      },
      "breakup": [
        {
          "@ondc/org/item_id": "I1",
          "@ondc/org/item_quantity": {
            "count": 1
          }
        }
      ]
    }
  }
}
```

```
},
"title": "Apple iPhone 14",
"@ondc/org/title_type": "item",
"price": {
  "currency": "INR",
  "value": "67999.00"
},
"item": {
  "price": {
    "currency": "INR",
    "value": "67999.00"
  }
}
},
{
"@ondc/org/item_id": "abc_emi",
"title": "EMI options available",
"@ondc/org/title_type": "offer",
"price": {
  "currency": "INR",
  "value": "0.00"
},
"item": {
  "tags": [
    {
      "code": "quote",
      "list": [{"code": "type", "value": "order" }]
    },
    {
      "code": "offer",
      "list": [
        {"code": "type", "value": "emi" },
        {"code": "auto", "value": "no" },
        {"code": "additive", "value": "no" }
      ]
    }
  ]
}
}
],
"ttl": "P1D"
},
"payments": [
{
  "id": "1",
  "type": "ON-ORDER",
  "url": "https://snp.com/avail-emi",
  "status": "NOT-PAID",
  "collected_by": "BPP"
}
]
}
}
```

on_init (unsolicited)

SNP informs BNP regarding the payment status as per the selected EMI offer

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "on_init",
    "core_version": "1.2.5",
    "bap_id": "bnp.com",
    "bap_uri": "https://bnp.com/ondc",
    "bpp_id": "snp.com",
    "bpp_uri": "https://snp.com/ondc",
    "transaction_id": "T2",
    "message_id": "M3#",
    "city": "std:080",
    "country": "IND",
    "timestamp": "2025-01-08T09:00:30.000Z"
  },
  "message": {
    "order": {
      "type": "ILBN",
      "provider": {
        "id": "P1",
        "locations": [
          {
            "id": "L1"
          }
        ]
      },
      "items": [
        {
          "id": "I1",
          "descriptor": {
            "code": "3:GTIN#"
          },
          "quantity": {
            "count": 1
          }
        }
      ],
      "fulfillments": [
        {
          "id": "F1",
          "type": "Delivery",
          "tracking": false,
          "end": {
            "location": {
              "gps": "12.4535,77.9283",
              "address": {
                "area_code": "560037"
              }
            }
          }
        }
      ],
      "quote": {
        "price": {
          "currency": "INR",
          "value": "67999.00"
        }
      },
      "breakup": [
        {
          "@ondc/org/item_id": "I1",
          "@ondc/org/item_quantity": {
            "count": 1
          }
        }
      ]
    }
  }
}
```

```
},
"title": "Apple iPhone 14",
"@ondc/org/title_type": "item",
"price": {
  "currency": "INR",
  "value": "67999.00"
},
"item": {
  "price": {
    "currency": "INR",
    "value": "67999.00"
  }
}
},
{
"@ondc/org/item_id": "abc_emi",
"title": "EMI options available",
"@ondc/org/title_type": "offer",
"price": {
  "currency": "INR",
  "value": "0.00"
},
"item": {
  "tags": [
    {
      "code": "quote",
      "list": [{"code": "type", "value": "order" }]
    },
    {
      "code": "offer",
      "list": [
        {"code": "type", "value": "emi" },
        {"code": "auto", "value": "no" },
        {"code": "additive", "value": "no" }
      ]
    },
    {
      "code": "finance_txn",
      "list": [
        {
          "code": "loan_completed",
          "value": "yes"
        },
        {
          "code": "down_payment",
          "value": "1000.00"
        },
        {
          "code": "loan_amount",
          "value": "9000.00"
        },
        {
          "code": "timestamp",
          "value": "2025-01-08T09:30:00.000Z"
        }
      ]
    }
  ]
}
]
},
"ttl": "P1D"
},
"payments": [
  {
    "id": "1",
```

```
"type": "ON-ORDER",
"url": "https://snp.com/avail-emi",
"status": "PAID",
"collected_by": "BPP",
"params": {
  "currency": "INR",
  "transaction_id": "3937",
  "amount": ".."
},

"tags": [
  {
    "code": "bpp_collect",
    "list": [
      {
        "code": "success",
        "value": "Y"
      },
      {
        "code": "error",
        "value": ".."
      }
    ]
  }
]
}
}
}
}
}
```

Serviceability Construct

Radial

```
{
  "bpp/providers": [
    {
      "id": "18275-ONDC-1",
      "locations": [
        {
          "id": "abc-store-location-id-1",
          "gps": "12.967555,77.749666",
          "address": {
            "area_code": "560076",
            "state": "KA"
          }
        }
      ]
    },
    {
      "tags": [
        {
          "code": "serviceability",
          "list": [
            {
              "code": "location",
              "value": "abc-store-location-id-1"
            },
            {
              "code": "category",
              "value": "Mobile Phone"
            },
            {
              "code": "type",
              "value": "10"
            },
            {
              "code": "val",
              "value": "5"
            },
            {
              "code": "unit",
              "value": "km"
            }
          ]
        }
      ]
    },
    {
      "code": "serviceability",
      "list": [
        {
          "code": "location",
          "value": "abc-store-location-id-1"
        },
        {
          "code": "category",
          "value": "Laptop"
        },
        {
          "code": "type",
          "value": "10"
        },
        {
          "code": "val",
          "value": "3"
        }
      ]
    }
  ]
}
```

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

Pincode

```
{
  "bpp/providers": [
    {
      "id": "18275-ONDC-1",
      "locations": [
        {
          "id": "abc-store-location-id-1",
          "gps": "12.967555,77.749666",
          "address": {
            "area_code": "560076",
            "state": "KA"
          }
        }
      ],
      "tags": [
        {
          "code": "serviceability",
          "list": [
            {
              "code": "location",
              "value": "abc-store-location-id-1"
            },
            {
              "code": "category",
              "value": "Mobile Phone"
            },
            {
              "code": "type",
              "value": "11"
            },
            {
              "code": "val",
              "value": "560001-560076,560083"
            },
            {
              "code": "unit",
              "value": "pincode"
            }
          ]
        }
      ]
    }
  ]
}
```

Pan-India

```
{
  "bpp/providers": [
    {
      "id": "18275-ONDC-1",
      "locations": [
        {
          "id": "abc-store-location-id-1",
          "gps": "12.967555,77.749666",
          "address": {
            "area_code": "560076",
            "state": "KA"
          }
        }
      ],
      "tags": [
        {
          "code": "serviceability",
          "list": [
            {
              "code": "location",
              "value": "abc-store-location-id-1"
            },
            {
              "code": "category",
              "value": "Mobile Phone"
            },
            {
              "code": "type",
              "value": "12"
            },
            {
              "code": "val",
              "value": "IND"
            },
            {
              "code": "unit",
              "value": "country"
            }
          ]
        }
      ]
    }
  ]
}
```

Polygon/Multi-Polygon

```
{
  "bpp/providers": [
    {
      "id": "18275-ONDC-1",
      "locations": [
        {
          "id": "abc-store-location-id-1",
          "gps": "12.967555,77.749666",
          "address": {
            "area_code": "560076",
            "state": "KA"
          }
        }
      ]
    }
  ]
}
```

```

],
"tags": [
  {
    "code": "serviceability",
    "list": [
      {
        "code": "location",
        "value": "abc-store-location-id-1"
      },
      {
        "code": "category",
        "value": "Mobile Phone"
      },
      {
        "code": "type",
        "value": "13"
      },
      {
        "code": "unit",
        "value": "geojson"
      },
      {
        "code": "val",
        "value": "{\"type\": \"FeatureCollection\", \"features\": [{\"type\": \"Feature\", \"properties\": {}, \"geometry\": {\"coordinates\": [[[77.1755, 28.6759], [77.1287, 28.6009], [77.4469, 28.5453], [77.1755, 28.6759]]], \"type\": \"Polygon\"}}]}"
      }
    ]
  },
  {
    "code": "serviceability",
    "list": [
      {
        "code": "location",
        "value": "abc-store-location-id-1"
      },
      {
        "code": "category",
        "value": "Mobile Phone"
      },
      {
        "code": "type",
        "value": "13"
      },
      {
        "code": "unit",
        "value": "geojson"
      },
      {
        "code": "val",
        "value": "{\"type\": \"FeatureCollection\", \"features\": [{\"type\": \"Feature\", \"properties\": {}, \"geometry\": {\"coordinates\": [[[77.4366, 14.6230], [75.5973, 13.2507], [76.8359, 11.9329], [78.7709, 11.3290]]], [[75.6948, 15.9928], [74.8319, 14.8515], [77.4006, 15.1229], [75.6948, 15.9928]]]], \"type\": \"MultiPolygon\"}}}"
      }
    ]
  }
]
}
]
}
}

```

Scenarios

IMEI Number Verification Flow

This flow enables IMEI-based device verification for ONDC orders after the order has been accepted by the seller.

Flow Description

1. The buyer places an order for a device/product that requires IMEI verification.
2. The seller accepts the order and sends the updated order state in the /on_status callback with order state as Accepted.
3. After acceptance, the seller assigns the IMEI number(s) to the ordered item(s) and shares the IMEI details with the buyer application using the /on_update callback.
4. The IMEI details are shared at the item level using items[].tags[] with code = verify, where:
 - o type = IMEI
 - o value = <imei_number>
5. Once the buyer application receives the IMEI details, it performs IMEI verification through its verification system or external verification provider.
6. The buyer application then informs the seller about the verification result using the /update API call.
7. The verification response can contain:
 - o status = valid
 - o or status = invalid
8. If verification fails, the buyer application may retry verification and send updated retry attempts using:
 - o retry_count
9. The seller can use this verification status for operational workflows such as:
 - o shipment approval,
 - o fraud prevention,
 - o compliance checks,
 - o or order fulfillment validation.
10. The buyer application may also share:
 - o max_retry_count to indicate the maximum number of verification retry attempts allowed for the IMEI verification flow.

Payload Changes:

/on_status:

SNP provides status updates to the BNP.

```
{
  "context": {
    "domain": "ONDC:RETINVL",
    "action": "on_status",
    ...
  },
  "message": {
    "order": {
      "state": "Accepted",
      "items": [
        {
          "id": "I1",
          "fulfillment_id": "F1",
          "quantity": {
            "count": 1
          }
        }
      ]
    },
    ...
  }
}
```

```
}  
}  
}
```

Seller App will send imei no to buyer via /on_update call to buyer once order is accepted by seller

```
{  
  "context":  
  {  
    "action": "on_update",  
    "core_version": "1.2.5",  
    ..  
  },  
  "message":  
  {  
    "order":  
    {  
      "id": "O1",  
      "state": "Accepted"  
    },  
    ..  
    "items":  
    [  
      {  
        "id": "I1",  
        "fulfillment_id": "F1",  
        "quantity":  
        {  
          "count": 1  
        },  
        "tags":  
        [  
          ..  
          {  
            "code": "verify"4,  
            "list":  
            [  
              {  
                "code": "type",  
                "value": "IMEI"  
              },  
              {  
                "code": "value",  
                "value": "123456789012345"  
              }  
            ]  
          }  
        ]  
      }  
    ],  
    ..  
  ],  
  ..  
}  
}
```

Buyer will update the verification status via /update call (FYI Call, no on_update callback required).

```
{  
  "context": {  
    "action": "update",  
    "core_version": "1.2.5"  
  },  
  "message": {
```

⁴ item verification attr (IMEI no in this case) - may be provided at or after order is accepted, for forward shipment;


```

    },
    "tags":
    [
      ..
      {
        "code": "verify"5,
        "list":
        [
          {
            "code": "type",
            "value": "IMEI"
          },
          {
            "code": "value",
            "value": "123456789000001"
          }
        ]
      }
    ]
  },
  ..
],
..
}
]
..
}
}
}
}

{
  "context": {
    "action": "update",
    "core_version": "1.2.5"
  },
  "message": {
    "update_target": "item",
    "order": {
      "id": "O1",
      "items": [
        {
          "id": "I1",
          "fulfillment_id": "F1",
          "tags": [
            {
              "code": "verify",
              "list": [
                {
                  "code": "type",
                  "value": "IMEI"
                },
                {
                  "code": "value",
                  "value": "123456789000001"
                },
                {
                  "code": "status",
                  "value": "valid"
                },
                {
                  "code": "retry_count",
                  "value": "2"
                },
                {
                  "code": "max_retry_count",
                  "value": "2"
                }
              ]
            }
          ]
        }
      ]
    }
  }
}

```

⁵ item verification attr (IMEI no in this case) - may be provided at or after order is accepted, for forward shipment;

```
}
  ]
}
  ]
}
}
}
```

OTP FLOW (Delivery Auth)

Delivery verification modes include:

- DCC (Static) - static for the order, without any time validity;
- Dynamic OTP - OTP with time validity.

Proposed flow for verification

SNP creates verification codes for both pickup and delivery verification.

The verification details may optionally be shared during /on_confirm or can later be updated through the /on_update API. However, sharing the verification details in the appropriate /on_status flow is mandatory.

SNP sends the verification details to:

- BNP through /on_confirm
- Logistics Seller Provider (LSP) through /confirm

LSP should not forward the delivery OTP/DCC to the rider, as it will be provided directly by the end buyer during verification.

Pickup verification (PCC)

PCC (Pickup Confirmation Code) is used for pickup verification.

Delivery verification (DCC)

Delivery verification is used at the fulfillment end level.

- DCC/Dynamic OTP is mandatory in:
 - on_status (Out-for-delivery)
- DCC/Dynamic OTP may also be shared earlier through:
 - /on_confirm
 - can later be updated through the /on_update API

Delivery flow

- Buyer provides the delivery OTP/DCC at the time of order delivery.
- Rider updates the fulfillment state to Order-delivered along with the delivery verification code in /on_status for verification by the LSP.

Both static DCC and dynamic OTP can be supported at the fulfillment start and end levels depending on whether the verification is for pickup or delivery.

Example payloads:

```
{
```

```

"context":
{
  "action": "on_status"6,
  "core_version": "1.2.5",
  ..
},
"message":
{
  "order":
  {
    "id": "O1",
    ..
    "fulfillments":
    [
      {
        "id": "F1",
        ..
        "end":
        {
          "instructions"7:
          {
            "code": "2"8,
            "short_desc": "5432",
            ..
          },
          ..
        },
        ..
      },
      ..
    ],
    ..
  }
}
}

```

Dynamic OTP

- OTP has validity duration.
- OTP should be sent in:
fulfillments[].end.authorization.token
- authorization.valid_from and authorization.valid_to should also be present.
- instructions object will have code:1

Example payloads:

```

{
  "context":
  {
    "action": "on_status"9,
    "core_version": "1.2.5",
    ..
  },
  "message":
  {
    "order":
    {
      "id": "O1",
      ..
      "fulfillments":
      [
        {

```

⁶ can be sent in /on_confirm, /on_update or /on_status;

⁷ **updated DCC;**

⁸ enum - "1" - OTP, "2" - other DCC, "3" - no delivery code;

⁹ can be sent in /on_confirm, /on_update or /on_status;

```

"id": "F1",
..
"end":
{
  "instructions":
  {
    "code": "1",
  },
  "authorization"10:
  {
    "type": "OTP"11,
    "token": "OTP code",
    "valid_from": "2025-01-10T18:00:00.000Z",
    "valid_to": "2025-01-10T22:00:00.000Z"
  }
},
..
],
..
}
}
}

```

Commercial Model for BNP/SNP

Buyer Finder Fee (BFF) in /search becomes optional, to ensure backward compatibility;

- SNP communicates the following as part of full catalog refresh (/on_search):
 - commercials at provider / category / item level;
 - commercials at item level overrides value at category level, which overrides value at provider level;
- Handling of possible scenarios:
 - BNP sends BFF in full catalog refresh (/search):
 - SNP responds with their commercial model => SNP commercial model overrides BNP BFF;
 - SNP doesn't respond with their commercial model => BNP BFF applies;
 - BNP doesn't send BFF in full catalog /search:
 - SNP responds with their commercial model => SNP commercial model applies;
 - SNP doesn't respond with their commercial model => channel margin to be considered as 0;
- SNP applies channel margin (at item level) and sends as part of quote (/on_init):
 - commercials, at item level, can override values at category and provider level, specified in full catalog refresh;
 - commercials applied using the convenience fee quote line item type (title_type="misc");
 - If there are multiple options for commercials, there will be separate quote line items for each such option;
 - BNP selects a specific option for each item and sends as part of /confirm;
 - In response, SNP sends the updated quote (including the quote line item for selected option) in /on_confirm;
- BNP reserves the right to reject the catalog and not proceed with the transaction flow if the pricing, commercials, BFF, or any other commercial terms communicated by the SNP do not meet BNP's business or commercial requirements.

Payload changes

a. /on_search - catalog with SNP commercials

```

{
  "context":

```

¹⁰ to be updated if code above is "1" ("OTP");

¹¹ enum - "OTP"

```

{
  "action": "on_search",
  "core_version": "1.2.5"
  ..
},
"message":
{
  "catalog":
  {
    ..
    "bpp/providers":
    [
      {
        "id": "P1",
        ..
        "categories":
        [
          {
            "id": "Mobile Phone",
            ..
            "tags":
            [
              {
                "code": "type",
                "list":
                [
                  {
                    "code": "type",
                    "value": "category"
                  }
                ]
              },
              {
                "code": "np_fees12",
                "list":
                [
                  {
                    "code": "channel_margin_type",
                    "value": "percent13"
                  },
                  {
                    "code": "channel_margin_value",
                    "value": "0.5014"
                  }
                ]
              }
            ]
          }
        ]
      },
      ..
    ],
    "items":
    [
      {
        ..
        "tags":
        [
          {
            "code": "np_fees15",
            "list":
            [
              {
                "code": "channel_margin_type",
                "value": "percent"
              },
              {
                "code": "channel_margin_value",
                "value": "0.50"
              }
            ]
          }
        ]
      },
    ],
  },
}

```

¹² at category level - multiple np_fees can be sent, for same category, based on the combination of channel margin type & value;

¹³ enum - "percent", "amount";

¹⁴ +ve number, up to 2 decimals;

¹⁵ at item level;


```

"@ondc/org/item_quantity":
{
  "count":1
},
"@ondc/org/title_type":"item",
..
},
{
"@ondc/org/item_id":"F1",
"@ondc/org/title_type":"delivery",
..
},
..
{
"@ondc/org/item_id":"I117",
"@ondc/org/title_type":"misc",
"price18":
{
  ..
},
"item":
{
  "tags":
  [
    {
      "code":"quote",
      "list":
      [
        {
          "code":"type",
          "value":"item"
        }
      ]
    },
    {
      "code":"np_fees",
      "list":
      [
        {
          "code":"id",
          "value":"119"
        },
        {
          "code":"channel_margin_type",
          "value":"percent20"
        },
        {
          "code":"channel_margin_value",
          "value":"0.50"
        }
      ]
    }
  ]
},
{
"@ondc/org/item_id":"I121",
"@ondc/org/title_type":"tax",
"price22":
{
  ..
},
"item":
{
  "tags":
  [
    {
      "code":"quote",

```

¹⁷ matches item id for which SNP channel margin applied as convenience fee;

¹⁸ value of SNP channel margin, applied as convenience fee;

¹⁹ unique (within quote.breakup[]) identifier for channel margin option;

²⁰ enum: amount,percent

²¹ matches item id for which tax on SNP margin applied;

²² tax on SNP channel margin;

```

      "list":
      [
        {
          "code": "type",
          "value": "item"
        },
        {
          "code": "subtype",
          "value": "misc"
        }
      ]
    },
    {
      "code": "np_fees",
      "list":
      [
        {
          "code": "id",
          "value": "123"
        }
      ]
    }
  ]
},
"ttl": "PT1H"
}
}
}

```

c. confirm - BNP selects specific option for SNP commercials

```

{
  "context":
  {
    "action": "confirm",
    "core_version": "1.2.5"
  },
  ..
},
"message":
{
  "order":
  {
    "provider":
    {
      "id": "P1",
      ..
    },
    "items":
    [
      {
        "id": "I1",
        ..
        "tags":
        [
          ..
          {
            "code": "np_fees",
            "list":
            [
              {
                "code": "id",
                "value": "124"
              }
            ]
          }
        ]
      }
    ]
  }
},
],

```

²³ matches id for SNP channel margin quote line item above;

²⁴ this option selected by BNP;

```
}  
}  
}
```

d. /on_confirm - SNP sends quote including specific option selected

```
{  
  "context":  
  {  
    "action": "on_confirm",  
    "core_version": "1.2.5"  
  },  
  "message":  
  {  
    "order":  
    {  
      "provider":  
      {  
        "id": "P1",  
        ..  
      },  
      "items":  
      [  
        {  
          "id": "I1",  
          ..  
          "tags":  
          [  
            ..  
            {  
              "code": "np_fees",  
              "list":  
              [  
                {  
                  "code": "id",  
                  "value": "1"  
                }  
              ]  
            }  
          ]  
        }  
      ],  
      "fulfillments":  
      [  
        {  
          "id": "F1",  
          ..  
        }  
      ],  
      "quote":  
      {  
        "price":  
        {  
          "currency": "INR",  
          "value": ".."  
        },  
        "breakup":  
        [  
          {  
            "@ondc/org/item_id": "I1",  
            "@ondc/org/item_quantity":  
            {  
              "count": 1  
            },  
            "@ondc/org/title_type": "item",  
            ..  
          },  
          {  
            "@ondc/org/item_id": "F1",  
            "@ondc/org/title_type": "delivery",  
            ..  
          },  
        ],  
        ..  
      }  
    }  
  }  
}
```

```

{
  "@ondc/org/item_id": "I1",
  "@ondc/org/title_type": "misc",
  "price":
  {
    ..
  },
  "item":
  {
    "tags":
    [
      {
        "code": "quote",
        "list":
        [
          {
            "code": "type",
            "value": "item"
          }
        ]
      },
      {
        "code": "np_fees",
        "list":
        [
          {
            "code": "id",
            "value": "1"
          },
          {
            "code": "channel_margin_type",
            "value": "percent"
          },
          {
            "code": "channel_margin_value",
            "value": "0.5"
          }
        ]
      }
    ]
  },
},
{
  "@ondc/org/item_id": "I125",
  "@ondc/org/title_type": "tax",
  "price26":
  {
    ..
  },
  "item":
  {
    "tags":
    [
      {
        "code": "quote",
        "list":
        [
          {
            "code": "type",
            "value": "item"
          },
          {
            "code": "subtype",
            "value": "misc"
          }
        ]
      },
      {
        "code": "np_fees",
        "list":
        [
          {

```

²⁵ matches item id for which tax on SNP margin applied;

²⁶ tax on SNP channel margin;

```
    "code": "id",  
    "value": "127"  
  }  
  ]  
}  
],  
"tt": "PT1H"  
}  
}
```

²⁷ matches id for SNP channel margin quote line item above;