Fareye-Whirlpool API Doc

API Specification Document

Version

v2.0

Prepared By

FarEye

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2	Beauty	29/03/2023	Robin	29/03/2023	Added the Updated get Slot/Reserve Slot details
3	Beauty	11/04/2023	Robin	11/04/2023	Added Cancel Slot API details

CONTENTS

2. INTRODUCTION

Whirlpool is a global organization in the consumer electronics & durables space and improving life at home has been at the heart of their business for 110 years. Whirlpool Corporation (NYSE: WHR) is committed to being the best global kitchen and laundry company. In an increasingly digital world, the company is driving purposeful innovation to meet the evolving needs of consumers

through its iconic brand portfolio, including Whirlpool, KitchenAid, Maytag, Consul, Brastemp, Amana, Bauknecht, JennAir, Indesit and Yummly. In 2021, the company reported approximately $22 billion in annual sales, 69,000 employees and 54 manufacturing and technology research centers.

FarEye is engaged as a Supply chain visibility platform to enable order management, carrier integrations, final-mile optimization & execution and provide real-time visibility to ensure end-consumer satisfaction.

2.1 PURPOSE OF DOCUMENT

The purpose of this document is to detail out the technical integration approach for web API based integration between Whirlpool's systems and FarEye. The document defines the structure and contents of the messages exchanged between Whirlpool's Systems and FarEye . The document mentions the specifications pertaining to the APIs exposed by FarEye. Post development of APIs there can be some minor changes which will be highlighted.

2.2 DOCUMENT AUDIENCE

This document, when approved by the competent authority will be shared with project stakeholder

- Business department of Whirlpool owning the Delivery and Logistics Platform.
- IT Department of the Whirlpool responsible for implementing, rollout and operating the B2C logistics and Delivery Platform.
- Security and Review teams of Whirlpool responsible for providing approvals to rollout the Bill Payment Platform.
- Project management, Solution Architects, Business Analysts, QA(Quality Assurance) and Development team responsible for building the solution.
- Anyone else who is involved in the Project

3 API Specifications

3.1 Get Slot

Service name	Fetch available slots
Service Type	REST/JSON
Response Mechanism	Synchronous
Requested System	Whirlpool (VTEX)
Remarks	
Method	POST
URL	https://api-staging.stagingfareyeconnect.com/connector/v1/whirlpool/get-slot?countrycode=IT

Bearer Token: 3cd996f4-1bd3-4937-a9be-d72a6f4172fe |

3.1.1 REQUEST STRUCTURE

Sr. No.	Fields	Description	Data Type	Mandatory(M) / Optional(O)	Exception Condition/Validation
1	reference_number	Reference number/order number	String Content	O	This is unique number for the request
2	fulfilment_center	Warehouse Code	String Content	M	*Required for Carrier Allocation*
3	origin_code	Pickup location code	String Content	O	Field is required for carrier allocation. Note: one of six origin info(highlighted yellow) is mandatory
4	origin_postal_code	Pickup location postal code	String Content	O	*Required for Carrier Allocation*
5	origin_county_code	pickup area code	String Content	O	*Required for Carrier Allocation*
6	origin_address_line1	Address of the pickup location	String Content	O	
7	origin_address_line2	Address of the pickup location	String Content	O	
8	origin_city_code	City code of the pickup location	String Content		*Required for Carrier Allocation*
9	origin_state_code	State code of the pickup location	String Content	O	*Required for Carrier Allocation*

10	origin_country_code	Country code of the pickup location	String content	O	*Required for Carrier Allocation*
11	destination_code	delivery location code	String Content	O	Field is required for carrier allocation Note: one of six destination info(highlighted blue) is mandatory
12	destination_postal_code	delivery location postal code	String Content	O	*Required for Carrier Allocation*
13	destination_county_code	county code of the delivery location	String Content	O	*Required for Carrier Allocation*
14	destination_address_line1	delivery location address	String Content	O	
15	destination_address_line2	delivery location address	String Content	O	
16	destination_city_code	city code of delivery location	String Content	O	*Required for Carrier Allocation*
17	destination_state_code	state code of the delivery location	String Content	O	*Required for Carrier Allocation*
18	destination_country_code	country code of the delivery location	String Content	O	*Required for Carrier Allocation*
19	destination_latitude	Latitude of the delivery location	Decimal	O	
20	destination_longitude	Longitude of the delivery location	Decimal	O	
21	invoice_value	total amount of the items	Decimal	O	*Required for Carrier Allocation*
22	item_value	amount of the item for rate calculationœ	Decimal	O	*Required for Carrier Allocation*
23	cod_amount	amount to be paid through COD	Decimal	O	*Required for Carrier Allocation*
24	quantity	Total quantity of the items	Number	O	*Required for Carrier Allocation*

25	booking_date	Ready by date of the item	Date Time	O	*Required for Carrier Allocation*
26	storage_days	storage days for additional charges while rate calculation	Number	O	*Required for Carrier Allocation*
27	weight	weight of the product	Decimal	M	*Required for Carrier Allocation*
28	volume	volume of the product	Decimal	O	*Required for Carrier Allocation*
29	length	length of the product	Number	O	*Required for Carrier Allocation*
30	breadth	breadth of the product	Number	O	*Required for Carrier Allocation*
31	height	height of the product	Number	O	*Required for Carrier Allocation*
32	additional_heads	any additional charges	Array	M	*node is mandatory, by default it is blank array, its required for additional charges in rate calculation*
33	serviceability_filters		Object	O	*Required for Carrier Allocation*
34	service_type	Delivery service type	String	O	==*eg: Express*== *Required for CA*
35	payment_mode	Payment Mode	String	O	==*eg:COD*== *Required for CA*
36	order_types	order types	String	O	==*eg: Forward field*== *Required for CA*
37	timeslot	Timeslot info	Object	M	
38	start_date	Start date of the get slot request	String	M	
39	end_date	End date of the get slot request	String	M	
40	requested_time_slot	Time slot requested from the customer side	Array	M	
41	items_list		Array		
42	item_code	Product ID	String	O	
43	item_reference_number	Reference number of the product	String	O	
44	item_name	Name of the product	String	O	

45	item_quantity	Quantity of the product	Number	O	
46	item_height	Height of the product	Decimal	O	
47	item_width	Width of the product	Decimal	O	
48	item_length	Length of the product	Decimal	O	
49	item_weight	Weight of the product	Decimal	O	
50	item_uom	Item's Unit of measurement	String	O	
51	weight_uom	Unit of measurement of weight	String	O	
52	info	Any extra info required	object	O	
53	additional_field1	Any extra info required			
54	sku_list	Item list	Array	O	
55	sku_item_name	Item Name	String	O	
56	sku_description	Item description	String	O	
57	sku_quantity	Item quantity	Number	O	
58	sku_weight	Item weight	String	O	
59	sku_volume	Item Volume	String	O	
60	sku_time_to_install	Time for installation		O	
61	info	Any extra info	String	O	
62	additional_field1	Any extra info	String	O	
63	info	Any extra info	String	O	

3.1.2 SAMPLE REQUEST WITH MANDATORY FIELDS

```json
{
    "reference_number": "<ref.number> like 1100091",
    "fulfilment_center": "<fulfilment center code>",
    "origin_code": "<Hub code>",
    "origin_postal_code": "11034",
    "origin_county_code": "",
    "origin_address_line1": "",
    "origin_address_line2": "",
    "origin_city_code": "",
    "origin_state_code": "MI",
    "origin_country_code": "USA",
    "destination_code": "",
    "destination_postal_code": "",
    "destination_county_code": "",
    "destination_address_line1": "0000 PURDY ROAD",
    "destination_address_line2": "",
    "destination_city_code": "RUTH",
    "destination_state_code": "MI",
    "destination_country_code": "USA",
    "destination_latitude": 42.111111,
    "destination_longitude": 20.111111,
    "invoice_value": 450.55,
    "item_value": 110.44,
    "cod_amount": 110.44,
    "quantity": 1,
    "booking_date": "2023-03-26 14:22:58",
    "storage_days": 3,
    "weight": 0.6,
    "volume": 220.00,
```

```json
  "length": 12,
  "breadth": 8,
  "height": 5,
  "additional_heads": [],
  "serviceability_filters": {
    "service_type": "Express",
    "payment_mode": "COD",
    "order_types": "Forward Field"
  },
  "timeslot": {
    "start_date": "2023-03-28",
    "end_date": "2023-03-31",
    "requested_time_slot": [
      "10:00:00-12:00:00",
      "15:00:00-18:00:00"
    ]
  },
  "items_list": [
    {
      "item_code": "12",
      "item_reference_number": "1110456",
      "item_name": "Washing machine",
      "item_quantity": 1,
      "item_height": 10.5,
      "item_width": 10.5,
      "item_length": 10.0,
      "item_weight": 10.0,
      "item_uom": "IN",
      "weight_uom": "KG",
      "info": {
        "additional_field1": "Additional field for item"
      }
    }
  ],
  "sku_list": [
    {
      "sku_item_name": "CAB",
      "sku_description": "",
      "sku_quantity": 13,
      "sku_weight": "321.2 LB",
      "sku_volume": "95.5 CUFT",
      "sku_time_to_install": null,
      "info": {
```

```
      "additional_field1": "Additional field for sku"
    }
  }
],
"info": {

}
}
```

3.1.4 SAMPLE RESPONSE

Success Response:

```
{
 "reference_number": "",
 "carriers": [
  {
   "code": "<carrier code>",
   "logo": "",
   "available_slots": [
    {
     "date": "2023-03-25",
     "start": "10:00:00",
     "end": "12:00:00",
     "slot_number": 10,
     "preference": "",
     "route_code": "",
     "version_id": 0,
     "vehicle_name": "",
     "order_sequence": 1,
     "info": {
      "reference_number": "110033-09232"
     }
    }
   ],
   "matching_od_pair": {
    "destination_postal_code": "201304",
    "origin_postal_code": "201301"
```

```
    },
    "name": "<carrier name>",
    "output_tags": {
      "awb_series": "AWB",
      "journey_sort": null,
      "label_id": null,
      "tat": "5"
    },
    "rank": 1,
    "score": 0,
    "serviceType": null,
    "tatUnit": null,
    "tatValue": null
  }
  ],
  "errors": []
}
```

Failure Response:

```
{
  "reference_number": "",
  "errors": ["No slots available"]
}
```

3.2 Reserve Slot

Service name	
	Reserve dynamic slot
Service Type	
	REST/JSON
Response Mechanism	
	Synchronous
Requested System	

Remarks	
Method	POST
URL	https://api-staging.stagingfareyeconnect.com/connector/v1/whirlpool/confirm-slot?countrycode=IT Bearer Token: 3cd996f4-1bd3-4937-a9be-d72a6f4172fe

3.2.1 REQUEST STRUCTURE

Sr. No.	Fields	Description	Data Type	Mandatory(M) / Optional(O)	Exception Condition/Validation=
1	reference_number	Reference number/order number	String Content	O	This is unique number for the request
1.1	carrier_code	Carrier code in case of multiple carriers	String	M	This will be hardcoded for Italy (eg: FASTEST) and is mandatory to be passed in case of multiple carriers.
2	fulfilment_center	Warehouse Code	String Content	M	*Required for Carrier Allocation*
3	origin_code	Pickup location code	String Content	O	*Required for Carrier Allocation*
4	origin_postal_code	Pickup location postal code	String Content	O	*Required for Carrier Allocation*
5	origin_city_code	City code of the pickup location	String Content		*Required for Carrier Allocation*

6	origin_state_code	State code of the pickup location	String Content	O	*Required for Carrier Allocation*
7	origin_country_code	Country code of the pickup location	String content	O	*Required for Carrier Allocation*
8	destination_code	delivery location code	String Content	O	*Required for Carrier Allocation*
9	destination_postal_code	delivery location postal code	String Content	O	*Required for Carrier Allocation*
10	destination_county_code	county code of the delivery location	String Content	O	*Required for Carrier Allocation*
11	destination_address_line1	delivery location address	String Content	O	
12	destination_address_line2	delivery location address	String Content	O	
13	destination_city_code	city code of delivery location	String Content	O	*Required for Carrier Allocation*
14	destination_state_code	state code of the delivery location	String Content	O	*Required for Carrier Allocation*
15	destination_country_code	country code of the delivery location	String Content	O	*Required for Carrier Allocation*
16	destination_latitude	Latitude of the delivery location	Decimal	O	
17	destination_longitude	Longitude of the delivery location	Decimal	O	
18	invoice_value	total amount of the items	Decimal	O	*Required for Carrier Allocation*

19	item_value	amount of the item for rate calculationœ	Decimal	O	*Required for Carrier Allocation*
20	cod_amount	amount to be paid through COD	Decimal	O	*Required for Carrier Allocation*
21	quantity	Total quantity of the items	Number	O	*Required for Carrier Allocation*
22	booking_date	Ready by date of the item	Date Time	O	*Required for Carrier Allocation*
23	storage_days	storage days for additional charges while rate calculation	Number	O	*Required for Carrier Allocation*
24	weight	weight of the product	Decimal	M	*Required for Carrier Allocation*
25	volume	volume of the product	Decimal	O	*Required for Carrier Allocation*
26	length	length of the product	Number	O	*Required for Carrier Allocation*
27	breadth	breadth of the product	Number	O	*Required for Carrier Allocation*
28	height	height of the product	Number	O	*Required for Carrier Allocation*
29	additional_heads	any additional charges	Array	M	*node is mandatory, by default it is blank array, its required for additional charges in rate calculation*
30	serviceability_filters		Object	O	*Required for Carrier Allocation*
31	service_type	Delivery service type	String	O	eg: Express
32	payment_mode	Payment Mode	String	O	eg:COD
33	order_types	order types	String	O	eg: Forward field
34	service_time	Service time of the order	Number		
35	confirmed_date	Date selected by the customer	Date		*Required for Carrier Allocation*
36	status	status of time slot requested	String		
37	status_code	status code of time slot requested	String	O	eg: confirmed
38	timeslot		object		

39	date	Date selected by the customer		M	
40	start_time	Slot start time		M	
41	end_time	Slot End Time		M	
41.1	slot_number	slot number given by FE	Number	O	
42	items_list		Array		
43	item_code	Product ID	String	O	
44	item_reference_number	Reference number of the product	String	O	
45	item_name	Name of the product	String	O	
46	item_quantity	Quantity of the product	Number	O	
47	item_height	Height of the product	Decimal	O	
48	item_width	Width of the product	Decimal	O	
49	item_length	Length of the product	Decimal	O	
50	item_weight	Weight of the product	Decimal	O	
51	item_uom	Item's Unit of measurement	String	O	
52	weight_uom	Unit of measurement of weight	String	O	
53	info	Any extra info required	object	O	
54	additional_field1	Any extra info required			
55	sku_list	Item list	Array	O	
56	sku_item_name	Item Name	String	O	
57	sku_quantity	Item quantity	Number	O	

58	sku_weight	Item weight	String	O	
59	sku_volume	Item Volume	String	O	
60	info	Any extra info	Object	O	

3.2.2 SAMPLE REQUEST

```json
{
  "reference_number": "<ref.number> like 1100091",
  "carrier_code": "FASTEST",
  "fulfilment_center": "<fulfilment center code>",
  "origin_code": "<Hub code>",
  "origin_postal_code": "11034",
  "origin_city_code": "",
  "origin_state_code": "MI",
  "origin_country_code": "USA",
  "destination_code": "",
  "destination_postal_code": "01029",
  "destination_county_code": "",
  "destination_address_line1": "1000 ANN",
  "destination_address_line2": "",
  "destination_city_code": "RUTH",
  "destination_state_code": "MI",
  "destination_country_code": "USA",
  "destination_latitude": 42.111111,
  "destination_longitude": 20.111111,
  "invoice_value": 450.55,
  "item_value": 110.44,
  "cod_amount": 110.44,
  "booking_date": "2023-08-26 14:22:58",
  "storage_days": 3,
  "weight": 0.6,
  "volume": 220.00,
  "length": 12,
  "breadth": 8,
  "height": 5,
  "additional_heads": [],
  "serviceability_filters": {
    "service_type": "Express",
    "payment_mode": "COD",
    "order_types": "Forward Field"
  },
  "service_time": 5,
  "confirmed_date": "2023-03-25",
  "status": "Confirmed",
```

```json
    "status_code": "Confirmed",
    "timeslot": {
      "date": "2023-03-27",
      "start_time": "10:00:00",
      "end_time": "12:00:00",
       "slot_number": 1

  },
  "items_list": [
     {
        "item_code": "12",
        "item_reference_number": "1110456",
        "item_name": "Washing machine",
        "item_quantity": 1,
        "item_height": 10.5,
        "item_width": 10.5,
        "item_length": 10.0,
        "item_weight": 10.0,
        "item_uom": "IN",
        "weight_uom": "KG",
        "info": {
           "additional_field1": "Additional field for current item"
        }
     }
  ],
  "sku_list": [
     {
        "sku_item_name": "CAB",
        "sku_quantity": "13",
        "sku_weight": "321.2 LB",
        "sku_volume": "95.5 CUFT"
     }
  ],
  "info": {}
}
```

3.2.3 SAMPLE RESPONSE

Success Response:

```
{
 "status": 200,
 "referenceId": "00988111-00-20230329",
 "timestamp": 1680018951000,
 "slot_token": "168009924475130",
 "errors": []
}
```

Failure Response:

```
{
 "status": 400,
 "referenceId": "00988111-00-20230329",
 "timestamp": 1680018951000,
 "slot_token": null,
 "errors": [
   "Slot is not available"
 ]
}
```

3.3 Cancel Slot

Service name	Cancel Slot
Service Type	REST/JSON
Response Mechanism	Synchronous
Requested System	
Remarks	
Method	POST
URL	https://api-staging.stagingfareyeconnect.com/visibility/generic/v3/carrier/cancel-slot Bearer Token: 3cd996f4-1bd3-4937-a9be-d72a6f4172fe

3.3.1 REQUEST STRUCTURE

Sr. No.	Fields	Description	Data Type	Mandatory(M) / Optional(O)	Exception Condition/Validation
1	reference_id	Any unique number for slot identification	String Content	M	
2	order_number	it could be similar to reference_id or any other unique value could be passed	String Content	O	
3	carrier_code	Code of the carrier	String Content	M	
4	slot_id	reserve token which needs to be canceled or deleted	String Content	M	
5	reason	reason to cancel the slot	String Content	O	
6	info	any extra info	Object	O	

3.3.2 Sample Request

```json
{
  "reference_id": "ref123",
  "order_number": "APLGC.00-SteveC18-00-20220111",
  "carrier_code": "FASTEST",
  "slot_id": "11013",
  "reason": "",
  "info": {}
}
```

3.3.3 SAMPLE RESPONSE

Success Response:

```
{

    "status": 200,

    "order_number": "APLGC.00-SteveC18-00-20220111",

    "timestamp": 1681213679008,

    "slot_id": "11013"

}
```

Failure Response:

```
{
    "status": 400,
    "order_number": "APLGC.00-SteveC18-00-20220111",
    "timestamp": 1681214119953,
    "slot_id": "11013",
    "errors": [
        "89",
        "Errore: slot assente (11013)!"
    ],
    "translated_errors": [
        "89",
        "error: slot absent (11013)!"
    ]
}
```