

## Order Validation API v1

FoodTec Solutions Inc. - Version 1.0, Mon Sep 15 05:04:33 EDT 2025

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Specifications subject to change.

The FoodTec POS supports a RESTful API that can accept orders from authenticated external sources, such as catering or internet ordering systems validate and return them priced.

## 1. Overview

The Order Validation API is designed to have resource-oriented URLs (/validate/order, /validate/coupon, ...) and to use HTTP error codes to indicate various error types. All the messages including errors, are formatted in JSON.

#### 1.1. Authentication

The Order Validation API v1 uses the Basic HTTP Auth protocol to authorize calls.

### 1.2. Registering API client

In order for a third-party application to be able to use the Order Validation API v1, it should first get registered with FoodTec POS. Upon registration a client identifier (username) and client password will be issued to the third-party API client.

## 1.3. Error Handling

Invalid provided data can result into an error similar to the following:

```
HTTP/1.1 400 Bad Request

Content-Type: application/json; charset=UTF-8

{
    "meta": {
        "code": 1600,
        "error": "No coupon matching the 3dolloff",
        "info": "No coupon matching the 3dolloff"
    },
    "response": ""
}
```

Note that all these responses will have an HTTP 400 code with a customer error code in the *meta* object. The *error* and *info* fields will always have the same value and the response object is going to be empty.

### 1.3.1. Authentication Failure Request Example

```
curl https://localhost/ws/store/v1/menu/ordertypes -i -H "Accept: application/json" -H "Content-Type: application/json"
```

HTTP

### 1.3.2. Authentication Failure Response Example

```
HTTP/1.1 401 Unauthorized
Server: Apache-Coyote/1.1
WWW-Authenticate: Basic realm="store services"
Content-Length: 0
Date: Mon, 16 Mar 2015 13:20:28 GMT
```

## 1.4. Error Codes

The values of words prefixed with a dollar sign (\$) depend on the context of the error.

### 1.4.1. General Errors

Code	Error/Info
1000	Unsupported order type. \$message
1001	Not licensed for web
1002	ExternalRef cannot be empty or null

Code	Error/Info
1003	Open order for externalRef \$externalRef already exists
1004	Unsupported order source: \$orderSource. \$message
1005	Cannot find order with externalRef: \$externalRef
1007	\$field1 is required when \$field2 is present
1010	Order could not be placed
1011	Internal address error
1012	Order price cannot be calculated
1020	Cannot calculate price for item \$item (\$category)
1021	Cannot calculate price for special \$special
1022	Cannot calculate discount for special \$special
1050	<pre>\$order_could_not_be_voided_reason</pre>

## 1.4.2. Menu Errors

Code	Error/Info
1100	At least one item or special must be specified
1101	Category cannot be empty
1102	No such category \$category
1110	Item cannot be empty
1111	No such item \$item for category \$category
1120	Item size cannot be empty for item \$item (\$category)
1121	No such size \$size for item \$item (\$category)
1122	The size \$size is not available for item \$item (\$category)
1123	The item \$item (\$category) is out of stock
1124	Item \$item contains an ingredient with empty name
1125	\$invalid_ingredient_name_reason
1130	No such ingredient \$ingredient for item \$item (\$category)
1131	No such qualifier \$qualifier for item \$item (\$category)
1140	Quantity must be positive for item \$item (\$category)
1141	At least \$cnt enforced ingredients is required for \$category \$item \$choice choice.

Code	Error/Info
1150	Special name cannot be empty
1151	No such special \$special
1152	Special \$special must contain items
1153	The selling price for the special \$special cannot be empty for the special \$special
1154	The selling price \$price for the special \$special is invalid
1155	The discount for the special \$special cannot be empty
1156	The discount \$discount for the special \$special is invalid
1157	Unsupported special type. \$message
1158	Unsatisfied special \$message
1159	The \$special is limited to \$max per order.

## 1.4.3. Customer Errors

Code	Error/Info
1200	Customer cannot be null
1210	The name of the customer must be specified
1220	The phone of the customer must be specified
1221	Invalid customer phone \$phone. \$message

## 1.4.4. Delivery address Errors

Code	Error/Info
1300	Address and zip fields must be specified for delivery orders
1301	Address or zip is missing
1303	Location not found
1304	Coordinates not found
1305	Did not find \$field1 field corresponding to \$field2

## 1.4.5. Deferring & Date Errors

Code	Error/Info
1400	\$message
1401	Cannot set defer time for a past date: \$deferDate
1402	Store is closed

Code	Error/Info
1410	Cannot set defer time. Store will be closed on : \$deferDate
1411	Cannot set defer time. Timeslot is full for the date: \$deferDate
1420	\$message

## 1.4.6. Pricing Errors

Code	Error/Info
1506	Invalid order price \$price
1507	Invalid order tax \$tax
1508	Invalid order tip \$tip
1509	Invalid order discout \$discount
1510	Invalid order delivery charge \$charge
1511	Invalid price \$price for item \$item
1512	Order Price cannot be empty
1513	The selling price for item \$item cannot be empty
1514	The price for ad-hoc \$ingredient cannot be empty
1515	Invalid Service Charge price \$price

## 1.4.7. Pricing Mismatches

Code	Error/Info
1560	Provided order price \$provided does not match calculated price \$calculated
1561	Provided order tax \$provided does not match calculated tax \$calculated
1562	Provided order discount \$provided does not match calculated discount \$calculated
1563	Provided order delivery charge \$provided does not match calculated delivery charge \$calculated

## 1.4.8. Coupon Application Errors

Code	Error/Info
1600	No coupon matching the \$code
1601	The coupon does not qualify for the order. \$terms
1602	The coupon \$code has been expired.

Code	Error/Info
1603	The coupon \$code has been already used.
1604	The coupon \$code cannot be applied.
1605	The coupon \$code cannot be matched with this special.
1606	\$coupon_redemption_failed_reason.
1607	Cannot apply \$code, one adjustment per order allowed.

## 1.4.9. Adjustment Application Errors

Code	Error/Info
1190	Adjustment name cannot be empty
1191	Adjustment discount cannot be empty
1192	Invalid adjustment discount \$discount

# 1.5. Order Object

This object defines an **order** object

Property	Туре	Description
orderNum	string	The order number of the accepted order. Returned after acceptance
type	enum	The type of the order. Allowed values: Pickup, Delivery. <i>Require</i>
source	enum	The source of the order. Allowed values (case insensitive): Doc Dash, GrubHub Postmates, Uber Eats, CyborgOps Third Party. Required
paid	boolean	Whether the or was paid. <i>Requi</i>

Property	Туре	Description
isThirdPartyPickup	boolean	For Pickup order whether a third party will pick to order from the store, instead of the customer.  Optional
price	float	The total price of the order (including tax, t etc). Required
tax	float	The total order
taxableSubtotal	float	The order's taxa subtotal. <i>Option</i>
tip	float	The order tip.  Optional
discount	float	The total order discount. Option
deliveryCharge	float	The Delivery charge if applicable.  Optional
serviceCharge	float	The Service cha if applicable. Required when serviceChargeNo is present
serviceChargeName	string	The Service cha name if applica Required when serviceCharge is present
timeOrdered	$date\_time \ ^{[\underline{1}} \\ (https://docs.foodtecsolutions.com/pdirect/9.5/ads/doc/util/docspublic/OrderValidationApiV1.html\#\_footnotedef\_1)]$	The time that the order has been accepted. Return after acceptance
deferTime	$date\_time \ ^{[\underline{1}} \\ \text{(https://docs.foodtecsolutions.com/pdirect/9.5/ads/doc/util/docspublic/OrderValidationApiV1.html\#\_footnotedef\_1)]}$	If the order is to deferred, this is time at which th order is due to t customer. <i>Optio</i>

Property	Туре	Description
promiseTime	$\label{lem:date_time} date\_time \ ^{[\underline{1}} \\ \text{(https://docs.foodtecsolutions.com/pdirect/9.5/ads/doc/util/docspublic/OrderValidationApiV1.html\#\_footnotedef\_1)]}$	The time the ord will be ready. Returned after acceptance
customer	<u>Customer</u> (https://docs.foodtecsolutions.com/pdirect/9.5/ads/doc/util/docspublic/OrderValidationApiV1.html#customer) object	The order customer details Optional in <b>Ord</b> <b>Validation API</b>
items	Array of <u>Item</u> (https://docs.foodtecsolutions.com/pdirect/9.5/ads/doc/util/docspublic/OrderValidationApiV1.html#item) objects	The order items Required if speci are empty
specials	Array of <u>Special</u> (https://docs.foodtecsolutions.com/pdirect/9.5/ads/doc/util/docspublic/OrderValidationApiV1.html#special) objects	The order special Required if items are empty
adjustment	<u>Adjustment</u> (https://docs.foodtecsolutions.com/pdirect/9.5/ads/doc/util/docspublic/OrderValidationApiV1.html#adjustment) object	The order adjustment.  Optional
instructions	string	The order instructions provided by the consumer. Max characters allow Optional
externalRef	string	Is a unique identifier, provi by the client. It i used to prevent duplicate orders and to void the order (if needed via the Void Ordendpoint. Requiron acceptance A only

Property	Туре	Description
externalNumber	string	Is an identifier
		which is provide
		by the client for
		orders from 3rd
		party services s
		as GrubHub tha
		can be entered v
		the Order
		Acceptance API.
		can be used who
		a customer calls
		the store, the
		employee will b
		able to locate th
		customer's orde

## 1.5.1. Customer

This object defines a **customer** object

Property	Туре	Description
name	string	The name of the customer. Required
phone	string	The customer's phone, formatted as AAA-XXX-NNNN. <i>Optional</i>
address	string	The street number and address ("123 W Main St"). <i>Optional</i>
zip	string	The 5-digit zip code. Required when an address is required
city	string	City. Optional
state	string	The 2-letter state. Optional
value1	string	The apartment #, suite #, dorm name, etc. Required when 'diff1' field is included in the request
diff1	string	This is what Value1 is. Required when 'value1' field is included in the request
value2	string	Secondary location differentiator, e.g. the room # within the dorm. Required when 'diff2' field is included in the request
diff2	string	This is what Value2 is. Required when 'value2' field is included in the request

Property	Туре	Description
latitude	double	Latitude. <i>Required</i> if store is configured to accept customer coordinates
longitude	double	Longitude. <i>Required</i> if store is configured to accept customer coordinates
deliveryInstructions	string	Delivery instruction, if a Delivery order.  Optional

## 1.5.2. Item

This object defines an order item object

Property	Туре	Description
category	string	The category the item belongs to (such as "Pizza"). Required
item	string	The name of the item within the category (such as "Chesse"). Required_
size	string	The size of the item (such as "Med").  Required
quantity	integer	The quantity of the item.  Optional (default: 1)
sellingPrice	float	The selling price of the item. <i>Required</i>
ingredients	Array of <u>Ingredient</u> (https://docs.foodtecsolutions.com/pdirect/9.5/ads/doc/util/docspublic/OrderValidationApiV1.html#ingredient) objects	Items' ingredients.  Optional

Property	Туре	Description
externalRef	string	Is a unique identifier, provided by the client for identifying items.  Optional
isInBucket	boolean	Indicates if the item is part of a bucket. Optional

## 1.5.3. Ingredient

This object defines an order item **ingredient** object

Property	Туре	Description
ingredient	string	The name of the ingredient. Required
isLeftHalf	boolean	For a left-half ingredient. Optional
isRightHalf	boolean	For a right-half ingredient . Optional
ordered	boolean	A default ingredient that was deselected. <i>Optional</i>
isAdHoc	boolean	For an Ad-Hoc ingredient. Optional
price	boolean	The price for an Ad-Hoc ingredient.  Optional

## 1.5.4. Special

This object defines an order item **special** object

Property	Туре	Description
special	string	The name of the special or coupon.  Required
type	enum	Allowed values Special, Coupon. Required
sellingPrice	float	The discounted price of the special or coupon.  Required

Property	Туре	Description
discount	float	The special or coupon discount. Required
items	Array of <u>Item</u> (https://docs.foodtecsolutions.com/pdirect/9.5/ads/doc/util/docspublic/OrderValidationApiV1.html#item) objects	The items that this special or coupon applies to. Required
isCombo	boolean	Indicates if the special is a combo. <i>Optional</i>
couponCode	string	The coupon code of the special when applied.  Optional

### 1.5.5. Adjustment

This object defines an order item adjustment object

Property	Туре	Description
name	string	The name of the adjustment. Required
discount	float	The adjustment discount. Required

# 2. Endpoints

## 2.1. Order Validation

This call will validate an order and return it fully priced in the response. Any error identified will be returned as part of the response. After the order gets successfully validated all items will get priced and the total price, tax, tip, discount and delivery charge will be calculated. Items sent priced will be ignored and re-priced according to menu. Last any auto-apply special matching the order will be applied.

URL	/ws/store/v1/validate/order
HTTP Method	POST
Available Since	9.1

## 2.1.1. Example request

```
$ curl 'https://localhost/ws/store/v1/validate/order' -i -X POST -H 'Accept: application/json' -H 'Content-Type:
application/json' -d '{
    "orderNum" : null,
    "type" : "Pickup",
    "source" : "Door Dash",
    "price" : null,
    "tax" : null,
    "tip" : null,
    "discount" : null,
    "deliveryCharge" : null,
    "deferTime" : null,
    "customer" : {
     "name" : "Foodtec Joe",
     "phone": "781-453-8620",
      "address" : "175 Highland Avenue",
      "zip" : "02494",
      "city" : null,
      "state" : "MA",
      "value1" : "12G",
      "diff1" : "Apt",
      "value2" : null,
      "diff2" : null,
      "value3" : null,
      "diff3" : null,
      "latitude" : 0.0,
      "longitude" : 0.0,
      "deliveryInstructions" : "Take the stairs or elevator to the fourth floor"
    "items" : [ {
      "category" : "Pizza",
      "item" : "Cheese",
     "size" : "Sm.",
     "quantity" : 3,
      "sellingPrice" : 6.99,
      "ingredients" : [],
      "externalRef" : "fc0e2a1c-6020-4041-a2fd-1a5e42417aeb",
      "isInBucket" : false
    } ],
    "specials" : [ ],
    "payments" : [ ],
    "orderTaker" : null,
    "externalRef" : "d2257a43-c044-4dcb-bc44-012f4514e9a0"
}'
```

#### 2.1.2. Example response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1165
"orderNum": "0",
"source": "Door Dash",
"type": "Pickup",
"price": 22.55,
"tax": 1.58,
"taxableSubtotal": 20.97,
"tip": 0.0,
"discount": 0.0,
"deliveryCharge": 0.0,
"paymentFee": 0.0,
"timeOrdered": null,
"deferTime": null,
"customer": {
    "name": "Foodtec Joe",
    "phone": "781-453-8620",
    "address": "175 Highland Avenue",
    "zip": "02494",
    "city": null,
    "state": "MA",
    "value1": "12G",
    "diff1": "Apt",
    "value2": null,
    "diff2": null,
    "value3": null,
    "diff3": null,
    "latitude": 0.0,
    "longitude": 0.0,
    "deliveryInstructions": "Take the stairs or elevator to the fourth floor"
},
"items": [
    {
        "category": "Pizza",
        "item": "Cheese",
        "size": "Sm.",
        "quantity": 3,
        "sellingPrice": 6.99,
        "ingredients": [
            {
                "ingredient": "Original Crust",
                "isLeftHalf": false,
                "isRightHalf": false,
                "ordered": true,
                "qualifiers": []
            },
                "ingredient": "Pizza Sauce",
                "isLeftHalf": false,
                "isRightHalf": false,
                "ordered": true,
                "qualifiers": []
            },
                "ingredient": "Cheese",
                "isLeftHalf": false,
                "isRightHalf": false,
                "ordered": true,
                "qualifiers": []
        "externalRef": "fc0e2a1c-6020-4041-a2fd-1a5e42417aeb",
        "isInBucket": false
   }
"specials": [],
"adjustment": null,
"paid": false,
```

```
"isThirdPartyPickup": false,
"payments": [],
"orderTaker": null,
"externalRef": "d2257a43-c044-4dcb-bc44-012f4514e9a0",
"externalNumber": null
}
```

### Example request(Drive thru)

```
$ curl 'https://localhost/ws/store/v1/validate/order' -i -X POST -H 'Accept: application/json' -H 'Content-Type:
application/json' -d '{
"orderNum" : null,
"type" : "Drive Thru",
"source" : "Door Dash",
"price" : 27.39,
"tax" : 1.92,
"tip" : null,
"discount" : null,
"deliveryCharge" : null,
"deferTime" : null,
"customer" : {
  "name" : "Foodtec Joe",
  "phone": "781-453-8620",
  "address" : "175 Highland Avenue",
  "zip" : "02494",
  "city" : null,
  "state" : "MA",
  "value1" : "12G",
  "diff1" : "Apt",
  "value2" : null,
  "diff2" : null,
  "value3" : null,
  "diff3" : null,
  "latitude" : 0.0,
  "longitude" : 0.0,
  "deliveryInstructions" : "Take the stairs or elevator to the fourth floor"
},
"items" : [ {
  "category" : "Pizza",
  "item" : "Cheese",
  "size" : "Sm.",
  "quantity" : 3,
  "sellingPrice" : 6.99,
  "ingredients" : [ ],
  "externalRef" : "fc0e2a1c-6020-4041-a2fd-1a5e42417aeb",
  "isInBucket" : false
} ],
"specials" : [ ],
"payments" : [ ],
"orderTaker" : null,
"externalRef" : "d2257a43-c044-4dcb-bc44-012f4514e9a0"
```

HTTP

Example response(Drive thru)

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1542
"orderNum": "0",
"source": "Door Dash",
"type": "Drive Thru",
"price": 22.55,
"tax": 1.58,
"taxableSubtotal": 20.97,
"tip": 0.0,
"discount": 0.0,
"deliveryCharge": 0.0,
"paymentFee": 0.0,
"timeOrdered": null,
"deferTime": null,
"customer": {
    "name": "Foodtec Joe",
    "phone": "781-453-8620",
    "address": "175 Highland Avenue",
    "zip": "02494",
    "city": null,
    "state": "MA",
    "value1": "12G",
    "diff1": "Apt",
    "value2": null,
    "diff2": null,
    "value3": null,
    "diff3": null,
    "latitude": 0.0,
    "longitude": 0.0,
    "deliveryInstructions": "Take the stairs or elevator to the fourth floor"
},
"items": [
    {
        "category": "Pizza",
        "item": "Cheese",
        "size": "Sm.",
        "quantity": 3,
        "sellingPrice": 6.99,
        "ingredients": [
            {
                "ingredient": "Original Crust",
                "isLeftHalf": false,
                "isRightHalf": false,
                "ordered": true,
                "qualifiers": []
            },
                "ingredient": "Pizza Sauce",
                "isLeftHalf": false,
                "isRightHalf": false,
                "ordered": true,
                "qualifiers": []
            },
                "ingredient": "Cheese",
                "isLeftHalf": false,
                "isRightHalf": false,
                "ordered": true,
                "qualifiers": []
        "externalRef": "fc0e2a1c-6020-4041-a2fd-1a5e42417aeb",
        "isInBucket": false
   }
"specials": [],
"adjustment": null,
"paid": false,
```

```
"isThirdPartyPickup": false,
"payments": [],
"orderTaker": null,
"externalRef": "d2257a43-c044-4dcb-bc44-012f4514e9a0",
"externalNumber": null
}
```

## 2.2. Coupon Validation

This call will try to apply the coupon as if it was actually added to the order. The order will be priced and returned in the response object. Items sent priced will be ignored and re-priced according to menu.

URL	/ws/store/v1/validate/coupon?code={couponCode}
HTTP Method	POST
Available Since	9.1

In the following example an order with two items is sent and a coupon named "testspe" is applied to the order. The "Test Special" matches the given coupon code which is applied to one of the given items as can be seen in the returned object.

## 2.2.1. Example request

```
$ curl 'https://localhost/ws/store/v1/validate/coupon?code=testspe' -i -X POST -H 'Accept: application/json' -H 'Content-
Type: application/json' -d '{
"orderNum" : null,
"source" : "Cyborgs",
"type" : "Pickup",
"price" : null,
"tax" : null,
"tip" : null,
"discount" : null,
"taxableSubtotal": null,
"deliveryCharge" : null,
"deferTime" : null,
"customer" : {
 "name" : "Foodtec Joe",
  "phone": "781-453-8620",
  "address" : "175 Highland Avenue",
  "zip" : "02494",
  "city" : null,
"state" : "MA",
  "value1" : "12G",
  "diff1" : "Apt",
  "value2" : null,
  "diff2" : null,
  "value3" : null,
  "diff3" : null,
  "latitude" : 0.0,
  "longitude" : 0.0,
  \hbox{"deliveryInstructions"} \ : \ \hbox{"Take the stairs or elevator to the fourth floor"}
"items" : [ {
  "category" : "Pizza",
  "item" : "Cheese",
 "size" : "Sm.",
  "quantity" : 3,
  "sellingPrice" : 6.99,
  "ingredients" : [ ],
"externalRef" : "e51d28fa-3dae-43ba-9b52-084515f7d79f",
  "isInBucket" : false
} ],
"specials" : [ ],
"payments" : [ ],
"orderTaker" : null,
"externalRef" : "50627d47-43d9-48b3-b8a9-f57d449e973f"
```

#### 2.2.2. Example response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1824
"orderNum": "0",
"source": "Cyborgs",
"type": "Pickup",
"price": 21.47,
"tax": 1.5,
"taxableSubtotal": 19.97,
"tip": 0.0,
"discount": 1.0,
"deliveryCharge": 0.0,
"paymentFee": 0.0,
"timeOrdered": null,
"deferTime": null,
"customer": {
  "name": "Foodtec Joe",
  "phone": "781-453-8620",
  "address": "175 Highland Avenue",
  "zip": "02494",
  "city": null,
  "state": "MA",
  "value1": "12G",
  "diff1": "Apt",
  "value2": null,
  "diff2": null,
  "value3": null,
  "diff3": null,
  "latitude": 0.0,
  "longitude": 0.0,
  "deliveryInstructions": "Take the stairs or elevator to the fourth floor"
},
"items": [],
"specials": [
 {
      "special": "testspe",
      "type": "Coupon",
      "sellingPrice": 19.97,
      "discount": 1.0,
      "items": [
          {
              "category": "Pizza",
              "item": "Cheese",
              "size": "Sm.",
              "quantity": 3,
              "sellingPrice": 6.99,
              "ingredients": [
                       "ingredient": "Original Crust",
                       "isLeftHalf": false,
                       "isRightHalf": false,
                       "ordered": true,
                       "qualifiers": []
                  },
                      "ingredient": "Pizza Sauce",
                      "isLeftHalf": false,
                      "isRightHalf": false,
                      "ordered": true,
                       "qualifiers": []
                  },
                      "ingredient": "Cheese",
                      "isLeftHalf": false,
                      "isRightHalf": false,
                      "ordered": true,
                      "qualifiers": []
                  }
              1,
```

## 2.3. Store Employees Service

#### 2.3.1. Validate Employee Server Uniqueld

Validates if the UniqueId refers to an employee with who has the server role.

URL	/ws/store/v1/validate/employees/server
HTTP Method	GET
Available Since	9.2

#### Example request

\$ curl 'https://localhost/ws/store/v1/validate/employees/server' -i -H 'Accept: application/json' -H 'Content-Type: application/json'

BASH

### Example response

HTTP/1.1 204 No Content

<u>1</u> (https://docs.foodtecsolutions.com/pdirect/9.5/ads/doc/util/docspublic/OrderValidationApiV1.html#\_footnoteref\_1). date\_time values are formatted in milliseconds since January 1, 1970, 00:00:00 GMT

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