

# **ROSSI & ROVETTI FLOWERS**

**Api documentation**

**2015 version**

**<http://github.com/rossirovetti/api>**

<b>Basic API</b>	<b>3</b>
<b>Sample JSON push:</b>	<b>4</b>
<b>Additional Fields</b>	<b>5</b>
<b>Push versus Pull</b>	<b>5</b>
<b>Teams</b>	<b>6</b>
<b>Data Dictionary</b>	<b>7</b>
<b>We heart you!</b>	<b>13</b>

## Basic API

The structure is simple: a push or pull request is initiated from a Partner Organization, or PO, for the purposes of a single record transfer of an order to be fulfilled.

A JSON API is used for a simple push and pull for each order. Webhooks, while supported, are not covered in this documentation. When this isn't possible, data polling is supported with CSV from a given URL on intervals no more than 5 minute polling increments. Discuss with your API team leader whether it's better to use *zappier* or *mashape* when neither option is available.

An order is defined as:

- a one-to-one sender to receiver for [flowers, bouquets, etc]
- when more than one receiver is required by the sender for multiple receivers, multiple orders *must* be created. As of the date of this document, there are no plans to support a one-to-many relationship scenario for the orders.

For example, the minimum information required for an order is as follows:

**Partner organization [PO]:** *United States House of Representatives*

**Sender:** Nancy Pelosi  
**Sender Address:** 233 Cannon H.O.B.  
**Sender City:** Washington  
**Sender State:** DC  
**Sender Zip:** 20515

**Recipient:** Barry Bonds  
**Recipient Address:** 301 3<sup>rd</sup> Street  
**Recipient City:** San Francisco  
**Recipient State:** CA  
**Recipient Zip:** 94107

**Delivery Date:** 1/12/2015  
**Card Message:** Congratulations on your retirement! Nancy

**Product:** Designers Choice  
**Description:** Celebratory bright colors no vase  
**Price:** 75.00

These orders will show up in your API team's portal alongside our sandbox data.

## Sample JSON push:

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "api-key" : "12AB712C09911A18B165210CC002127756E"
  "product": "Designers Choice",
  "description": "Celebratory bright colors no vase",
  "price": "75",
  "type": "object",
  "properties": {
    "name": {
      "description": "Nancy Pelosi",
      "type": "string"
    },
    "address": {
      "description": "233 Cannon H.O.B.",
      "type": "string"
    },
    "city": {
      "description": "Washington",
      "type": "string"
    },
    "locState": {
      "description": "DC",
      "type": "string"
    },
    "zip": {
      "description": "20515",
      "type": "integer"
    },
    "shippingname": {
      "description": "Barry Bonds",
      "type": "string"
    },
    "shippingaddress": {
      "description": "301 3rd Street",
      "type": "string"
    },
    "shippingcity": {
      "description": "San Francisco",
      "type": "string"
    },
    "shippingsLocstate": {
      "description": "CA",
      "type": "string"
    },
    "shippingzip": {
      "description": "94107",
      "type": "integer"
    },
    "deliverydate": {
      "description": "01/12/2015",
      "type": "string"
    },
    "cardmessage": {
      "description": "Congratulations on your retirement! Nancy",
      "type": "string"
    }
  }
}
```

## Additional Fields

Of course, this is the simplest example of an order, pushed into our system for delivery, on 01/12/2015. Attributes such as 'earliestTime' and 'latestTime' are also available, in addition to other options of the push [such as desiredResultURI].

The JSON structure is purposefully flat. No child to parent relationships exist in the current architecture, nor are there development plans to do so. This is because our system must, in real time, calculate ETAs, schedule drivers and designers, and decide on product spacing for each Point-of-Presence [POP].

Because of the nature of this real-time calculus, during the holiday seasons, race conditions exist. In other words, our just-in-time inventory system and our route calculator is always [and forever] working on optimizing itself, thus even if the header of the JSON is received [identifying the product, the price, etc] will at least make it into the queue if a simultaneous request is made by the delivery API [internal to Rossi & Rovetti] is discerning a delivery delay. This allows our design teams within each POP to prepare the product specified and to – offline – discern which delivery means necessary to deliver the product.

It's important to stress that date and time fields are all of type string. Our system integrates worldwide data from different data points [with different date formats, etc] thus we normalize the date and time where necessary within our systems quite capably; whether it's a 24-hour notation, 12-hour notation, a hex notation, a binary notation, etc. Since much of the duty of our service engine is to ensure the most optimized send-to-deliver experience, it's important to ensure your data is being integrated correctly using your API Team's portal.

Your API Team Relationship Manager will explain the portal, how to check for data validity, etc. It's not the current scope of this document to cover the portal, since we do provide varying UIs to each PO within our network, depending on the needs and the requirements of the PO.

## Push versus Pull

It's the same! To pull the data that you are looking for does not require a record id; rather, some verbs that would make the order 'distinct' is all that's required. Usually the delivery address, last name and delivery date. However, as a best practice, use the orderID that our API system provides post-push to query the database for ETA, delivery signature URIs, etc.

## Time Travel

In early 2014, we introduced the concept of ‘time travel,’ which is extending pushing an order to test for an ETA without actually placing the order.

The other use of Time Travel is to push ‘tentative’ placeholders, or orders that should be put into the routing system but not fully placed into our billing system.

The last use of Time Travel [verb: `timetravel` ] is to insert an order when the time has past, but to ensure that it’s in the system for the route calculator to build it into the delivery and/or designer mechanism for the specific POP it’s arriving at.

Whether or not your organization requires the use of this verb is dependent on the needs of your organization. However, we restrict the time travel authority to only those who require it, so please consult with your relationship manager should you require this access.

We’re not meaning to be restrictive - but we have hundreds of data insert points into our system, thus it’s necessary to ensure that the data quality and/or routing is the best experience for each of our POs. While we haven’t had any abuses of this system to date – *so be kind when you rewind.* ☺

## Teams

To manage workflow more efficiently, we separate out each API segment into teams, or sender PO regions. As of the writing of this document:

<i>Luigi</i>	<i>California</i>
<i>Mario</i>	<i>Pacific Northwest</i>
<i>Antonio</i>	<i>Southwest</i>
<i>Gincarlo</i>	<i>Midwest</i>
<i>Giorgio</i>	<i>Plain States</i>
<i>Giovanni</i>	<i>New England</i>
<i>Placido</i>	<i>Mid-Atlantic</i>
<i>Tomasso</i>	<i>Southern Atlantic</i>
<i>Bruno</i>	<i>South-Atlantic+Gulf</i>
<i>Alfonso</i>	<i>South-Pacific</i>
<i>Cecilia</i>	<i>Hawaii</i>
<i>Bella</i>	<i>EMEA</i>
<i>Carmine</i>	<i>Canada &amp; Mexico</i>
<i>Carlotta</i>	<i>South America</i>

## Data Dictionary

verb	Definition	Use Required?
idOrder	Specific identity/key numerical to each order inserted into the system.	Best practice is to use this when constructing a JSON query to request information.
idCust	Each sender receives this id. Sender-related preferences will require this in the future “Allergic to Lilies.”	
orderDate	This must be the timestamp from your server at the time of push.	Yes, push only.
orderDateInt	Alternative timestamp when pulling.	
randomKey	This is for security purposes.	
rewardsUsed	If a PO decides on designating sender rewards, this is a key to a separate database to populate the amount of rewards that the sender has left.	
subTotal	Applicable only if taxes are to be collected by us and not the PO.	Yes, push only, only if applicable.
taxTotal	Applicable only if taxes are to be collected by us and not the PO.	Yes, push only, only if applicable.
shipmentTotal	Applicable if the PO decides on a shipment fee in addition to our billing.	
Total	Total of the arrangement	Yes, push only.
shipmentMethod	Requested shipmentMethod. Valid examples include a driver’s	

	name or service, 'Bunny' or 'Jane' in a specific POP. This simply differs priority to that method for a PUSH.	
shipmentStore	The name of the POP that it's being fulfilled by; e.g. '644 Brannan Street San Francisco'	
name	The first name of the sender. May be generic if the PO decides to cloak this information.	Yes, push only
lastName	The last name of the sender. May be generic if the PO decides to cloak this information. [Last name may be omitted if submitted through name]	Yes, push only
customerCompany	Optional information if a sub-company is being used or applied by the PO	
phone	Phone number of the sender	
email	eMail address of the sender	
address	Address of the sender	Yes, push only
city	City of the sender	Yes, push only
locState	State of the sender	Yes, push only
locCountry	Country of the sender	
zip	Zipcode of the sender	Yes, push only
shippingName	Name of the recipient	Yes, push only
shippingLastName	Lastname of the recipient ; may be omitted if inserted into name.	Yes, push only
shippingCompany	Company name of recipient.	Yes for push but a NULL value or non-inserted will assume a residential address.
shippingAddress	Address of recipient. Separate more than one line by slash '/'	Yes, push only
shippingCity	City name of the recipient	Yes, push only



shippingLocState	State of the recipient	Yes, push only
shippingLocCountry	Country of the recipient	Assumes USA on push.
shippingZip	Postal code of the recipient	
paymentType	If it's to be collected by Rossi & Rovetti, valid forms would be 'Credit Card,' 'Paypal,' etc.	
cardType	Valid types would be 'Visa,' 'Discover,' 'JCB,' etc.	
cardNumber	Credit card number MD5 HASH using an onsite pre-exchanged PKI	
deliverydate_comment	Comment on delivery date, useful for 'May deliver on Saturday if she's not home,' or 'Call first to ensure he's at work,' etc.	
cardExpMonth	Month of credit card number	
cardExpYear	Year of credit card number, last 2 digits only [assumes 20 as leading digits]	
cardVerify	CVV or EVC code from the credit card.	
cardName	Name on the credit card.	
generalComments	General Comments on the order visible to the sender and usually entered by the sender. "She really hates purple, and don't use roses."	
orderStatus	Valid Pull information examples are 'Processed,' 'En-Route,' 'Delivered,' 'Rejected' [rare] etc.	
auditInfo	The biological test information of the flower arrangement including alkalinity, biological contaminant PPM, phosphoridity, etc.	
storeComments	Comments directed to the POP by the PO. For	

	example, "VIP Client to us", etc.	
storeCommentsPriv	Comments directed to Rossi & Rovetti HQ <u>NOT</u> viewable by the POP. For example, "Designer Yolanda should not be used for this arrangement for XYZ reason."	
adjustAmount	Adjustment amount if necessary.	
adjustReason	Adjustment reason if necessary.	
taxExempt	If system is required to maintain taxExempt status, example would be 1 or 0, or 'Y' or 'N' [this gets normalized]	
discCode	Discount code	
discPerc	Discount percentage	
discTotal	Discount Total	
shippingPhone	Recipient's Phone number	Yes, push only
handlingFeeTotal	HandlingFee if required by PO	
idAffiliate	id of Affiliate ; not applicable to POs.	
commPerc	Not usually applicable to POs.	
searchRefererDomain	Not usually applicable to POs.	
searchPhrase	Not usually applicable to POs.	
Referer	Not usually applicable to POs.	
smsNumber	Cellphone number of sender should they'd need an automated text message upon order status, delivery.	
smsGateway	Desired MMS/SMS gateway. If null or not provided, our gateway is used.	
orderType	Contextual	
orderSource	Contextual	

lastpage	Contextual	
ccArchived	Not usually applicable by POs.	
heardaboutus	Captures the information if it was a recapture or if was self-inserted by the PO.	
dnc	Means Do-not-call. This is a do-not-disturb sender or recipient under any circumstances. The POP will relay information to the PO if this is set to '1' or 'Y' [normalized].	
freeshirt	Code verb for a re-delivery. If selected 'Y' or '1' [normalized,] this designates to our system to require a different designer and driver to complete the re-delivery than the previous attempt.	
cardmessage	Card message to be put onto the order	Yes, push only
driver	Driver's name, for pull only	
deliverydate	Delivery date in many formations [normalized]	Yes, push only. 'Adjustable' dates are supported by the comment field only.
designer	Designer's name, for pull only	
imgExists	For pull, it returns either a NULL or the URL of the final image	
flag	Flags set to 'Y' or '1' will require the designer at the POP to contact the PO prior to processing the order.	
priority	Values are from 1-10, and simply designating the priority on the order. This assists our system with routing, so we suggest either leaving this blank	

	[which defaults to '3'] or setting it to '2' under time-driven circumstances, and '1' only for an absolute required urgent design and delivery.	
trackerCount	Returns the number of times the record has been pulled	
isMobile	If the recipient is mobile or homeless, designate this as a '1' with the POP	
postcardUrl	Inserting an IMG URL here will print that image on a one-sided postcard at the POP and will be provided with the card message.	For push only, optional
signatureImg	URL of the signature image from the driver	For pull, image captured on delivery.
signatureName	Text-based representation of the delivery, for example, 'Front Desk'	For pull
Timetravel	See above definition, use cautiously.	For push only/restricted
ETA	Driver ETA	For pull
DriverWhereabouts	Lat and Long of current driver whereabouts	Useful for realtime mapping of where the driver is relative to the route
RouteSequence	The number of deliveries left before this gets delivered. '5' would mean 5 deliveries for that chosen driver before the specific delivery is completed.	
ohShit	Use sparingly, this is a 'jump-ahead' scenario and bypasses <u>all</u> routing and forces the POP to manually insert it into the delivery queue.	For push only/restricted.

## We heart you!

While this document is borderline negligent in providing full examples of every scenario, it's purposeful. Each PO has it's own requirements, restrictions, intranet integrations, etc.

Your Relationship Manager will designate two full time developers at your disposal on 12 hour intervals [out of Appleton, Wisconsin and out of Bangalore, India] for integration, testing and technical support.

Thank you so much for being a part of the Rossi & Rovetti Flowers PO team! We assure you the highest in quality service with the fastest delivery times and always a zero delivery cost. We've worked hard on this API over the years and as a result, we're always learning new ways to improve it. Please share anything you could identify as a need to your Relationship Manager.