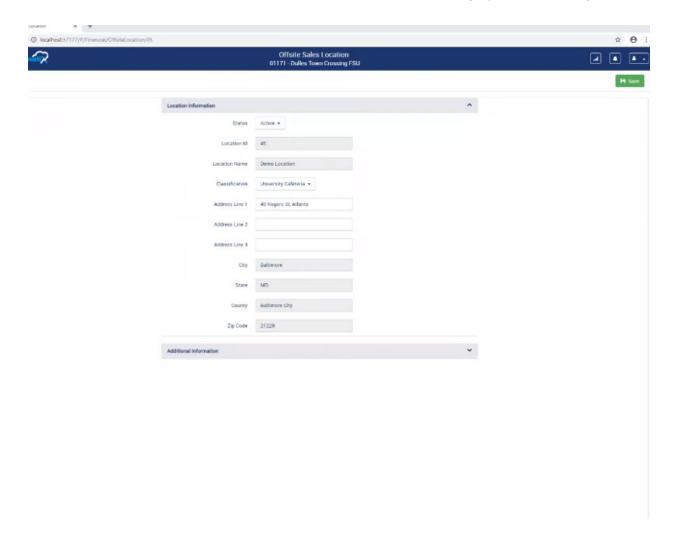
## CFAMX-1632 Smarty Streets January 30, 2019

- Address Validation Architecture
  - US Autocomplete API
    - Free request to the api
    - Does not validate street number
    - Returns valid street+city+state combinations
    - When consuming smartystreets api, the host header must be set to the value provided by smartystreets
    - Input fields
      - prefix address search term
        - We currently do not start autocompleting until a street name is typed
      - suggestions number of results to return.
        - We currently don't set this value so it is defaulted to **10** items
      - city filter not used
      - state filter not used
      - prefer not used
      - prefer ratio not used
      - geolocate prefers address suggestions in the user's city/state depending on IP address
        - o true
      - geolocate\_precision causes geolocated results to bubble up by city or state
         city
  - US Street Address API
    - Subscription plans are paid monthly
    - Any overage will not incur more charges, in this instance, next month's plan would be paid at the point the current plan's requests are all consumed
    - Subscription type can be changed month by month
    - Provides full validation of address
    - Response returns validated address along with county and zip code
    - Addresses that validate to multiple addresses will allow for selection of the correct address
    - At most an address will only require one request to validate after it is submitted and multiple addresses come back
    - Request that have no response (no address matched the result) will require more since the address will need to be corrected and validated again
- 2 APIS smarty streets.com
  - First one is the autocomplete will suggest addresses to you for free
    - Does not fully verify address, it's just a lookup without validation
    - It basically will help with fat fingering
    - Won't start auto-completing until you hit space (not 100% correct)
    - Uses Geolocation to your location ex. Snellville/Lawrenceville
  - Second One Validation API
    - Once submitted/saved, will validate address (cost per call)
    - CFA Tax group will use
    - Two outcomes

- 1st possibility: no address found
- 2nd possibility: multiple address North, South. Missing ..etc
- Enter City and State and UI will not let you enter County or Zip Code
- Once you hit save, multiple addresses found, you need to pick, N. or South
- Populate other data gathered by the original call. After you make a selection, it disregard the other changes and not recall the api.
- Toast Messages on OSM UI:
  - No valid address found (Red Error)
  - Multiple addresses found (orange/yellow warning)



## Other notes:

We have a 1 month trial with the option to extend a month.

Note from Will, I came across this prompt when ordering some coffee from Keurig, no idea which validation service they use, but this is how they prompt for a suggested address.



## PLEASE VERIFY YOUR ADDRESS DETAILS

## Your address has been auto corrected. To proceed, please choose one of the options below.

WE RECOMMEND:

Street Address: 2620 Grundhall Ct

30041-6195

Apt. Suite, Bldg:

Zip:

City: Cumming
State: Georgia

**USE SUGGESTED ADDRESS** 

YOU ENTERED:

Street Address: 2620 Grundhall Court

Apt. Suite, Bldg:

City: Cumming

State: Georgia

Zip: 30041

USE ADDRESS AS ENTERED

Edit