iConnect 186362 Design Approach – Address Validation

Project Overview

This project is to integrate with the USPS address validation API in order to accomplish address validation on a set of fields without the user needing to trigger the validation (through a custom action button, for example).

Validation will be set through the admin tool via a rule node that will return a boolean value, allowing the rule to further determine logic based upon the success or failure of the validation check (such as error messages or warnings).

The API to be used is described at https://www.usps.com/business/web-tools-apis/address-information-api.htm#_Toc487629494.

Features/Requirements

- A rule will be created to capture the various necessary inputs to accomplish the address validation. The rule will fully execute once all specified fields have input – any optional inputs (as defined for the rule) will be used if they have a value, otherwise will be ignored (note that an optional input can still trigger the full execution of the rule, so long as all other required inputs have value).
    - Rule will return true if address is validated against the USPS API.
    - Rule will return false if address is not validated against the USPS API.
    - Rule will return false if the USPS API call does not work for technical reasons.
- New rule will have a template in the list of templates for new rules.

Use Cases / Workflow Changes

TBD

App Changes

A new rule node (and sub-nodes) will be created to handle the desired rule. The rule will have logic to execute fully when all required fields are filled in by the user – this execution will include the action of calling out to the USPS address validation API, and returning a true/false value based on the response received from the USPS API call.

The rule format will be as follows:

```xml
<AddressValidation>
  <!--Line 1 street - required-->
  <AddressInput type="Address1" dataitemid="someDataItem line 1" />
  <!--Line 2 street - optional-->
  <AddressInput type="Address2" dataitemid="someDataItem line 2" />
  <!--City-->
  <AddressInput type="City" dataitemid="someDataItem_City" />
  <!--State - will use first 2 characters of given value (abbreviations only)-->
  <AddressInput type="State" dataitemid="someDataItem_City" />
```

```
<!--zip - will use first 5 characters of given value-->
<AddressInput type="Zip5" dataitemid="someDataItem_Zip" />
</AddressValidation>
```

Admin Changes

For the new rule, all admin functionality that normally accompanies rules will be implemented – auto-complete, errors & warnings, node help, etc.

A template for the rule will also be added.

UI Mock Ups

TBD

How to Enable and Use This Feature

TBD

Areas Impacted

System Area	Yes	Comment
Admin Tool		
- Form Library		
- Design Forms		
- Profile Administration		
- Reports		
- Deployment		
FireLight App		
- New Application		
- Edit Application		
- Signature Process		
- Review Queue		
- Manual Review		
- User Preferences		
- Inbound Integration		
- Outbound Integration		
- PDF Generation		

- Email System		
FireLight Console		
- Windows		
- iOS		
Other Systems		
- DTCC Integration		
- Commission Netting		
- Activity Reporting		