iConnect Design Approach - Add capability to obfuscate data on user interface

Project Overview

When working with clients in high traffic areas, i.e. bank lobbies, it is necessary to obfuscate data so that it can't be seen by individuals walking by. The desired functionality is to provide the user with a means to selectively display that data. Otherwise, that data will remain hidden on the page. This control will encompass all fields on the UI; fields in both carrier and distributor form packages and FireLight UI fields that are part of the activity workflow. A button/icon will allow the user to toggle the view of all fields on a page for a limited period of time. That period of time will be defined through configuration in the admin tool.

Requirements / User Stories

Admin: New Controls for Obfuscation/Screen Security

This will apply to forms and wizards.

Obfuscate/Screen Security Mask

In order to limit visibility of fields in the FireLight user interface when in form entry, we will add the ability to select enable obfuscation by role, in the admin tool. Selection of Obfuscation will result in all contents of fields in the workflow of Activities in FireLight not being visible (blurred) in the user interface unless focus is on a field. The contents of fields will become visible again when the user hovers, selects, or tabs into that field.

Enable Obfuscation Checkbox

Obfuscation/Blurring Mask Time Out

The "Obfuscation Mask Time Out" field will allow the user to choose the amount of time that information in the field will be allowed to remain visible in periods of inactivity.

The time out duration obfuscates data in any field(s) visible after the specified period of inactivity. Enter the length of the timeout in seconds for obfuscation/blurring. If 0(None) is entered, the toggle must be selected a second time to obfuscate data.

Acceptance Criteria

- Selections saved in each field

Application: Obfuscation/Screen Security Mask

Selection of Enable Obfuscation will result in the contents of all fields being obfuscated/blurred in the user interface when focus is not on that those fields. The blurring effect will appear on all fields in the activity and in the signing ceremony. The contents of the field will become visible again when the user hovers, selects, or tabs into that field. See graphic below for blurring effect. If there is another formatting mask on the field, that mask should still be applied, but the contents should be obfuscated/blurred.

Obfuscation behavior will also apply to all data entry fields on forms and wizards and in the FireLight UI, based on the selection of "Enable Obfuscation". Obfuscation will not be applied to the list of signers at the start of the signing ceremony. These are not data entry fields and the masks would not be applied. Masks will be applied to read only fields. As it is not possible to bring focus to read only fields, the only way to make these fields visible will be through the toggle control.

Selection of "Enable Obfuscation" will result in the addition of a control to the page that allows the user to show/hide all obfuscated fields. This is intended to facilitate client review of data for accuracy. This will be done through selection of an eye icon (https://fontawesome.com/icons/eye?style=regular). This icon would toggle off/on. See mock-up to the left of the error balloon.
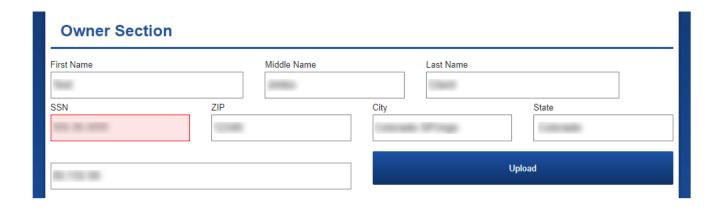

Obfuscation settings impact all data entry fields within Form Entry and Signature process for any activity. There is no impact on the home page or other portions of the FireLight user interface.

Please note that obfuscation settings will have no impact on visibility of content of forms once the form is locked down and turned into a flattened PDF/image. This will include when the application has been locked, when it is visible in the review queue, and when it is visible as part of the signing ceremony.

Signature obfuscation will apply to face to face signing but it will not apply to remote signing.

Owner Section

First Name	Middle Name	Last Name

SSN	ZIP	City	State

	Upload

Acceptance Criteria

- If "Enable Obfuscation" is selected, data will be visible if focus is on a field, else the data will be obfuscated. The contents of all data entry fields will be obfuscated/blurred. See mockup/sample.
- Obfuscation will be applied to fields in all forms packages and inputs in the FireLight activity workflow.
- If "Enable Obfuscation" is selected, then add a "visibility" icon to the FL UI, else, do not add.
- If the "visibility" icon is selected, toggle visibility of obfuscated fields on/off.
- If "Enable Obfuscation" is selected, then fields should be obfuscated after inactivity of the duration specified. If "0" is entered for Timeout, then data is only obfuscated/visible through loss of focus/focus or selection of the "visibility" toggle button.
- Obfuscation settings only impact data entry fields in Form Entry and Signing process of any activity.
- Obfuscation does apply to read-only fields on forms. Read-only fields are only made visible through the use of the visibility toggle (eye icon)
- Obfuscation does not apply to the labels on the buttons for selection of the signer at the beginning of the signing ceremony. These are not input fields and obfuscation will not apply.
- There is no obfuscation of the forms once they have been flattened to create a PDF/image