

# iConnect 127726 / 127642 Design Approach

---

*Revised 2/28/2016*

Many organizations would like a test environment separate from the existing Staging and Production environments that can be used to work on forms and other changes that are in development but not ready to be deployed, with the Staging environment being used as a "Production Ready" environment, to allow emergency updates to be made and deployed to Production during the development cycle without deploying or affecting the "in progress" development work.

In addition, the current FireLight Admin deployment feature has heavy resource requirements (database locks and memory usage which can impact the responsiveness of FireLight). It needs to be optimized to reduce the time required for deployments.

This design document will describe changes that will be made in FireLight v2.8 to address these requirements.

## Workflow Changes

A separate "UAT" testing environment will be created for each organization, which will serve as the test environment for FireLight. The UAT databases will initially be created as a copy of Staging. Deployments from the UAT environment will be deployed to Staging (and optionally to Production). Product, package, form, and other configuration changes can be made in the Staging environment, and deployments from the Staging environment will only be deployed to Production. Changes for future deployments can be made in UAT, while at the same time, hotfixes can be made separately in the Staging environment and deployed to Production.

The UAT environment will be accessed via a parallel set of URLs, and assemblies (base and provider code) in this environment will normally be identical to Staging, but patches of providers can be installed to Staging if necessary:

### **UAT**

<https://uat.firelighteapp.com/EGApp>

<https://uat.firelighteapp.com/EGAdmin>

### **Staging**

<https://staging.firelighteapp.com/EGApp>

<https://staging.firelighteapp.com/EGAdmin>

### **Production**

<https://www.firelighteapp.com/EGApp>

<https://www.firelighteapp.com/EGAdmin>

In addition, when logged into the UAT or Staging environments, the environment name will be displayed at the top of each view to the left of the toolbar.

There will be separate databases for configuration (which can be deployed between environments) and user (application) data for each environment.

Dev and QE will also be configured with additional virtual directories and databases for testing (EG, STG, and SYN prefixes).

## Features/Requirements

N/A

## Admin Changes

### Changes to Auto/Force Deploy Options

In Firelight 2.7, the Force Deploy option is determined by the carrier when deploying into a distributor environment. In v2.8, Force Deploy will not be available for carriers when deploying to a distributor. Instead the Force Deploy option will only be enabled for carrier-to-carrier deployments in the UAT environment, and when checked, will cause the deployment to go to the carrier's Staging and Production environments in one step. When unchecked, deploying from UAT will deploy to Staging only.

Also in v2.8, if a distributor enables Auto Deploy for a carrier in UAT (this is configured on the Sales Agreement view in Admin), when the carrier deploys from UAT to that distributor, the changes will be deployed to the distributor's UAT and Staging environments. If Auto Deploy is not enabled (the default), carrier deployments will only go to the distributor's UAT environment. The distributor will need to use the Carrier Only synchronization scopes to deploy the carrier changes from their UAT environment to their Staging environment.

If the distributor enables the Auto Deploy option in UAT and Staging for a carrier, a) when the carrier deploys from UAT, the changes will immediately be deployed to the distributor's UAT, Staging, and Production environments, b) when a carrier deploys from Staging, the changes will be deployed to the distributor's Staging and Production environments. If the distributor enables the Auto Deploy option in Staging for a carrier, when the carrier deploys from Staging, the changes will be deployed to the distributor's Staging and Production environments.

When clicking Deploy in the Admin Deploy view, a confirmation prompt will be displayed, which lists all of the destination environment(s) the changes will be deployed to, based on the above rules. If the user accepts the prompt, the deployment will be performed.

### Unified Behavior

Currently, the list of items for carrier Staging->Production deployments includes only changed items, but carrier->distributor and distributor->distributor deployments always show all possible items (even if already deployed), making it difficult to determine what needs to be deployed. The behavior of carrier-to-carrier, carrier-to-distributor, and distributor-to-distributor deployments will be modified to all work the same, showing only changes that have not yet been deployed to the destination environment. Deletes will also propagate to distributor environments.

### Additional Details

For deployments performed in 2.8, on the History view, an additional Details line will be displayed, and clicking Open will display a window with the details of that deployments (the name of each item that was

included in the deployment [i.e., Product names for Product synchronization scope, Form names for Form scope, etc.).

### Notifications

If a *Deployment Notification Email* address is configured for an organization in Admin, a notification message will be sent to the configured address for each deployment that is performed.

### Performance Improvements

The current deployment feature has high memory usage requirements and long-running deployments can also impact the FireLight application. Efforts will be made to reduce memory usage and improve the efficiency to minimize the time required and any impacts on the FireLight application.

### Miscellaneous

The Deployment view in the Admin will be updated to clearly indicate the destination environment(s) for the deployment, taking into consideration Auto Deploy and Force Deploy settings. An hourglass indicator will be displayed when loading the deployment list.

## App Changes

None.

## UI Mock Ups

Attached.

## Areas Impacted

System Area	Yes	Comment
<b>Admin Tool</b>	X	Additional environment
- <b>Form Library</b>		
- <b>Design Forms</b>		
- <b>Profile Administration</b>	X	Deployment Notification Email
- <b>Reports</b>		
- <b>Deployment</b>	X	Various
<b>FireLight App</b>	X	Additional environment
- <b>New Application</b>		
- <b>Edit Application</b>		

- <b>Signature Process</b>		
- <b>Review Queue</b>		
- <b>Manual Review</b>		
- <b>User Preferences</b>		
- <b>Inbound Integration</b>		
- <b>Outbound Integration</b>		
- <b>PDF Generation</b>		
<b>FireLight Console</b>		
- <b>Windows O/S</b>		
- <b>iOS</b>		
- <b>Android</b>		
-		
<b>Other Systems</b>		
- <b>DTCC Integration</b>		
- <b>Commission netting</b>		
- <b>Activity Reporting</b>		