
Common Tag FLApp Enhancements

FIRELIGHT BASE



Platform

COMMON TAG FLAPP ENHANCEMENTS

Document Version: 1.x

Published: January 14, 2022

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Insurance Technologies, LLC

Two South Cascade Avenue
Colorado Springs, CO 80903
USA

Phone: 719.442.6400

FAX: 719.442.0600

Internet E-Mail: info@insurancetechnologies.com

Website: <http://www.insurancetechnologies.com>

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iConnect 256914 Design Approach - Common Tags Enhancements

Project Overview

Common tags logic updates to sync external data sources with common tags that are passed into FireLight prior to activity creation, such as SSO and embedded. These updates also apply to syncing data in an active activity within FireLight, such as updating an illustration and passing those updates to an application.

Impacts:

1. Data passed in SSO for an activity.
2. Embedded activities in FireLight.
3. Activities when opened in App.
4. Rules engine, rules.
5. Lists (dropdown and combo box; checkbox and radio buttons).

1 Build Data Item Collection

Activities not directly created and open in FireLight need to be synced with common tags.

Data items will be stored in a new collection that will track all changes to the data items. When a change occurs, the data item collection should queue up the change for later processing. All changes will be processed/applied when rules/error information is retrieved. All of the applied updates to data items must occur inside of a rule block.

Acceptance Criteria

Verify data is synced in these scenarios:

- Create an application and pass data through an SSO 103.
- Create an activity and pass data through embedded.
- Create an activity without initializing it, such as:
 - A presale launching to the next activity
 - A multi-activity creating individual applications
 - An enrollment activity creating individual applications
- Update the data passed to the next activity after it was created, such as an Illustration to an application. After the application is generated, open the illustration and update the data, then click the Update button to launch into the application again with the updated data.
- Update an activity that started outside FireLight, such as starting illustration in ForeSight, launch into FireLight. Next, go back to ForeSight and update the illustration, launch into FireLight again with the updated data.

2 Refactor Wizard Controller Data Items

Refactor the Wizard controller to use the new `DataItemManager` class for storage of data items.

3 Refactor Forms Controller Data Items

Refactor the Forms controller to use the new `DataItemManager` class. The forms controller needs to be configured to run all of the data item updates when the errors are retrieved for use in the model, or at a central point that can be reused in the controller.

4 Cleanup/Convert Data Item Dictionary Across System

Each instance of `Dictionary<string, DataItem>` or `List<DataItem>` needs to be converted to the new data item collection class. This includes the following areas where data updates occur:

1. Submission of 103
2. Submission of 121
3. Updating applications from illustrations
4. Multi-activity data flow into child applications
5. Enrollment activities

5 Data Item Diff for Provider Integration

When a provider is called via `CallExternal` or any other action from an active activity, the old format of `Dictionary<string, DataItem>` must be used. Method signatures cannot be changed for providers, as it would require a rebuild and redeployment of all providers for all clients. To support no changes in the provider, the new data item collection will export a `Dictionary` and later receive the updates and diff the collections to determine what changed.