INSURANCE TECHNOLOGIES

Product Repository 2.18 August

FIRELIGHT BASE

FireLight®

Platform

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Table of Contents

Design Approach - Product Repository 2.18 August

Enhancements will be made to the Product Repository for increased functionality. We will build out additional features and options for the product repository to increase usability in preparation for loading client data. Our focus includes enhancements to the upload process, increased data control and additional parsing logic.

Impacts:

Product Repository-enhanced upload process, additional data available

Product Repository-rate spreadsheet template updates

1 Distributor ID

In the existing PPfA parsing logic, the /TXLife/TXLifeRequest/OLifE/PolicyProduct/ProductCode is assumed to be the unique identifier for a distributor specific version. The issue with this is the carriers are already using this value simply as a unique PPfA identifier and it could apply to multiple distributors; so, it will not serve our purpose to identify the individual distributor. Additionally, the rate file references the Distributor ID but it is not linked to the Organization DTCC Member Code. We will be updating FireLight to use the Distributor ID entered upon upload and not the product code from the PPfA as the unique distributor identifier. The Distributor ID entered upon upload will link to the Organization DTCC Member Code on the organization setting.

The Distributor ID will be manually added during the upload process and will be equal to the FL/Organization/DTCC Member Code. Additionally, the distributor ID in the rate upload will use the same Organization DTCC Member Code.

1.1   Add Distributor ID in PPfA Upload

Carriers need a way to identify the distributor(s) for a specific PPfA. To allow for carriers to easily define which distributor(s) the PPfA applies to, the upload process will be enhanced to include a data collection for the Distributor ID/DTCC Member Code. The value defined as the Distributor ID is stored in FireLight Organization Settings as the DTCC Member Code. (This ID can be any assigned value and is not required to be the actual DTCC Member Code as not every distributor is a DTCC Member.)

A PPfA upload can be done for multiple distributors using comma separated values in the Distributor ID/DTCC Member Code field (Example: 12345, A425, J522). When the Distributor ID/DTCC Member Code is entered during upload, the PPfA will apply to that distributor or list of distributors. Note: Carriers can include multiple products within the upload, however, they will all apply to the same Distributor IDs assigned during the upload.

During upload, if no Distributor ID is defined, the PPfA will apply to "All" distributors with the exception of any distributor with a unique version. If a Distributor ID/DTCC Member Code is defined, the PPfA will apply to the defined distributor or list of distributors. The upload process to assign Distributor ID/DTCC Member Code will not apply to the rate spreadsheet file type, as the Distributor ID is defined within the rate spreadsheet.

If an upload is requested for multiple Distributor ID/DTCC Member Codes using comma separated values, and there is not a match found in FireLight for all the Distributor ID/DTCC Member Codes entered, the record for the non-matching ID will still be created in the database.

The Distributor ID (DTCC Member Code) will be used to identify the products to display during the filter and the data to pull for the FL rules.

No changes will be made to the Rate upload dialog. The Distributor ID/DTCC Member Code segment on the PPfA upload dialog will only apply to the PPfA upload process for Annuity and will be hidden when the selection is made to upload Rates.

Acceptance Criteria

- PPfA Upload has a data collection for Distributor ID/DTCC Member Code.
- During PPfA upload, if no Distributor ID is defined, the uploaded PPfA version will apply to "All" distributors with the exception of any distributor with a unique version.
- During PPfA upload, if a single Distributor ID/DTCC Member Code is defined, the uploaded PPfA will apply to the defined distributor.
- During PPfA upload, if a Distributor ID/DTCC Member Code is entered that does not match to a Distributor ID/DTCC Member Code set up in Organizations, the record will still be created in the database.
- The Distributor ID/DTCC Member Code defined can also be used during the Filter and rules to pull the correct product based on agent SSO. When agent SSO's into FireLight, FireLight will associate the user with the logged in organization and pull the products associated with that organization using the DTCC Member ID code. Products associated to "All" distributors will be displayed as well as product versions specific to the distributor logged in. Example: SSO for Distributor ABC then only products assigned to ABC by Distributor ID will be displayed or products uploaded that apply to "All". If the distributor has a distributor specific version, only that version will be shown in the UI and not the All version.
- The Distributor ID/DTCC Member Code identified during the PPfA upload for multiple products is assigned to all products during the upload of a PPfA when the PPfA contains multiple products. Example: PPfA is uploaded that contains 3 products and a Distributor ID/DTCC Member Code is entered during upload. All products in the uploaded PPfA will apply to the Distributor ID/DTCC Member Code entered.
- When File Type is "Rates", the instruction for entering the Distributor ID/DTCC Member Code and location for entry is not displayed.

1.2   Processing Distributor ID in Product Repository Database

We will be using a Distributor ID/DTCC Member Code at the time of upload to identify distributor specific products. The rate spreadsheet also uses the same Distributor ID/DTCC Member Code to tie the rates to the appropriate distributor. A new column for the Distributor ID will be created in the Product Repository database to store the Distributor ID/DTCC Member Code for the product.

Acceptance Criteria

- New column is created in Product Repository database for Distributor ID.

- When a distributor specific product is uploaded to the Product Repository, Distributor ID is stored in the database to match the Distributor ID entered on the upload dialog.

1.3 Use Distributor ID/DTCC Member Code as Unique Identifier

Change the logic in FireLight to use the DistributorID and not the ProductCode as the unique identifier for distributor specific products. The DTCC member ID can be entered/found in the Organization Settings.

Acceptance Criteria

- Distributor ID/DTCC Member Code used to correctly identify distributor specific products at the time of upload.
- Distributor ID/DTCC Member Code is used to tie distributor specific products in the repository database with the PPfA and rate spreadsheet.

2   Product Repository: Update PPfA Parsing Logic

Update PPfA parsing logic to include changes to required fields/data.

2.1   Pull Jurisdiction data for Surrender Charge

Surrender charge schedules can be dependent on jurisdictions. The jurisdictions are parsed from the PPfA at a rider level. We need to pull the data for the jurisdictions by riders to be displayed on the Product Comparison Proposal.

Acceptance Criteria

- Rider jurisdiction data can be pulled for surrender charge rider (207).

2.2   Parse Investment Options and Fees from InvestProduct

Parsing was done for the Investment Fees for the December release, but they were from the "PolicyProduct/InvestProductInfo" section instead of from "InvestProduct". The Investment Options and Fee details reside in "InvestProduct", so the parsing will be updated to store the data from that location in the Product Repository.

Current mapping for investment fee parsing:

Field	Retrieved From
ProductCode	/TXLife/TXLifeRequest/OLifE/PolicyProduct/InvestProductInfo/ProductCode
FullName	/TXLife/TXLifeRequest/OLifE/PolicyProduct/InvestProductInfo/FullName

And Fees From the Investment

Field	Retrieved From
FeeAmt	/TXLife/TXLifeRequest/OLifE/PolicyProduct/InvestProductInfo/Fee/FeeAmt
FeePct	/TXLife/TXLifeRequest/OLifE/PolicyProduct/InvestProductInfo/Fee/FeePct
FeeType	/TXLife/TXLifeRequest/OLifE/PolicyProduct/InvestProductInfo/Fee/FeeType
FeeTypeQualifier	/TXLife/TXLifeRequest/OLifE/PolicyProduct/InvestProductInfo/Fee/FeeTypeQualifier/tc
FeeMode	/TXLife/TXLifeRequest/OLifE/PolicyProduct/InvestProductInfo/Fee/FeeMode
FeeWaiverBasedOn	/TXLife/TXLifeRequest/OLifE/PolicyProduct/InvestProductInfo/Fee/FeeWaiverBasedOn

JurisdictionApproval	Combined From List of /TXLife/TXLifeRequest/OLifE/PolicyProduct/InvestProductInfo/ JurisdictionApproval
EndDate	/TXLife/TXLifeRequest/OLifE/PolicyProduct/InvestProductInfo/Fee/EndDate

Desired mapping for investment fee parsing:

Field	Retrieved From
ProductCode	/TXLife/TXLifeRequest/OLifE/InvestProduct/ProductCode
FullName	/TXLife/TXLifeRequest/OLifE/InvestProduct/FullName

And Fees From the Investment

Field	Retrieved From
FeeAmt	/TXLife/TXLifeRequest/OLifE/InvestProduct/Fee/FeeAmt
FeePct	/TXLife/TXLifeRequest/OLifE/InvestProduct/Fee/FeePct
FeeType	/TXLife/TXLifeRequest/OLifE/InvestProduct/Fee/FeeType
FeeTypeQualifier	/TXLife/TXLifeRequest/OLifE/InvestProduct/Fee/FeeTypeQualifier/tc
FeeMode	/TXLife/TXLifeRequest/OLifE/InvestProduct/Fee/FeeMode
FeeWaiverBasedOn	/TXLife/TXLifeRequest/OLifE/InvestProduct/Fee/FeeWaiverBasedOn
JurisdictionApproval	Combined From List of /TXLife/TXLifeRequest/OLifE/InvestProduct/ JurisdictionApproval
EndDate	/TXLife/TXLifeRequest/OLifE/InvestProduct/Fee/EndDate

Acceptance Criteria

- Investment Options and Fee details are parsed from the "/TXLife/TXLifeRequest/OLifE/InvestProduct" section of the PPfA instead of "/TXLife/TXLifeRequest/OLifE/PolicyProduct/InvestProductInfo".

2.3   Owner to Owner Update

Currently, the PPfA upload does not read the "ParticipantBasedOn" field but we have identified that is required to support the variations in how products are built. The ParticipantBasedOn" field identifies if the product is based on an owner role or an annuitant role. If ParticipantBasedOn field is set to Owner, the Ownership node will have the OriginatingRole of Owner, since the product is based on the Owner. But, if the ParticipantBasedOn field is set to Annuitant, the Ownership node will have the

OriginatingRole of Annuitant, since the product is based on the Annuitant. For quote we are using the ownership min/max age and premium values to filter products. In the original build, we only looked for the role of Owner for the OriginatingRole and RelatedRole. Since some products will have the ParticipantBasedOn field set to Annuitant, the Ownership node will never have those values. When the product is based on an Annuitant, the OriginatingRole will be set to Annuitant.

In order to fix this, we will begin reading the "ParticipantBasedOn" field.

The Repository will parse the ParticipantBasedOn field from the PPfA and store the values. FireLight will then need to use these values to determine what Ownership to use for the Quote Filter.

ParticipantBasedOn field is set to Annuitant, the Ownership node, AllowedRelationship will have the OriginatingRole of Annuitant. For quote we will use the min/max age and premium values under the Annuitant OriginatingRole and the Annuitant RelatedRole.

The ParticipantBasedOn field is set to Owner, the Ownership node, AllowedRelationship will have the OriginatingRole of Owner. We will continue to use the OriginatingRole of Owner and RelatedRole of Owner for the quote filter rules.

FireLight will require the ParticipantBasedOn field is in the PPfA with either Owner or Annuitant as values.

If ParticipantBasedOn field is NOT in the PPfA with either Owner or Annuitant as values, display this error: "ParticipantBasedOn field is required with either Owner or Annuitant as values"

Acceptance Criteria

- If ParticipantBasedOn field is in the PPfA with either Owner or Annuitant as values, FireLight will read and store the ParticipantBasedOn field with Owner or Annuitant as the options.
- If ParticipantBasedOn field is Not in the PPfA with either Owner or Annuitant as values, FireLight will display this error: "ParticipantBasedOn field is required with either Owner or Annuitant as values"
- FireLight will use the ParticipantBasedOn field to determine what Ownership to use for the Quote Filter.
- The ParticipantBasedOn field is set to Annuitant, the Ownership node, AllowedRelationship will have the OriginatingRole of Annuitant and RelatedRole of Annuitant. For quote we will use the min/max age and premium values under the Annuitant OriginatingRole and the Annuitant RelatedRole.
- The ParticipantBasedOn field is set to Owner, the Ownership node, AllowedRelationship will have the OriginatingRole of Owner and RelatedRole of Owner. We will continue to use the OriginatingRole of Owner and RelatedRole of Owner for the quote filter rules.

2.4   Update 207 Record Requirements

The 207 record in the PPfA displays the surrender charge record for the product. This information may not be applicable to all products, so the 207 record is not required to exist in the PPfA file. Updates will be made to the parsing logic to allow the 207 record to be optional and no longer required for upload. If there is not a 207 record, the product would be registered as no surrender charge. If a 207 record exists with all surrender charge records equal to zero, the product will be registered as a no surrender charge product.

Acceptance Criteria

- PPfA loads with no 207 record.
- Product is categorized as having no surrender charge.
- PPfA with 207 record includes multiple durations with values all equal to zero is categorized as a no surrender charge product.
- PPfA loads with 207 record.

3   File Upload and Rate Files

File upload revisions are required for additional functionality and ease of use.

3.1   Annuity Rate Template Spreadsheet Clean Up

The annuity rate template spreadsheet has been updated. These updates need to be added to the annuity rate upload process.

1. Fixed/MYGA and Fixed Indexed: Split the Free Withdrawal Year 1 | Years 2+ column into two columns: Free Withdrawal Year 1 and Free Withdrawal Years 2+.

2. Add Strategy Type to Fixed Indexed. Valid options are: Valid options are: Participation, Spread and Triggered.

3. Remove the following from Fixed Indexed: Minimum Participation Rate, Participation Rate, Initial Spread / Margin Rate, Maximum Spread Rate, Minimum Trigger Rate, Performance Trigger Rate.

4. Add the following to Fixed Indexed: Initial Index Rate, Minimum Index Rate, Maximum Index Rate.

5. Remove from MYGA and Fixed Rates and Fixed Indexed: Final Rate Varies Based on Rider Election.

6. Rename Initial/First Year Index Rate Cap to Initial Index Cap Rate on Fixed Indexed.

7. Rename Minimum Index Rate Cap During CDSC (Yrs 2+) to Minimum Index Cap Rate During CDSC (Yrs 2+) on Fixed Indexed.

8. Rename Bonus Rate to Premium Bonus Rate - applies to both Fixed/MYGA and Fixed Indexed.

Acceptance Criteria

- Free Withdrawal column split into two and loads correctly in the repository with no errors.
- Strategy Type added to Fixed Indexed and loads into the repository with no errors.
- Validation added to Strategy Type so only options Participation, Spread and Triggered are valid.
- Participation Rate, Participation Rate, Initial Spread / Margin Rate, Maximum Spread Rate, Minimum Trigger Rate, Performance Trigger Rate removed from Fixed Indexed.
- Initial Index Rate, Minimum Index Rate, Maximum Index Rate added to Fixed Indexed.
- Final Rate Varies Based on Rider Election removed from MYGA and Fixed Rates tab and loads in the repository with no errors.
- Final Rate Varies Based on Rider Election removed from Fixed Indexed Rates tab and loads in the repository with no errors.
- Columns renamed as defined: Initial Index Cap Rate, Minimum Index Cap Rate During CDSC (Yrs 2+), Premium Bonus Rate.

3.2 Add Investment Product Code, Rider Name and Rider Product Code columns to Product Repository

Add Investment Product Code column to Fixed Indexed Rates tab. This will match up with the PPfA investment strategy ProductCode (PPfA path: /TXLife/TXLifeRequest/OLifE/InvestProduct/ProductCode).

 The Rider Name and Rider Product Code will be added to the product repository from the rate file upload for the MYGA and Fixed products and Fixed Indexed products.

Add two columns to the product repository for the Rider Name and the Rider Product Code. This will match up with the PPfA and pull in the fees associated with the rider(s).

Rider Name is a string format and is not required - blank is allowed.

Rider Product Code is an alphanumeric format and is not required - blank is allowed.

Note: if rider data is entered in a row, both the rider name and rider product code must contain data.

PPfA path for rider is /TXLife/TXLifeRequest/OLifE/PolicyProduct/AnnuityProduct/FeatureProduct/FeatureOptProduct/ProductCode.

Adding this information will allow for rules to be written to pull in investment fees for forms, and for the data to be used inside any other activity within FireLight as a future enhancement.

Acceptance Criteria

- New columns for Rider Name and Rider Product Code added to the product repository in the upload process. Spreadsheet loads into the repository with no errors.
- Validation appears if rider name has a value and rider product code does not
- Validation appears if rider product code has a value and rider name does not.
- Validation appears if a rate file contains two or more rows with duplicate Cusip ID and Rider Product Code.
- New column "Investment Product Code" added to the product repository in the upload process. Spreadsheet loads into the repository with no errors.