

Business Rule Configuration Part 4

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1. TemplateScreen

Description

This Business Rule allows configuration of the TemplateScreen Business Rule.

TemplateScreen Element \ Attribute Table

Element\Tag	Attribute\Definition\Value\Data Type	
<TemplateScreen> </TemplateScreen>	Required parent element that indicates the opening and closing of the TemplateScreen business rule.	
<Table>		
<Column>		
<Name>	Name of the column/field	
<Display>	Display text of the column/field	Text
<DataType>	TYPE	Text. Field Data Type
<Group>		
<Fields>	Start of section listing MathAndField columns and fields	
<Field>	Start of column/field definition block	
<Name>	Name of the column/field	
<Display>	MASK	Text. Display text of the column/field
<DataType>	TYPE	Text. Field data type
<Group>		
<ToolTip>		
<Tag>		
<Length>		
<Disabled>		
<Hidden>		
<InitialFocus>		
<DefaultValue>		
<Calculated>	TYPE	
	METHOD	
	XPATH	
<Query>	TYPE	

2. TransferBenefitSplit

Description

This business rule is used to recalculate benefit splits when there is a need for change in Fund allocations.

Examples:

- Some of the events that results these Fund allocation changes are:
 - Death of one of the Survivors (usually the money is moved to Fixed fund)
 - Transfer transactions per Client's request in Annuity Payout products.
- This BR is similar to DoBenefitSplitChange.

TransferBenefitSplit Element\Attribute Table

Element/Tag	Definition	Attribute	Element/Attribute Value and Description
<TransferBenefitSplit>	The opening and closing tag of the TransferBenefitSplit Business Rule.	IF	Optional attribute; = "Expression" The condition for which Transfer BenefitSplit should happen.
<Rebalance>	Optional Element; To rebalance the Fund allocations as per the original allocation after the completion of Transfer activity.	EXCLUDETYPE CASHVALUE	Required element value; Yes / No Yes - If set to "Yes", Fund Allocations are rebalanced to the original allocations after the completion of the Transfer Activity Optional attribute; Code Value from the AsCodeFundType; Fund Types to be excluded from the Rebalancing Optional attribute; Yes / No Yes - The CashValue of the Policy after processing the Transfer activity should be the same as before processing the activity No - The CashValue of the Policy after processing the Transfer activity will not have to be the same as before processing the activity.
<SyncOriginalUnits>	Required Element; Absence of the tag defaults to <SynOriginalUnits> to be set to Yes; Determines whether the original benefit split records should also be updated. To control writing code 51 records.		Required element value; Yes / No Yes - Will allow Code 51 records to be written to the AsBenefitSplit table No - No synchronization is done. I.e.. The original units are retained. Will prevent writing Code 51 records to AsBenefitSplit

			table
<Query>	Required Element; SQL - used to obtain information from the database (i.e.ReturnsChild Funds, Child Fund price, Type, Units etc)		Required element value; SQL Query to fetch information on the Funds (i.e.ReturnsChild Funds, Child Fund price, Type, Units etc)
<Relation>	Optional Element; Fund relation. To determine which child fund to use to calculate the Benefit Split		Required element value; String This element value is used to specify the Relationship of the Fund
<SegmentGUID>	Required Element; SegmentGUID of the Segment that is used to calculate the Benefit Split.		Required element value; String
<RemoveExistingNegativeAllocations>	Optional Element; The condition for which Negative allocation should be removed.	IF	Required element value; Yes / No Yes - The Negative allocation should be removed No - The Negative allocation should not be removed Optional attribute; = "Expression" The condition for which negative allocations should be removed
<WriteActivitySource>	Optional element; Used to indicate if the source activity is to be stored to the BenefitSplit record. Note: ActivityGUID in AsBenefitSplit table: If the BenefitSplit is created by normal activity processing, then the Activity's GUID should be put in the ActivityGUID column. ShadowActivityGUID in AsBenefitSplit table: If the existing BenefitSplit records are affected by any of the activities, then that activity's GUID should be put in ShadowActivityGUID		Required element value; Yes / No Yes - Indicates that the source activity that caused the BenefitSplit is captured in the AsBenefitSplit table. No - Indicates that the source activity that caused the BenefitSplit is not captured in the AsBenefitSplit table

3. TransactionBusinessRulePacket

Description

In order to provide additional functionalities to the Transactions, individual Business Rules can be created/overridden at the appropriate Transaction level and 'attached' to the Transaction via the TransactionBusinessRulePacket Business Rule. All the business rules used by the Transactions should be listed in the TransactionBusinessRulePacket Business Rule. This listing of the rules, controls the order in which the rules attached to a Transaction are processed.

Some business rules are exceptions, that they do not require transaction processing (ex. FundListForAllocation, ReportFile, ReportDetails, TransactionCosmetics, DisbursementNumber, ReverseScreen, SummaryFields) and hence they should not be listed in the TransactionBusinessRulePacket.

TransactionBusinessRulePacket Element\Attribute Table

Element/Tag	Definition	Attribute	Element/Attribute Value and Description
<TransactionBusinessRulePacket>	The opening and closing tag of the TransactionBusinessRulePacket Business Rule.		
<Rule>	Required and repeatable element; <Rule> tag is used to mention the Name of the business rule that is to be executed when the transaction is processed.	OVERRIDABLE ERRORSTATUSCODE	Required element value; "BusinessRuleName" - Name of the Business Rule that needs to be attached to the Transaction. Example: <Rule>CopyToPolicyFields</Rule> <Rule>ValidateExpressions</Rule> String; Optional attribute; This attribute is used to indicate whether the Transaction processing can be continued or not, when the attached business rules results in some errors. Required attribute value; Auto - Defines the ability to Auto override. If set to "Auto" errors will be auto overridden. Yes - Defines the ability to override. If set to "Yes" an errors message with check box will be displayed, upon clicking

		IF	<p>in the check box the error will be overridden. No - If set to "No" errors can not be overridden.</p> <p>Optional attribute; Code (as defined in AsCodeErrorStatus) is the number assigned to the ERRORSTATUSCODE.</p> <p>Example: ERRORSTATUSCODE="02" - Error/Errors in Activity. ERRORSTATUSCODE="01" - No Errors or not processed yet. ERRORSTATUSCODE="03" - Warning/Activity Processed successfully but there were warnings.</p> <p>Optional attribute; The condition to be satisfied in order to execute the attached business rule during the Transaction processing.</p>
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4. TransactionCosmetics

Description

This rule controls the graphics like icons, buttons, etc. of the transaction to which it is associated. This rule can also be used,

- a) To display a value from the transaction's XML, on the Activity Screen.
- b) To warn the Users for the Delete, Recycle and Reverse button click actions.

Similar to the 'TransactionBusinessRulePacket', this rule should also be attached (Overridden) to all the transactions.

TransactionCosmetics Element\Attribute Table

Element/Tag	Definition	Attribute	Element/Attribute Value and Description
<TransactionCosmetics>	Required element; The opening and closing tag of the TransactionCosmetics Business Rule.		
<Icon>	<p>Required element; The Icons help users quickly recognize the activities.</p> <p><Icon> tag is used to mention the icon name (.GIF) with which the Activity should be displayed in the Activity Screen. Upon moving the mouse, over the icon next to the activity, a short description of the activity (Processed By, Active From Date etc) will be displayed. Clicking the Icon will provide much more detailed information on that activity.</p> <p>If the <Icon> tag is not configured in TransactionCosmetics Business Rule, a Red "X" mark (unavailability of the icon image) will be displayed instead of the icon on the left side of the activity (Activity icon) in the ActivityScreen. But the functionality of the icon will continue to behave the same.</p>		<p>String; Required element value; Defines the icon name (.GIF) Ex: <Icon>AsIconIssue.GIF</Icon></p>
<Button>	<p>Required element; This tag is used to mention the button name (.GIF) with which the Activity Details and Activity Results windows should be displayed. The button will be displayed on the top left corner of the</p>		<p>String; Required element value; Defines the button name (.GIF) Ex: <Button>AsButtonIssue.GIF</Button></p>

	<p>Activity Details and Activity Results windows. If this tag is not configured in TransactionCosmetics Business Rule, a Red "X" mark (unavailability of the button image) will be displayed instead of the button GIF image on the top left corner of the Activity Details and Activity Results windows.</p> <p>Note: Even though it is called a button, it is displayed in the same manner as an icon</p>		
<Reverse>	<p>Required element; This tag is used to mention the name of the image with which the Reversed/Recycled Activities i.e. the activities in Pending (Reversal) status, should be displayed on the Activity screen</p> <p>If this tag is not configured in TransactionCosmetics Business Rule, a Red "X" mark (unavailability of the image) will be displayed in the place of the (Reverse) image on the left side of the Reversed/Recycled Activities on the Activity Screen.</p>		<p>String; Required element value; Defines the reverse name (.GIF) Ex: <Reverse>AsReverseIssue.GIF</Reverse></p>
<Quote>	<p>Optional element; This tag is used to mention the name of the image with which the Quote button should be displayed in the Activity Details window. If this tag is not configured in TransactionCosmetics business rule, Quote button will be displayed as any other regular buttons instead of an image.</p> <p>Note: QuoteScreen BR</p>		<p>String; Element value; Defines the quote icon name (.GIF) Ex: <Quote>AsQuoteIssue.GIF</Quote>.</p>

	<p>beneath the Quote button should have already been overridden for that Transaction.</p>		
<AmountField>	<p>Optional element; Using the <AmountField> tag, an amount from the Transaction can be displayed on the Activity Screen => Activity grid.</p> <p>Note: If "DetailField" tag also exists along with "AmountField" tag in TransactionCosmetics then the "AmountField" will take precedence over "DetailField".</p>	TOOLTIP	<p>Element value; Pre defined ActivityField or MathVariable from the transaction. For e.g.: <AmountField>GrossAmount</AmountField></p> <p>String; Optional attribute; This attribute is used to provide additional information (default or user-defined configurable tool tip message) on the value that is being displayed. Information is displayed when the user moves the mouse over the value.</p>
<DetailField>	<p>Optional element; DetailField tag is used to provide non numeric (amount) information in the Amount/Detail column of the Activity Screen => Activity grid.</p> <p>Note: If "AmountField" tag exists along with "DetailField" tag in TransactionCosmetics "AmountField" will take precedence over "DetailField".</p>	TOOLTIP	<p>Element value; ActivityField or MathVariable from the transaction. For Example: <DetailField>PremiumType</DetailField></p> <p>String; Optional attribute; This attribute is used to provide additional information (default or user-defined configurable tool tip message) on the value that is being displayed. Information is displayed when the user moves the mouse over the value.</p>
<Warnings>	<p>Optional element; <Warnings> tag is used to define the warning messages. This is to alert the users from inadvertently deleting a pending Activity or reversing/recycling an active Activity.</p> <p>Note: Warning messages are optional, may exist at the Screen Rule level or at the Transaction Cosmetics Rule .</p> <p>Warning messages configured at the</p>		

	<p>TransactionCosmentics level takes priority over those at the Screen Rule level.</p> <p>If Warning messages are not configured at both the levels, then no warning messages will be displayed when the user Deletes, Recycles or Reverses a transaction.</p>		
<DeleteWarning>	<p>This tag is used to define the Warning messages that are to be displayed, when the User clicks the Delete icon (trash can) of a Pending activity. This is to prevent the user from inadvertently deleting a pending Activity.</p>	MESSAGE	<p>Text; Optional element Value; Element value to control the display of error message by using "Yes" & "No".</p> <p>Yes - If the tag value is set to "Yes", the default/specified warning will be displayed with 'Ok' & 'Cancel' buttons. Upon clicking on the Ok button the activity can be deleted and upon clicking on Cancel button activity can not be deleted and displays the activity on the activity screen as normal.</p> <p>No - If the tag value is set to "No" the warning will not be displayed.</p> <p>String; Optional attribute; Can be used to specify the Warning message upon deleting the activity. A specified warning message displays upon clicking on the trashcan icon when MESSAGE attribute is defined. The MESSAGE attribute is not present or is an empty string, the default message is displayed as "Are you sure?"</p>
<ReverseWarning>	<p>This tag is used to define the Warning messages that are to be displayed, when the User clicks the Reverse icon (trash can) of an Active activity. This is to prevent the user from inadvertently deleting a pending Activity.</p>	MESSAGE	<p>Text; Optional element Value; Element value to control the display of error message by using "Yes" & "No".</p> <p>Yes - If the tag value is set to "Yes", the default/specified warning will be displayed with 'Ok' & 'Cancel' buttons. Upon clicking on the Ok button the activity can be reversed and upon clicking on Cancel button activity can not be reversed and displays the activity on the activity screen as normal.</p> <p>No - If the tag value is set to "No" the warning will not be displayed.</p> <p>String; Optional attribute;</p>

			Can be used to specify the Warning message upon reversing the activity. A specified warning message displays upon clicking on the reverse button when MESSAGE attribute is defined. The MESSAGE attribute is not present or is an empty string, the default message is displayed as "Are you sure?"
<RecycleWarning>	This tag is used to define the Warning messages that are to be displayed, when the User clicks the Recycle icon of an Active activity. This is to prevent the user from inadvertently recycling an active Activity.	MESSAGE	<p>Text; Optional element Value; Element value to control the display of error message by using "Yes" & "No".</p> <p>Yes - If the tag value is set to "Yes", the default/specified warning will be displayed with 'Ok' & 'Cancel' buttons. Upon clicking on the Ok button the activity can be recycled and upon clicking on Cancel button activity can not be recycled and displays the activity on the activity screen as normal.</p> <p>No - If the tag value is set to "No" the warning will not be displayed.</p> <p>String; Optional attribute; Can be used to specify the Warning message upon recycling the activity. A specified warning message displays upon clicking on the recycle button when MESSAGE attribute is defined. The MESSAGE attribute is not present or is an empty string, the default message is displayed as "Are you sure?"</p>

5. Transaction Times

Description

The TransactionTimes business rule allows adding/updating transactions to be prohibited during specified periods of the time during the day. At any given time applications require that certain dates be available in order for these programs to conduct their functions. Throughout the day all of the business rules and interface will need to go to a common places to figure out what time the market is suppose to close to validate if the action that is about to occur is valid so, this business rule uses the AsSystemDate which pulls the "MarketCloseTime" field value from AsSystemdateField to prohibit the adding/updating transactions any time after the value in the field would be considered to be after the cutoff.

This business rule functions simultaneously with the SystemDateScreen business rule. The dynamic fields within the SystemDate business rule are linked to TransactionTime business rule, the configuration instructs the dynamic fields when to stop any Transaction that is configured with this transaction configuration. During processing the system will first check for ScreenTimes in the transaction xml / policy activity screen. If the screen times does not exist then the system will check for TransactionTimes.

TransactionTimes Element\Attribute Table

Element/Tag	Definition	Attribute	Element/Attribute Value and Description
<TransactionTimes>	The opening and closing tag of the TransactionTimes Business Rule.		
<Prohibit>	<p>Required and Repeatable Element; The Prohibit tag allows to prevent the users from adding/updating a transaction between two specified times (StartTime and EndTime) or after the cutoff date specified in <AsSystemDate> tag. Used to defines the transaction types that are not allowed after a specified time via TYPE attribute and controls the security roles that may add/update a transaction during the prohibited time via OVERRIDABLE attribute and also used to define an error message that the actions are prohibited, via the MESSAGE attribute. And also used to control the effective date of the activity can be set to current date or next business day.</p>	<p>TYPE</p> <p>OVERRIDABLE</p> <p>MESSAGE</p> <p>AUTODATE</p>	<p>String; Required Attribute Value; Indicates the type of actions to be prohibited during the specified time. The TYPE attribute can be set to "Add"/"Update" and it could be used to specify other prohibited actions in the future between certain timings.</p> <p>Add - Indicates the Restriction of additions of new activities from the activity detail window between certain timings.</p> <p>Update - Indicates the Restriction of updates to existing activities from the activity detail window between certain timings.</p> <p>String; Required Attribute Value; The OVERRIDABLE attribute indicates to specify a comma delimited list of security roles that may add/update a transaction during the prohibited time. This is an exception to the prohibition. Ex: OVERRIDABLE="Super, Manager"</p> <p>String; Required Attribute Value; The MESSAGE attribute is used to specify a default or an user defined error message, that will display to the user upon adding/updating a transaction during the prohibited period. If the MESSAGE attribute is an empty string, the default message is displayed as "Add/Update operation is not allowed at this time" other wise the user defined error message will be displayed.</p> <p>String; Optional Attribute; When the system time is after the time in the TransactionTimes business rule, AUTODATE attribute is used to allow an action during the prohibited time by changing the effective date to current or future date via manually or automatically.</p> <p>FutureDateAuto -When the effective date of the activity is current date, then it controls the effective date to be set automatically to the next business day and no pop-up or warning is displayed (as it automatically set the message to "" empty).</p>

			<p>FutureDateManual -when the effective date of the activity is the current system date, a pop-up is presented to an authorized user asking whether or not to enter the activity for the next business day. If the user selects "OK", the activity is entered for the next business day. If the user selects "Cancel", the activity is not entered.</p> <p>Denied - Setting it to denied, makes it the default existing behavior as an error message will be popped up saying that can not add/update the transaction during the prohibited period.</p>
<StartTime>	<p>Required Element; The StartTime tag specifies the beginning of the prohibited period in military time which transactions cannot be entered/updated.</p> <p><StartTime> and <EndTime> tags are used as substitute for the <AsSystemDate> tag. When <StartTime> and <EndTime> tags are used there is no need to use <AsSystemdate> tag.</p>		<p>Required Element Value; Integer; String; Indicates the Military Time to be specified to prohibit specified actions starting from that Start Time. Ex: <StartTime>2000</StartTime></p>
<EndTime>	<p>Required Element; The EndTime tag specifies the ending of the prohibited period in military time which transactions cannot be entered/updated.</p> <p><EndTime> and <StartTime> tags are used as substitute for the <AsSystemDate> tag. When <EndTime> and <StartTime> tags are used there is no need to use <AsSystemdate> tag.</p>		<p>Required Element Value; Integer; String; Indicates the Military Time to be specified to prohibit specified actions starting from the specified Starting time until specified End Time. Ex: <EndTime>2001</EndTime></p>
<AsSystemDate>	Required Element;		Required Element Value;

	<p>This element indicates the field value from AsSystemdateField. Holds a field in AsSystemDateField table, which will define when the cutoff time is for the given day.</p> <p>This tag is used as substitute for the <StartTime> tag and <EndTime> tag. When <AsSystemdate> tag is used there is no need to use those two tags.</p>		<p>Indicates the field name from AsSystemDateField. The field name which is defined in SystemDateScreen business rule, which pulls the System Date from AsSystemDateField, the value will be used to determine the cutoff for the given day.</p> <p>Ex: <AsSystemDate>MarketCloseTime</AsSystemDate></p>
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XML Example

```
<TransactionTimes>
  <Prohibit TYPE="Add" OVERRIDABLE="Manager" MESSAGE="Cannot Add Transactions After 4:00">
    <StartTime>2000</StartTime>
    <EndTime>2001</EndTime> </Prohibit>
  <Prohibit TYPE="Update" OVERRIDABLE="Manager" MESSAGE="Cannot Update Transactions After 4:00">
    <AsSystemDate>MarketCloseTime</AsSystemDate>
  </Prohibit>
</TransactionTimes>
```

6. UpdateClientGroup

Description

This business rule allows for the configuration of the Update Client Group rule. It retrieves a collection of Client GroupGuids for policies within a Group and allows updates to be made to the client group information at the Client level.

UpdateClientGroup Element\Attribute Table

Element/Tag	Definition	Attribute	Element/Attribute Value and Description
<UpdateClientGroup>	The opening and closing tag of the UpdateClientGroup Business Rule.		
<ClientGroup>		TYPE	StringArray Defines the value of an activity math variable name that holds the ClientGroupGuid(s).
<Fields>	Allows configuration of dynamic fields.		
<OnLoad> <OnChange>			

XML Data

```
<UpdateClientGroup>
  <ClientGroup TYPE="StringArray">GroupBillStatusUpdateList</ClientGroup>
  <Fields>
    <Field>
      <From>NewGroupBillStatus</From>
      <To>GroupBillStatus</To>
    </Field>
  </Fields>
</UpdateClientGroup>
```

7. ValidateExpressions

Description

The Validation Expressions section in a screen rule or a transaction, supports the ability to configure "hard" edits or pop up error messages. This is accomplished by referencing fields within the rule using a scripting language called JavaScript. It allows user to validate input values to make sure they are acceptable before they are submitted to the server. The Functionality of this business rule is to identify errors, fix and allow overrides.

ValidateExpressions Element \ Attribute Table

Element/Tag	Definition	Attribute	Element/Attribute Value and Description
<ValidateExpressions>	<p>The opening and closing tag of the ValidateExpression s Business Rule. ValidateExpression s tag defines the error messages and the conditions for validation default.</p> <p>Note: This business rule is overridden at the Transaction level.</p> <p>Multiple alerts can be added within the same expression.</p>		
<Expression>	<p>Required and Repeatable Element;</p> <p>This tag specifies the error messages to be displayed on the screen when a specific Condition is evaluated to be True/ False.</p>	TYPE	<p>Required Element value; Expression</p> <p>Specifies the condition that needs to be evaluated upon trying to process the Transaction. This is useful as it validates the input values to make sure that they are acceptable before they are submitted to the server.</p> <p>Note: Java script language is used to write a condition referencing fields and screen names.</p> <p>Optional Attribute;</p>

	<p>Language/Code used is JavaScript. Indicates validation error messages including required attributes and values for error conditions. In general Expression JavaScript syntax contains three distinct parts:</p> <ol style="list-style-type: none"> 1. the form name (i.e., the screen name). 2. the name of the field. 3. the function. 	<p>OVERRIDEABLE</p> <p>MESSAGE</p> <p>ERRORNUMBER</p> <p>FIX</p>	<p>ErrorOnTrue/ErrorOnFalse Tells the math engine to error if the expression is evaluated to True or False. ErrorOnTrue - If the Expression is true then displays the error message. ErrorOnFalse - If the Expression is false then displays the error message. Note: ErrorOnFalse is a default value if TYPE="ErrorOnTrue" is not specified.</p> <p>Optional Attribute; Auto/Yes/SecurityRole This attribute is used to indicate whether the error messages can be overridden or not Auto - Defines the ability to automatically override the error Yes - When set to "Yes", the error messages will be displayed with a check box in the Error window. Clicking the checkbox will allow the User to override the error. SecurityRole - This attribute value is used to indicate the error message can only be overridden by someone with a specified security role. The security Role name from the AsSecurityRole database table can be used to specify the security role as comma separated list. E.g.: OVERRIDABLE="Yes, SecurityRole1, SecurityRole2, SecurityRole3" No - If set to "No" errors can not be overridden.</p> <p>Required Attribute; = "ErrorMessage" This attribute is used to specify the error message that should be displayed upon evaluating the condition.</p> <p>Optional Attribute; = "ErrorNumber" Indicates the field value to define error message activity. Code values for error message from the AsErrorCatalog database table. Example: LH001, U001, V000, V001, V012, V020</p> <p>Optional Attribute; = "ErrorFixTipMessage" To provide instructions to the Users to guide them in correcting the issue that caused the error message. The actual error fix tips should be specified as the value. For Example: =====</p> <p>==</p> <p>ERRORNUMBER ErrorFixTip</p> <p>=====</p> <p>==</p>
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			LH001 - Change The Members Age or Override U001 - (null) ===== == If the LH001 Error Number is specified in "ERRORNUMBER" attribute then in the "FIX" attribute the "ErrorFixTip" should be configured.
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8. ValuationCalculationOrder

ValuationCalculationOrder Business Rule is used to specify the order in which certain Valuation Calculations should be processed by the System. These calculations are standard calculations that directly impact the Cash Value such as FreeAmount, MarketValueAdjustment, SurrenderCharges, RedemptionFee.

Additional Information

The business rules that represent these calculations are as follows:

FreeAmount (FreeAmountFormula), MVA (MVAAmountFormula), SurrenderCharges (SurrenderCharges), RedemptionFee (RedemptionAmountFormula).

These Business Rules representing the calculations are listed within the ValuationCalculationOrder Business Rule.

Note:

- If the ValuationCalculationOrder rule is not included (i.e. overridden at the Plan level), the system will attempt to run all the calculation business rules. This is to support the backwards Compatibility.
- IF the ValuationCalculationOrder br is present with empty tags i.e. only with the starting and ending tags, then none of the available calculation business rules will get executed. This will prevent the system from spending time to try to execute the calculation rules, thereby improving the performance of the system
- If the calculation business rules are specified in the ValuationCalculationOrder br, then only those referenced rules will be used to calculate the cash values as opposed to executing all the calculation rules.

This rule will have a plan level override and it not associated with any transaction.

ValuationCalculationOrder Element\Attribute Table

Element/Tag	Definition	Attribute	Element/Attribute Value and Description
<ValuationCalculationOrder>	The opening and closing tag of the ValuationCalculationOrder Business Rule.		
<Action>	Optional, repeatable element; This tag is used to list the Calculation Business Rules. Example: FreeAmountFormula, MVAAmountFormula, SurrenderCharges, RedemptionAmountFormula	ORDER	Required element value; Values for the element can be "FreeAmount", "MVA", "RedemptionFee" and "SurrenderCharges" Optional attribute;

			Integer: (values can be 1, 2, etc.) System will process the valuation based on the ORDER number(which is ORDER attribute value) Note: ORDER attribute can be used only when there are more than one <Action> elements.
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9. ValuationDetails

Description

This Business Rule allows configuration of the ValuationDetails Business Rule.

ValuationDetails Element \ Attribute Table

Element\Tag	Attribute\Definition\Value\Data Type	
<ValuationDetails> </ValuationDetails>	Required parent element that indicates the opening and closing of the ValuationDetails business rule.	
<ArrayToXML>	DEPOSITLIST	

10. ValuesScreen

Description

ValuesScreen BR is configured at the Plan Level. This rule is used with PolicyValues BR to display the Policy's values on the Values window (invoked by clicking the Values button on the Policy Screen). PolicyValues business rule must be configured prior to configuring the ValuesScreen business rule. ValuesScreen BR dictates how to display (format) the item/variable -such as currency, text, etc...on the Values Screen whereas PolicyValues BR specifies the math variables that are to be calculated and displayed on the ValuesScreen.

In addition, ValuesScreen rule can also perform the following:

- Display the valuation date (from PolicyValues) on the Values screen (policy level).
- Process the validations on the ValuesScreen.
- Display the Fund details and Pie Charts for Allocations and Assets.

ValuesScreen Element\Attribute Table

Element/Tag	Definition	Attribute	Element/Attribute Value and Description
<ValuesScreen>	The opening and closing tag of the Values Screen Business Rule.		
<PolicyValues>	Required element;	ALIGNMENT	Optional attribute;

	This tag is used to control the display of Policy values in the PolicyValue section of the ValuesScreen.		To align the Field Names in the PolicyValue section of the Vales Screen. = "Left / Right" Left: Policy values are assigned to the Left. Right: Policy values are assigned to the Right
<Fields>	Required element; This tag is used to configure the properties of the Fields with which they should be displayed in the Policy Values section.		
<Field>	Defines the description and display of the fields in the Policy Values section of the screen.	TITLE FORMAT	Required Element Value; MathVariable / Policy_FieldName / Blank / Line MathVariable: To retrieve the mathvariable values defined in the PolicyValues br Policy_FieldName: To retrieve the values from the PolicyScreen Fields. For e.g.: Policy_PolicyNumber Blank: To display blank space Line: To display the horizontal line Optional attribute; To define the display name of the Fields in the ValuesScreen. Optional attribute; To define the formatting of the Field values in the ValuesScreen CURRENCY / TEXT / DATE / PERCENT CURRENCY: Formats the policy value to CURRENCY TEXT: Formats the policy value to TEXT DATE: Formats the policy value to DATE PERCENT: Formats the policy value to PERCENT
<FundDetails>	Required element; Fund details are displayed	BREAKOUTFORCHILD	Optional attribute; This attribute is used to

	<p>within a table in the Fund section of the ValuesScreen. This tag is used to configure the properties with which these Fund details should be displayed in various columns.</p> <p>Note: By default, Fund Name and Cash Value columns are always displayed in Fund Details section.</p>		<p>indicate whether or not the Fund details table should have an option to expand a parent fund to show the cash value distributions in each of the children, as of the specified effective date</p> <p>Yes / No</p> <p>Yes: To display the Parent fund with an Expand ('+') sign, clicking which expands and displays the Child funds with the respective Cash Values</p> <p>No: To display the CashValue distributions for each of the Children funds participating in the Policy</p> <p>Note: When the money is invested on a active Child fund they will use their Unit Values to calculate the value of that piece of money for their lifetime.</p>
<Exclude>	<p>Optional element; To exclude the Funds (in which the Policy has invested money) from being displayed in the Fund Details section of the Values Screen.</p>	CASHVALUEZERO	<p>Optional attribute; To indicate whether the fund should be excluded only when the Cash Value is zero.</p> <p>= "Yes / No"</p> <p>Yes: To indicate that the specified fund can be excluded only if its Cash Value is zero.</p> <p>No: To indicate that the specified fund can be excluded even if its Cash Value is not zero.</p>
<Fund>	<p>Required/Repeatable element; Name of fund to be excluded from displaying in the Fund Details table.</p>		<p>Required Element value; FundName Name of the Fund that needs to be excluded.</p>
<Include>	<p>Optional element; To include the Funds (in which the Policy has invested money) that are to be displayed in the Asset or Allocation pie chart in the Values Screen.</p>		
<Fund>	<p>Required element; Name of the fund to be</p>		<p>Required Element value; FundName</p>

	included in the list.		Name of the Fund that needs to be included.
<Columns>	Optional element; Defines the columns that will be displayed within the table in the Fund details section		
<Units>	Optional element; Defines the description of the column "Units" for a particular fund. Units is no. of Units owned for an investment on the fund.	TITLE	Optional attribute; To define the display name of the Columns within the Fund details table.
<UnitValue>	Optional element; Defines the description of the column "UnitValue" for a particular fund which displays. Unit value price of each unit.	TITLE FORMAT	Optional attribute; = "String" To define the display name of the Columns within the Fund details table Optional attribute; = "CURRENCY" To define the formatting of the UnitValue column values in the ValuesScreen CURRENCY: Formats the policy value to CURRENCY.
<SurrenderValue>	Optional element; Defines the description of the column "SurrenderValue" for a particular fund Surrender value is sum of money an insurance company will pay to the policyholder or annuity holder in the event his or her policy is voluntarily terminated before its maturity or the insured event occurs.	TITLE FORMAT	Optional attribute; = "String" To define the display name of the Columns within the Fund details table Optional attribute; = "CURRENCY" To define the formatting of the SurrenderValue column values in the ValuesScreen CURRENCY: Formats the policy value to CURRENCY.
<Principal>	Optional element; Defines the description of the column "Principal" for a particular fund Original amount of a investment on which interest is calculated.	TITLE FORMAT	Optional attribute; = "String" To define the display name of the Columns within the Fund details table Optional attribute;

			<p>= "CURRENCY" To define the formatting of the Principal column values in the ValuesScreen CURRENCY: Formats the policy value to CURRENCY.</p>
<Gain>	<p>Optional element; Defines the description of the column "Gain" for a particular fund Gain is an increase in value, as of an asset, including most charges.</p>	<p>TITLE</p> <p>FORMAT</p>	<p>Optional attribute; = "String" To define the display name of the Columns within the Fund details table.</p> <p>Optional attribute; = "CURRENCY" To define the formatting of the Gain column values in the ValuesScreen CURRENCY: Formats the policy value to CURRENCY.</p>
<NetGain>	Controls what appears in the deposit details section.	<p>TITLE</p> <p>FORMAT</p>	<p>Optional attribute; = "String" To define the display name of the Columns within the Fund details table.</p> <p>Optional attribute; = "CURRENCY" To define the formatting of the NetGain column values in the ValuesScreen CURRENCY: Formats the policy value to CURRENCY.</p>
<FreeAmount>	Name of fund to exclude from the list.	<p>TITLE</p> <p>FORMAT</p>	<p>Optional attribute; = "String" To define the display name of the Columns within the Fund details table.</p> <p>Optional attribute; = "CURRENCY" To define the formatting of the FreeAmount column values in the ValuesScreen CURRENCY: Formats the policy value to CURRENCY.</p>
<MVAAmount>	Funds to include in the list.	TITLE	Optional attribute;

		FORMAT	<p>= "String" To define the display name of the Columns within the Fund details table</p> <p>Optional attribute; = "CURRENCY" To define the formatting of the MVAAmount column values in the ValuesScreen CURRENCY: Formats the policy value to CURRENCY.</p>
<GuaranteedAmount>	Controls what appears in the deposit details section.	TITLE FORMAT	<p>Optional attribute; = "String" To define the display name of the Columns within the Fund details table.</p> <p>Optional attribute; = "CURRENCY" To define the formatting of the GuaranteedAmount column values in the ValuesScreen CURRENCY: Formats the policy value to CURRENCY.</p>
<Graphs>	Optional element; To configure the display of pie charts for Assets and Allocations.	ASSESTS ALLOCATIONS	<p>Optional attribute; Yes / No Yes: Displays the pie chart for Assets. No: When set to "No" pie chart for Assets will not be displayed. If this attribute is not present pie chart for Assets will not be displayed.</p> <p>Optional attribute; Yes / No Yes: Displays the pie chart for Allocations No: When set to "No" pie chart for Allocations will not be displayed. If this attribute is not present pie chart for Allocations will not be displayed.</p>
<Validation>	The starting tag used to enable this functionality. Provides		

	online page error message via Java Script. Press <Validation> link for additional information on the <Validation> Element configuration.		
<DefaultValuationDate>	<p>Optional element; Defines the valuation date to be set on Values screen. Note: If the <DefaultValuationDate> element is not included in this Business Rule or if the TYPE attribute is omitted in this element, then the current system date will be the default valuation date.</p>	<p>TYPE</p> <p>XPATH</p>	<p>Element value is required only when the TYPE attributes values are SQL or SQLPATH.</p> <p>When TYPE="SQL", value can be sql query which will set the resulting date of the SQL as valuation date.</p> <p>When TYPE="SQLPATH", value can be sql query which will refer to the XPATH value in the resulting data of the SQL and set the date as valuation date.</p> <p>Optional attribute; To indicate the source using which default valuation date should be determined. = "SystemDate / SQL / SQLXPATH" SystemDate: Defaults valuation date to the current system date SQL: Defaults valuation date to the resulting date of the SQL SQLXPATH: When this TYPE="SQLXPATH", it uses a second attribute XPATH, value of the XPATH attribute will be run against the results of the SQL. If the tag is not present default valuation date is current system date.</p> <p>Optional attribute; applicable only when TYPE="SQLXPATH"; = "String" For exp. /Flow/CurrentDate /Flow/PreviousDate</p>

			<p>/Flow/NextDate XPATH is used to parse the XML in order to access a particular value within the ValuationXML from the SQL query result. Any date element can be used as sub element within the ValuationXML from the SQL query result.</p> <p>Additional information: ValuationXML is stored in a blob and specific variables can be used within the transaction XML once they are pulled from the entire ValuationXML blob.</p> <p>In order to get a value in the XPATH, all of the nodes it takes to find the value using the XML MathVariable Type should be specified.</p>
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ValuesScreen – Sample Screen Image

Database Tables for ValuesScreen

Table Name	Description
AsPolicy	Stores key data related to Policies
AsPolicyField	Stores Field names and values related to Policies
AsStateApproval	Stores States in which product can be sold
AsValuation	Holds values of amounts associated with fund allocations
AsValuationXML	Carries all information regarding the value of a policy linked to an activity

XML Example

```
<ValuesScreen>
  <PolicyDetails/>
  <PolicyValues>
    <Fields>
      <Field TITLE="Policy Account Value" FORMAT="CURRENCY">PolicyCashValue</Field>
      <Field TITLE="">Blank</Field>
      <Field TITLE="Policy Issue Date" FORMAT="Date">Policy_AppSignDate</Field>
      <Field TITLE="">Blank</Field>
    </Fields>
  </PolicyValues>
  <FundDetails>
    <Columns>
      <Units TITLE="Units" FORMAT="BLANKON" FUNDTYPE="01,02,05"/>
    </Columns>
  </FundDetails>
  <Validation>
    <EffectiveDateNUVsMustExist>No</EffectiveDateNUVsMustExist>
  </Validation>
  <Graphs ALLOCATIONS="No" ASSETS="Yes"/>
  <DefaultValuationDate TYPE = "SQL">
    SELECT PreviousBusinessDay FROM AsSystemDate
    WHERE CurrentIndicator = 'Y'
  </DefaultValuationDate>
</ValuesScreen>
```

11. WithholdingScreen

Description

This business rule defines the layout of the Withholding Screen which signifies the amount or percentage of federal and state taxes to be withheld from taxable disbursements defined by the Policy Owner.

Additional Information:

WithholdingScreen can be built to address the withholdings at the Client, Policy, Plan and Activity level.

Following are some of the basic dynamic fields that are recommended to be present in the WithholdingScreen:

"Federal Percent", "Federal Amount", "State Percent", "State Amount", "Opt-out" and "State Form returned" radio button.

WithholdingScreen Element \ Attribute Table

Element/Tag	Definition	Attribute	Element/Attribute Value and Description
<WithholdingScreen>	The opening and closing tag of the WithholdingScreen Business Rule.		
<Fields>	Allows configuration of dynamic fields.		
<Field>	Required element; This element defines the description of each Field being configured Sub elements that can be configured for <Field> element are <Name>, <Display>, <DataType>, <Query>, <Options>, <Option>, <OptionValue>, <OptionText>, <Disabled>,		

	<Hidden>, <Tag>, <Length> and <Calculated>.		
--	---	--	--

WithholdingScreen Image

Database Tables for WithholdingScreen

Table Name	Description
AsWithholding	Stores information regarding withholding on a Policy / Plan /Activity
AsWithholdingField	Stores Field names and values from the WithholdingScreen Business Rule

XML Example

```

<WithholdingScreen>
  <Fields>
    <Field>
      <Name>FederalPercent</Name>
      <Display>Federal Percent</Display>
      <DataType>Percent</DataType>
    </Field>
    <Field>
      <Name>FederalAmount</Name>
      <Display>Federal Amount</Display>
      <DataType>Money</DataType>
    </Field>
    <Field>
      <Name>StatePercent</Name>
      <Display>State Percent</Display>
      <DataType>Percent</DataType>
    </Field>
    <Field>
      <Name>StateAmount</Name>
      <Display>State Amount</Display>
      <DataType>Money</DataType>
    </Field>
    <Field>
      <Name>OptOut</Name>
      <Display>Opt-Out</Display>
      <DataType>Radio</DataType>
      <DefaultValue>01</DefaultValue>
      <Disabled>No</Disabled>
      <Query TYPE="FIXED">
        <Options>
          <Option>
            <OptionValue>01</OptionValue>
            <OptionText>No</OptionText>
          </Option>
        </Options>
      </Query>
    </Field>
  </Fields>
</WithholdingScreen>

```

```

        </Option>
        <Option>
            <OptionValue>02</OptionValue>
            <OptionText>Yes</OptionText>
        </Option>
    </Options>
</Query>
</Field>
<Field>
    <Name>StateForm</Name>
    <Display>State Form Returned</Display>
    <DataType>Radio</DataType>
    <DefaultValue>01</DefaultValue>
    <Disabled>No</Disabled>
    <Query TYPE="FIXED">
        <Options>
            <Option>
                <OptionValue>01</OptionValue>
                <OptionText>No</OptionText>
            </Option>
            <Option>
                <OptionValue>02</OptionValue>
                <OptionText>Yes</OptionText>
            </Option>
        </Options>
    </Query>
</Field>
</Fields>
</WithholdingScreen>

```

12. WriteBenefitSplitAssignments

Description

This Business Rule allows configuration of the WriteBenefitSplitAssignments Business Rule.

WriteBenefitSplitAssignments Element \ Attribute Table

Element/Tag	Definition	Attribute	Element/Attribute Value and Description
<WriteBenefitSplitAssignments>	The opening and closing tag of the WriteBenefitSplitAssignments Business Rule.		
<ABLIndicator>	String; Math Variable or Value; To indicate whether the adjustment needs to be done to the ABLFund		If the ABLIndicator is Checked, <ABLFundType>, <ABLFundGUID>, <TotalABLBenefit> are needed. <Query> is ignored.
<ABLFundType>	String ; value; CodeValue of the ABLFundType from AsCodeFundType"		If decided to go for ABL, the entire investment is moved from Variable/Fixed funds to ABLFund.
<ABLFundGUID>	String ; Optional ; FUNDGUID of ABLFundType for the specific Plan"		There is only one ABLFund for each Plan. Even if ABL is applied to more than one Segment for a Policy, the investment is applied to the same

			single ABLFund of that Plan to which the Policy belongs
<TotalABLBenefit>	String; Represents the Total ABL Benefit amount to be adjusted.		
<Query>	ReturnsChild Funds, Child Fund price, Type, Units etc		Not required if <ABLIndicator> is Checked.
<TotalBenefit>	Represent the MathVariable that indicates the Total Benefit amount to be adjusted.		<TotalBenefit> or <BenefitPayment> designed to work either way.
<BenefitPercent>	Percentage of Benefit to be adjusted.		This field is not generally used.
<BenefitPayment>	String; MathVariable; Represents the MathVariable that indicates the modal payment.		<TotalBenefit> or <BenefitPayment> designed to work either way.
<MoneyTypes>	Opening and Closing tag of the allowed Money Types for the Assignment.		
<AnnuityPayment>	Name of the Money Type when the funds should be sold.		TypeCode corresponding to the Money Type.
<FundOverflow>	An account/reserve from where the fund is pulled when all the other sources are out of money.		TypeCode corresponding to the Money Type.

13. WriteDefaultAllocation

Description

Allocations are how money will be applied to the policy. WriteDefaultAllocation business rule instruct the system to write/copy the default allocations which are predefined funds, to the AsAllocation table for both Policy and Plan levels. It is customary to establish a Plan and Policy level default allocation. The allocation specified in this Business Rule is used if no other allocation instructions are given or if transaction processing dictates that all funds are deposited into a certain fund or set of funds. This BR allows an activity to insert/update default allocation records. Also it is used to control to recognize only positive allocations and ignore the negative allocations for all the source funds. Effective date column can be set in AsAllocation table via this business rule when the new allocation records are written/copied. This Business Rule can be used with any Transactions (like RebalanceStart, InitialPremium, SystematicWithdrawalStart etc) that performs Fund Allocations.

WriteDefaultAllocation Element\Attribute Table

Element/Tag	Definition	Attribute	Element/Attribute Value and Description
<WriteDefaultAllocation>	The opening and closing tag of the WriteDefaultAllocation Business Rule.	IF	Optional attribute; = "String" Defines a condition to determine whether this Business Rule should be executed or not If the condition is satisfied then an

			allocation record is created as specified in the configuration otherwise no record will be created. Note: If the IF condition is specified in <Allocation> tag then the condition in <Allocation> tag will takes the precedence over the If condition in <WriteDefaultAllocation> tag.
<Allocation>	Optional/ Repeatable element; This optional element is used to define the list of funds that should be available for allocations. Repeated for each Future or Activity Schedule Allocation to be created for the target Policy. Refer to the Transaction Configuration section of the Technical Manual for details about the <Allocation> element and the available options.	IF	Optional attribute; = "String" Defines a condition that will execute this BR when true. If the condition is satisfied then an allocation record is created otherwise no record will be created. Note: It takes precedence over the IF condition in <WriteDefaultAllocation> tag.
<From>	Required element; This element is used to specify the level of allocation to which a Policy or Plan level allocation should be changed.	POSITIVEONLY	Required Element value; Activity / Segment Activity - Indicates that the Activity level allocations should be used to change the Policy or Plan level allocation. Segment - Indicates that the SegmentDefault allocation should be used to change the Policy or Plan level allocation Note: Segment is not widely used Optional attribute; This attribute determines whether or not the Policy or Plan level allocations should be updated with both positive and negative allocations of the Source Funds. Yes - Indicates that only Positive allocations of a Fund should be written to the Policy or Plan level allocations. No - Indicates turn off functionality. Allocations written for the policy on the AsAllocation table will be for both positive and negative.
<AllocationTypeCode>	Required element; Indicates the target level allocation (Policy or Plan) for		Required Element value; AllocationTypeCode Indicates the Allocation Type from


```
<WriteDefaultAllocation>
  <From POSITIVEONLY="Yes">Activity</From>
  <!-- <From>Activity</From> -->
  <AllocationTypeCode TYPE="Policy">09</AllocationTypeCode>
</WriteDefaultAllocation>
```

Description

This Business Rule allows configuration of the WriteReinsuranceExcess Business Rule.

WriteReinsuranceExcess Element\Attribute Table

Element\Tag	Attribute\Definition\Value\Data Type
<WriteReinsuranceExcess>	Required element indicates the opening and closing elements of the

</WriteReinsuranceExcess>	WriteReinsuranceExcess business rule.
<Tests>	Allows configuration of Test(s) to see if section of rule should be invoked.
<Test>	Condition to test.
<NARAmount>	
<EffectiveDate>	

15. WriteSuspense

Description

This Business Rule allows configuration of the WriteSuspense Business Rule.

WriteSuspense Element\Attribute Table

Element\Tag	Attribute\Definition\Value\Data Type	
<WriteSuspense> </WriteSuspense>	Required element indicates the opening and closing elements of the WriteSuspense business rule.	
	COMPANYGUID	
	WRITEZERORESPONSE	
<TypeCode>	TYPE	Field/Value
<Amount>	TYPE	
<PolicyNumber>	TYPE	
<Owner>	TYPE	
<FirstName>	TYPE	
<LastName>	TYPE	
<AccountNumber>	TYPE	
<BankName>	TYPE	
<BankNumber>	TYPE	
<CheckNumber>	TYPE	
<BatchNumber>	TYPE	