

AGENDA

- What is Validation Rule and its purpose?
- How to begin with a Validation rule?
- Different parts of Validation Rules
- Database table
- Override Validation rules
- Best Practices

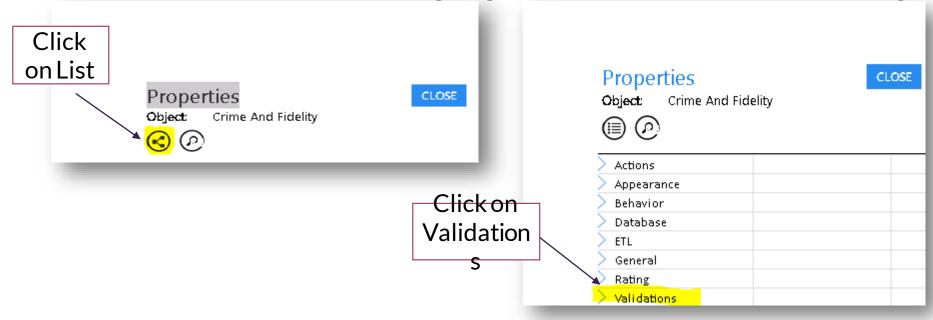


What is Validation Rule and its purpose?

- Validation Rule is one of the feature provided by Dev Studio to perform validations and display relevant messages.
- Validation Rules are Rules that are configured using Dev Studio, to validate Data based on Business Logic and need.
- Cover-All Dev studio provides common Base product to all the customers and as per customer requirement users can customize validations and display messages.
- Even in BASE we can define these validation rules. Messages are customized, here it does not mean customer specific. It means we can configure our own messages. E.g. For a required field, framework generates a message if data is not entered in the field, say "Please enter Effective Date". Now we want to override this message with "User, please enter Effective Date", then we will need validation rule.
- Also in case of base products, the existing validations of any field can be modified by using Validation Rule.

Validation List:

- Screens plug-in's Properties Editor (Right Panel) contains properties section of Object / Fields.
- Users can click on list section of Properties Editor (Right panel), to locate Validations. (Click on highlighted section as shown in images).

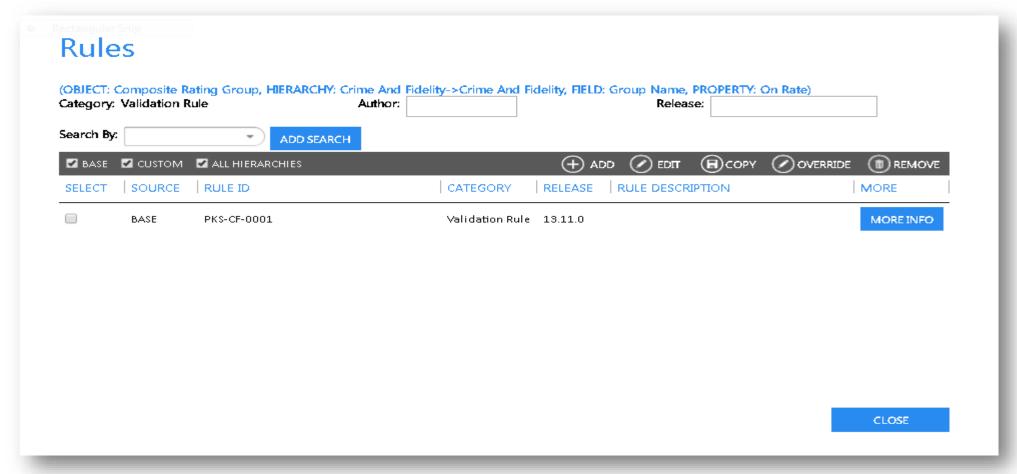




- Validation can be configured on 4 different properties:
 - On AutoSave: As soon as value of any particular field is saved. Validates the field without clicking on Save Button.
 - On Delete: On delete of an instance/record from the table. Fires a validation when delete button is clicked
 - On Rate: On Rating the quote/policy. Fires a validation when Rate button is clicked
 - On Save: On click of next button on screen. Fires a validation when Save button is clicked
 - On Request

Reference Link:https://confluence.majesco.com/display/MPCL/Data+Validations

- Validation RULE CONFIGURATION EDITOR:
 - The Editor layout is designed to view or edit Validation Rule attributes.



Button	Description
ADD	Allows to add a new rule.
EDIT	Allows to edit the selected rule.
COPY	Allows to create a copy of the selected rule.
REMOVE	Allows to delete the selected record.
OVERRIDE	Allows to override the selected record.

OVERRIDE: Based on customer requirement, BASE VALIDATION should be overridden using *OVERRIDE BASE*. This creates a new entry in the *pct_object_field_validations* table with same POI_NAME and it will shown as Custom under Source attribute in Dev Studio. The framework ignores the base validation and executes the custom validation.



- Validation Rules added by base user for a given property are called as Base Rules which are visible in both Base and Custom login of Cover-all Dev studio.
- As per customer requirement, customize Validation rules can be applied on the top of the Base Rules, those are called as Custom Rules.
- The information displayed in the top panel of Editor provides information about a Validation Rule attribute and has following fields. First top line indicates Parent object name, actual object, field name and the property on which the User is applying the Rule

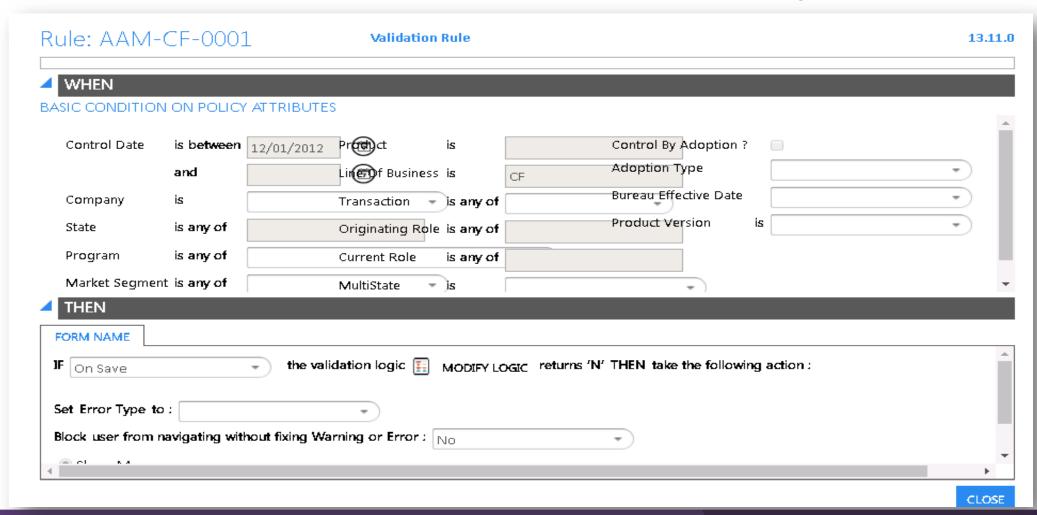
Attributes

Attribute	Description
CATEGORY	 This is the specification of the Validation Rule Default value: Validation Rule
AUTHOR	This column holds information of the User
RELEASE	 Product Release version from which User wants to apply Rule for a specific Property Example: Base Release no 16.1.0 Example: Custom Release no 41.0.0
SEARCH BY	Criteria to search rules

- Users can specifically filter on the type of Rules (Base, Custom and all hierarchies).
- Editor Bottom panel shows all Rules for specific Property and has following attributes.

Attribute	Description
SELECT	User can Edit Rule by selecting SELECT
SOURCE	o This column holds Type of Validation Rule
	o Base: If Validation Rules are created for the Base.
	Custom: If Validation rules are created for customize requirement
RULEID	This column holds Rule ID for specific field property
	o This is auto generated Id based on screen and description of the Rules.
CATEGORY	o This column holds Validation Rule
	o Default Value: Validation Rule
RELEASE	o Product Release version from which User wants to apply Rule for specific Property
	o This column is mandatory field
	o Example: Base Release no 16.1.0
	o Example: Custom Release no 40.0.0
RULE DESCRIPTION	o This column holds description of the applied Validation Rule for properties.
MORE	User can click on MORE INFO, to modify or add conditions/ define Rule

- RULE CONFIGURATION EDITOR: MORE INFO:
 - On click of MORE INFO/ADD button on panel it opens rule configuration editor



- The editor contains 3 main sections as mentioned below
 - WHEN
 - THEN
 - VALIDATION LOGIC
- The parameters of WHEN condition goes into **PCT_QUALIFIERS** table
- The parameters in THEN part goes to
 PCT_OBJECT_FIELD_VALIDATIONS table
- Whereas query in VALIDATION LOGIC part goes to PCT_QUALIFIER_CRITERIA.



RULE CONFIGURATION EDITOR: WHEN SECTION:

• In this section, user can apply conditions on Policy/System attributes and Advance conditions as per business requirement. This section is called as WHEN: BASIC CONDITION ON POLICY ATTRIBUTES

Attribute	Description
CONTROL DATE is between	User can apply condition by selecting CONTROL DATE range, between those dates Rule can be Active. The date entered for "and" can be Null is between: 01/01/2016 and: Null/01/01/2017
COMPANY	This column defines list of licensed companies for which the user is configuring the Rule. If Company is Null then rule can apply to all companies.
STATE is any of	This column holds the state code for which the rule is applicable. Null State Code record is applicable to all States. State Code is two-character string. Example: AL for Alabama

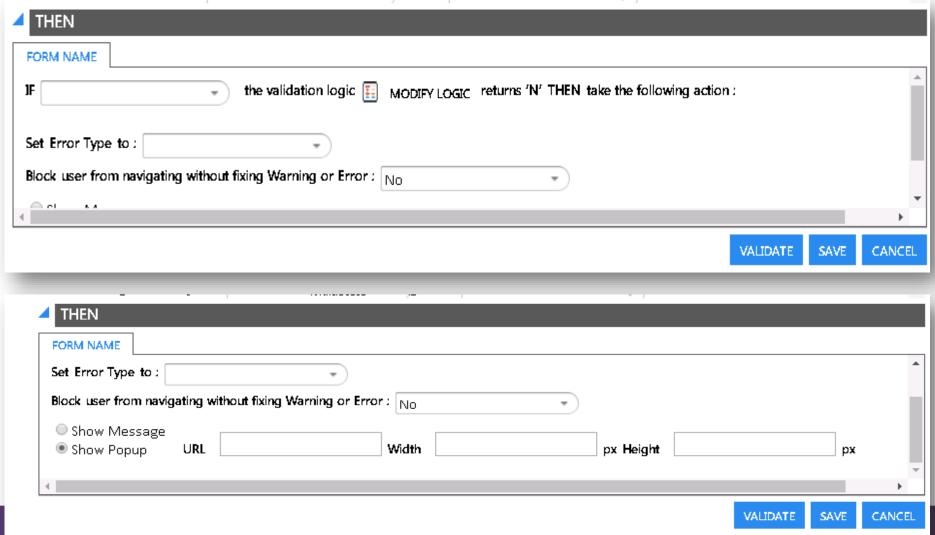
Attribute	Description
PROGRAM is any of	Users can select applicable program for which the Rule has to qualify. If there is no program configured, then Rule applies to all programs
MARKET SEGMENT is any of	This column defines list of Market Segment for which the user is configuring the Rule. If Market Segment is Null then rule can apply to all market.
PRODUCT is	This column holds the Product for which the rule is applicable. Null Product record is applicable to all Product.
LINE OF BUSINESS IS	This column defines Line of Business for which the User is configuring the Rule. The log-in Line of business having Default set to LOB Example: User Logs-in with General liability then the Line Of Business is GL

Attribute	Description
TRANSACTION is any of	This column defines Transaction for which the Rule is configured. Example: If Transaction is any of "CANCELLATION" then this Rule executes only for cancellation transactions performed on Policy.
ORIGINATING ROLE is any of	This column specifies the rule is applicable for any originating role. Null is applicable to all originating role.
CURRENT ROLE is any of	This column specifies the rule is applicable for any specific/set of role. Null is applicable to all role.
CONTROL BY ADOPTION	This column defines if this rule is to be adopted by customers. Not selected means adoption is not required.
ADOPTION TYPE	This column specifies the adoption type for this rule if control for adoption is selected.

Attribute	Description
BUREAU EFFECTIVE DATE	This column defines the date from which the rule is applicable as specified by bureau(for e.g. ISO)
PRODUCT VERSION is	This column holds Product version from which rule can be applied to the Field property. The Product version is of Base pack version
CUSTOM PACK VERSION	This column holds Custom version from which the rule can be applied to the Field property. The Custom version is for custom Rule

Data for WHEN section goes into PCT_QUALIFIERS table

- VALDATION RULE CONFIGURATION EDITOR: THEN SECTION
 - The THEN section of validation rule contains 5 section as mentioned below:

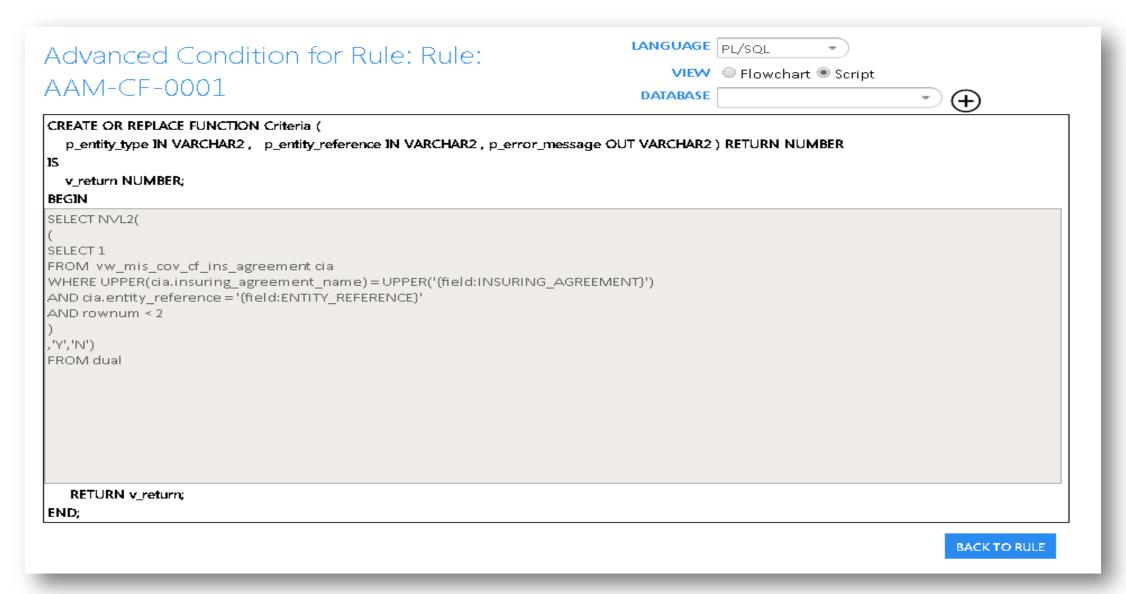


- **IF**: It specifies the property on which this validation needs to be executed. Different properties available here are ON RATE, ON DELETE, ON SAVE, ON AUTO SAVE, ON REQUEST.
- **VALIDATION LOGIC**: This section contains a query which should return either 'Y' or 'N'. This section provides a area where additional condition can be specified. If this query returns 'N' then only the validation message would be displayed.
- Set Error Type to: It has values as ERROR/WARN. Warning will always be displayed in a pop-up whereas ERROR is displayed below the field on which validation is written.
- Block user from navigating without fixing Warning or Error: It has two values Yes/No. It specifies if the user should be restricted from navigating further screens on display of Error message. If value is NO then user would be allowed to navigate to other screens whereas on YES it would not be allowed to navigate to other screens.

• SHOW: It has two options as Show Message/Show Pop Up. Show Message is used to configure a user defined error message where Show Pop Up is used to call a JSP page to show message. The JSP page will be developed to write customized logic of displaying message and other activities on JSP page. Parameters for THEN section goes into PCT_OBJECT_FIELD_VALIDATIONS table.

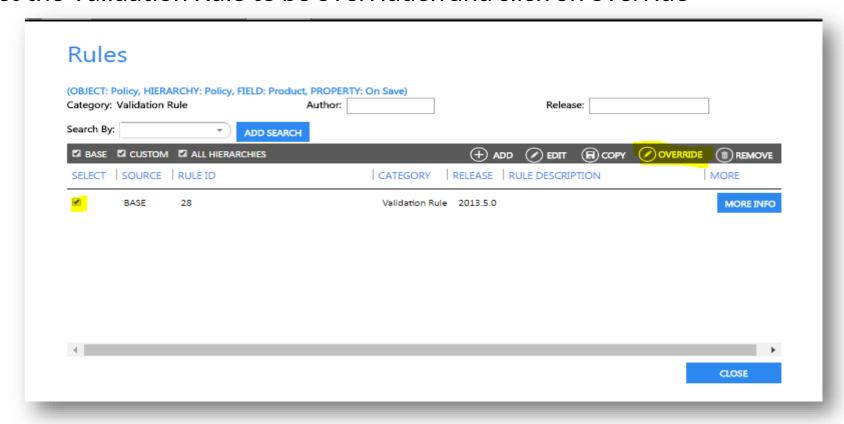
VALIDATION LOGIC SECTION:

- This provides section where additional condition can be used before showing a validation message.
- It contains a SQL query which can return 'Y' or 'N' value.
- On return of 'N' value the validation rule will show the message.
- This query goes into PCT_QUALIFIER_CRITERIA table



Override Validation rules

- If due to any customer requirement we have to override the BASE VALIDATION, we use OVERRIDE BASE. This create a new entry in pct_object_field_validations table with same POI_NAME. Framework will now ignore the base validation and will execute the custom validation
- Select the Validation Rule to be overridden and click on override



Best Practices

- To write Dynamic Validation Message, PL/SQL expression can be used that returns messages based on different conditions.
- Validation logic should return either 'N' or 'Y'.



THANK YOU!

