



**The Future of Insurance Starts Here**

**Ticket & Screen Plugin**



# AGENDA

- Dev-Studio Overview
- Dev-Studio Homepage
- Dev Studio Plugins Overview
- Ticket Plugin
- Screen Plugin & properties
- Properties Editor
- Composite Objects
- Best Practices



# Dev Studio Overview

- Dev Studio is Product Development and Configuration tool.
- Currently it is used for developing and configuring Insurance product for multiple Line of Business like Commercial Auto, General Liability, etc.
- It is also used as a deployment tool.
- **DevStudio** is a configuration engine that allows you to configure your product depending upon your requirements.
- **Policy** reads the configuration defined in Dev Studio and displays the product.
- Majesco platform has 3 components:
- **DevStudio** - Configure changes like creating Product, LOB followed by Build
- **Platform** - Includes core services like logging, security, versioning etc.
- **Policy** - Read the configuration from build installed here.(Target environment)

# Dev Studio Homepage



## Products

Business Owners <small>BUILD NEEDED: 55.0.0</small>	Commercial Auto <small>BUILD NEEDED: 55.0.0</small>
Commercial Inland Marine	Commercial Package
Commercial Property <small>BUILD NEEDED: 55.0.0</small>	Crime and Fidelity <small>BUILD NEEDED: 55.0.0</small>
General Liability	Personal Auto <small>BUILD NEEDED: 55.0.0</small>
Professional Liability	Workers Comp <small>BUILD NEEDED: 55.0.0</small>

## Line Of Business

Business Owners	Commercial Auto	Commercial Property	Crime & Fidelity
General Liability	Inland Marine	Personal Auto	Professional Liability
Workers Comp			

## General

Companies	New Product
Deployment	New LOB
Help Configuration	
Underwriting	
Report Generator	



# Navigator & Editor

DEV STUDIO

Product: Commercial Auto

View

New

Screens

Tables

Forms & Documents

Search

GO

Clear

☒ Base ☒ Custom

NAME	TYPE	SOURCE	DESCRIPTION
CA-FORMS-SCHEDULE	Document	Base	Forms Schedule
CA-GEN-CHANGE-ENDT-MISC	Document	Base	General Change Er
CA-INSTALLMENT-PLAN	Document	Base	Installment Plan
CA_Audit_Export_Import_Template	Document	Base	CA_Audit_Export_I

Bureau Adoptions

Document Ranking Rules

EDITOR

CA-FORMS-SCHEDULE x

Locked by : kajal@secura.com

\* ID: CA-FORMS-SCHEDULE

\* Source : Base

\* Type : Document

Document Mapping:

\* Name: CA-FORMS-SCHEDULE

\* State : Countrywide

Category

Manuscript ☐ Static ☐

\* Edition 12-08

\* Description Forms Schedule

Allow multiple attachments ☐

Allow manual upload ☐

EXPORT DOCUMENT

MODIFY DOCUMENT

ATTACHMENT LOGIC

TEMPLATES

VARIABLES

VARIABLE GROUPS

TAGS

ADD

COPY

EDIT

REMOVE

SELECT	SOURCE	PRODUCT	OVERRIDE BASE	RULE ID	EFFECTIVE DATE	EXPIRATION DATE	AUTO ATTACH	PROGRAM	COMPANY	ENTITY	TRANSACTION
<input type="checkbox"/>	Base	CA			01/02/2001		YES			All	Audit , Endorsement , New Business , Rene
<input type="checkbox"/>	Custom	CA	YES				YES			All	Endorsement , New Business , Renewal
<input type="checkbox"/>	Custom	CA	YES				YES			All	Audit , Endorsement , New Business , Rene
<input type="checkbox"/>	Custom	CA		CA-8872296-24301	03/19/2019		NO		SECURA Supreme Insurance Company	Proposal , Quote	

Tickets x

SEARCH

# Dev Studio Homepage Overview

**Product :** This section contains tiles which used to take build & install on specific products. It contents tiles for Bureau(ISO) & Non Bureau(custom) products.

**LOB (Line of Business):** This section contains tiles which are used to add or modify LOB specific screens , forms, rating algorithm ,rates etc. It contents tiles for Bureau(ISO) & Non Bureau(custom) LOB's.

**General :** This section contents tiles which are used to add company , deployment environment, new Product ,new LOB, underwriter etc.

# Dev Studio Plugins Overview

+	Screens
+	Tables
+	Rating
+	Forms & Documents
+	Bureau Adoptions
+	Surcharges, Taxes & Fees
+	Images
+	Custom Packs
-	Base Packs


- Used for configuration of Screens
- Used for creating table and Loading Data – Custom/ ISO/ NAIC/
- Used to configure rating methods and steps
- Used for configuring forms and documents
- Used for adopting rates specific to company/ states
- Used for configuring State Surcharges
- Used for configuring images for printing
- Used for creating Custom Packs
- Used for creating Base Packs

# Ticket Plugin

- Ticket plugin is used to create new tickets.
- To perform any add/modify/delete operation through Dev-studio we need a ticket.
- Each tickets are mapped to release version number. So whatever changes we perform using tickets those changes are mapped to specified release version number.
- Steps to create new Ticket:
  - ✓ Enter ticket Title.
  - ✓ Select Release Version
  - ✓ Select status for the issue.
  - ✓ Click Save.



# Ticket Plugin

 DEV STUDIO

Pradeep Kannauzia ▾

← Line Of Business: Commercial Auto

+ New ▾

≡ View ▾

Ticket

Add a new issue

Search ▾

Go

Clear

☒ Base ☒ Custom

NAME	DESCRIPTION
▶ Audit Details	
▶ Billing Account	
▶ Crime Information	
▶ Customer	
▶ Insured	
▶ Policy	
▶ Proposal	

+ Base Packs

Tickets ×

SEARCH



# Screen Plugin Overview

- Screen Plugin of Dev Studio provides the functionality required to manage and configure various Screen (Object) and its fields, which are required throughout the lifecycle of an insurance policy.
- A screen plugin includes entities, screens, objects and fields that can be configured by using tools and properties available in the screen editors.
- In Dev Studio every individual screen is called as an object.
- All objects(Screens) will be visible on expanding Screens plugin.
- Every object(Screen) has some properties which is available on properties tab.
- Every object can have multiple fields on it. And every field has its own properties which is available on properties tab.
- Toolbox tab is used to add new tools(fields/controls/objects) on object.

# Screen Plugin and properties

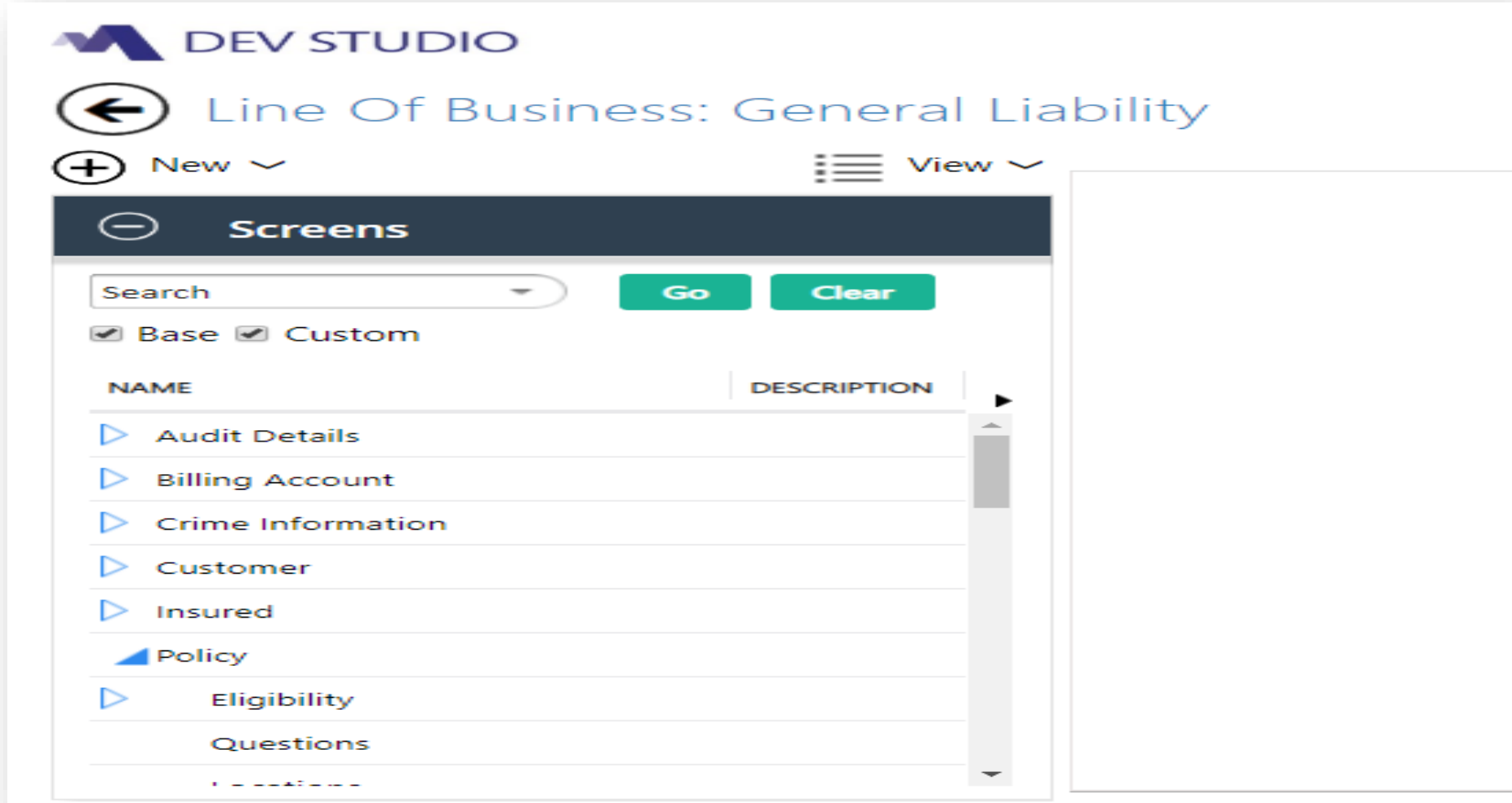
- **Keywords used throughout Screen Plugins**
- **Entities:** Entities are the Screen (Object) that does not have any parent associated with it. These screens are root screen, only child screen can be associated with them. E.g. Policy, Insured, Proposal etc.
- **Screen:** A screen is an object that is created as a child of an entity (building block for screen). Screen can be an object or combination of more than one object. Screen can be a child or parent of another screen. For Example: "General Liability", "Liquor Liability" etc.  
"Liquor Liability" object is child of "General Liability" object and the parent of "Classifications" object.
- **Object:** Object is made up of a collection of different kinds of fields. For Example: Location, Address, Name, etc.
- **Field:** Fields are the lowest attribute that has been defined on user interface (Object) to capture the policy data that may or may not be visible on screen/objects. For Example: "Insured Name", "Policy Number", "Composite Rating" etc.

# Screen Plugin and properties

- **Common Objects :** Common Objects are reusable objects that are created to be used across different Products/Line of Business. Fields that are created under these common objects are also common across the Products/Line of Business. Any object that is created above the Line of business is treated as a common object. For Example: On Policy Entity, Locations object is a common object, where Location address is child of the Locations object. Thus all the objects under the Policy entity are common objects. Which can be used in any product or line of business without recreating them
- **Line of Business/Product Objects :** Line of Business/Product is an object created for a specific Product/Line of Business and cannot be used in other Line of Business.
- For Example: Under General Liability, Premium & Production are general liability specific objects.

# Screen Plugin and properties

- Object Panel





# Screen Plugin and properties

- Object Editor

The screenshot displays the DEV STUDIO environment for editing a screen titled "Line Of Business: General Liability".

**Left Sidebar:**

- Screens:** A list of screens including Audit Details, Policy\_composite\_rating, Additional Named Insured, Locations, Broker, General Liability (highlighted), and KY Tax Exemption.
- Rating:** A section with a plus icon.
- Bureau Adoptions:** A section with a plus icon.

**Main Workspace:**

- Summary Section:** Contains a toolbar with icons for Save, Save And New, Cancel, and Delete, along with text options: YES, USE SELECTED ACCOUNT, CONTINUE, OK, CONTINUE, CONT.
- General Liability:** The main form area with the following fields:
  - Coverage Type: Text input field.
  - Primary State: Text input field.
  - Rating Plans: Text input field with the value "HEADING1".
  - Composite Rating: Checkmark input field.
  - Audit: Checkmark input field.
- KY Tax Information:** A section with the text "Do not apply City or County Taxes?" and a checkmark input field.

**Right Sidebar:** A vertical toolbar containing icons for TOOLBOX, PROPERTIES, and a search icon.

# Screen Plugin and properties

- Object Properties Panel

The screenshot displays the DEV STUDIO interface for configuring a screen plugin. The main window shows the 'General Liability' screen configuration, which includes a 'Summary Section' and a 'KY Tax Information' section. The 'Summary Section' contains fields for 'Coverage Type', 'Primary State', 'Rating Plans', and 'Composite Rating'. The 'KY Tax Information' section includes a checkbox for 'Do not apply City or County Taxes?'. The 'Properties' panel on the right lists various configuration options for the 'General Liability' object.

**DEV STUDIO** Pradeep Kannauzia

Line Of Business: General Liability

+ New View General Liability x

**Screens**

Search Go Clear

☒ Base ☒ Custom

NAME	DESCRIPTION
Audit Details	
Policy_composite_rating	
Additional Named Insured	
Locations	
Broker	
General Liability	
KY Tax Exemption	

+ Rating

+ Bureau Adoptions

**Summary Section**

Save Save And New Save And New Save And New Cancel Cancel Delete

☐ Show Hidden **General Liability**

Coverage Type

Primary State

Rating Plans HEADING1

Composite Rating ☐

Audit ☐

**KY Tax Information**

Do not apply City or County Taxes? ☐

**Properties** CLOSE

Object: General Liability

Database Column Name	POLICY_LOB_GL
Database Table Name	MIS_LOB_GL
Delete when Hidden	Yes
Display In Screen	No
Display In Table	No
Display Name	General Liability
Display Order	340101
Display URL	
ETL Method	Defined

TOOLBOX PROPERTIES

# Screen Plugin and properties

- Object Field Properties Panel

The screenshot displays the DEV STUDIO application interface. At the top, the 'DEV STUDIO' logo is on the left, and the user name 'Pradeep Kannauzia' is on the right. Below the logo, the breadcrumb 'Line Of Business: General Liability' is shown. A 'New' button and a 'View' dropdown are also present. The main area is divided into a left sidebar, a central workspace, and a right sidebar.

**Left Sidebar:** Contains a 'Screens' section with a search bar and 'Go'/'Clear' buttons. Below this is a list of screens: 'Audit Details', 'Policy\_composite\_rating', 'Additional Named Insured', 'Locations', 'Broker', 'General Liability' (highlighted), and 'KY Tax Exemption'. At the bottom, there are expandable sections for 'Rating' and 'Bureau Adoptions'.

**Central Workspace:** Displays the 'General Liability' screen. It has a 'Summary Section' at the top with a toolbar containing 'Save', 'Save And New', 'Cancel', and 'Delete' buttons. Below this is the 'General Liability' form, which includes fields for 'Coverage Type', 'Primary State', 'Rating Plans' (with a value of 'HEADING1'), 'Composite Rating' (checkbox), and 'Audit' (checkbox). A 'KY Tax Information' section at the bottom contains a checkbox for 'Do not apply City or County Taxes?'.

**Right Sidebar:** Features a 'Properties' panel for the selected 'General Liability' object. It shows the 'Field' as 'Coverage Type' and the 'Object' as 'General Liability'. Below this is a table of properties:

API Attribute Name		
Audit Info	MORE INFO	...
Audit Latest Rec Query	MORE INFO	...
Audit Period Query	MORE INFO	...
Auditable		...
Authorized Values	MORE INFO	...
Auto Generate	No	...
Auto Lookup	No	...

The right sidebar also includes a 'TOOLBOX' and 'PROPERTIES' section.

# Screen Plugin and properties

- Toolbox Panel

The screenshot displays the DEV STUDIO application interface. At the top left, the 'DEV STUDIO' logo is visible. The main header shows the current screen being edited: 'Line Of Business: General Liability'. On the right side of the header, the user's name 'Pradeep Kannauzia' and a 'View Tabs' dropdown are present.

The left sidebar contains a 'Screens' panel with a search bar and a list of screens. The 'General Liability' screen is selected and highlighted in light blue. Below the list, there are sections for 'Rating' and 'Bureau Adoptions'.

The main workspace shows the 'General Liability' screen layout. It includes a 'Summary Section' at the top with a toolbar containing 'Save', 'Save And New', 'Cancel', and 'Delete' buttons. Below this is the 'General Liability' section, which contains form fields for 'Coverage Type', 'Primary State', 'Rating Plans' (with a value of 'HEADING1'), 'Composite Rating', and 'Audit'. At the bottom is the 'KY Tax Information' section with a checkbox for 'Do not apply City or County Taxes?'. Each form field has a small circular icon with a 'p' inside, indicating a plugin or property.

On the right side, the 'Tools' panel is open, showing a search bar and a grid of various UI components. The components include 'Heading 1', 'Heading 2', 'Heading 3', 'Label', 'TextField', 'DropDown', 'TextArea', 'Twisty', 'RadioList', 'RadioList(1, N)', 'RadioList(2, N)', 'RadioList(3, N)', 'RadioList(4, N)', 'CheckBox', 'CheckList', and 'CheckList(1, Y)'. The 'TOOLBOX' and 'PROPERTIES' tabs are visible on the far right.

# Create a new Object

- An Object is used to create a screen in Dev Studio. Each object, once created, generates a table in the database by the system automatically.
- A new window with the Object Section is opened to enter this new object and to define the name of the table, along with the other attributes described in next slides.
- Once the object is created, every field created in the object corresponds to a column in the object table.
- These tables and columns for an object are used to store the data for the object and fields during runtime.
- Every object created is linked with the Parent Object through Foreign Key (which gets created when you drag the Object toolbar). The Foreign key shows the Object on the UI.

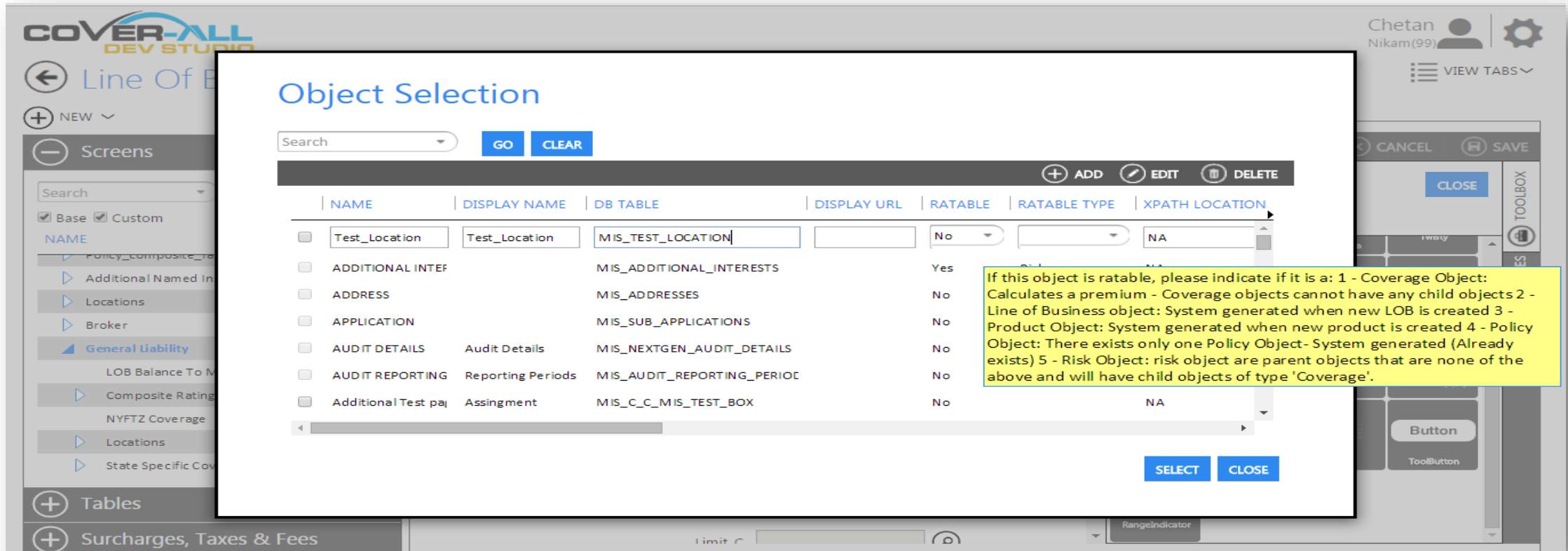
# Create a new Object

- When the Object is reused, only the foreign key changes while the entire screen or objects remains unchanged.
- Object can be one of two types:
  1. **Non Ratable Object:** It's a normal object and ratable property set to "No" and ratable type properties of these object is null. These objects are not use for the rating or premium calculation.
  2. **Ratable Object:** It's an object for which ratable properties set to "YES" and Ratable type properties is defined to "COVERAGE". These objects are participate in rating and used to calculate the coverage or premium of policy. Ratable object's parent must be a ratable object.



# Screen Plugin and properties

- **Creating a new Object :**
  - Object tool is used to create a screen in Dev studio. This object represents table in database. We can use the predefined object or create the new object.
  - TOOLBOX-Object selection



# Screen Plugin and properties

- Toolbox Editor : Toolbox Editor is used to create the object or field using drag and drop function.
- Toolbox Editor provides below Tool
  - OBJECT
  - HEADING1, HEADING 2, HEADING 3, LABEL
  - TEXTFIELD, TEXTAREA
  - DROPDOWN, CHECKBOX, TOOLBUTTON, TWISTY
  - RADIOLIST, CHECKLIST, RANGEINDICATOR
- Confluence Link:
- <https://confluence.majesco.com/display/MPCL/Screens+Plugin#ScreensPlugin-ToolboxEditor>



Toolbox Editor

# Screen Plugin and properties

- **Data Types For Tools(Primitives) :**

- Any tool that is used from the Toolbox has to be associated with a data type. Data Type is nothing but the definition of type of data that is going to be used to store in a field. For Example: “Location Number” field(Text Field) would be associated with a data type of “Number”
- Similarly, every tool in the toolbox editor is associated with some data types. Some are defined by the system and some are user defined.
- While creating a new Object/field user can use existing data type or can create new data type. Preferred is to use existing one.



Datatypes

# Screen Plugin and properties

## User Defined Data Types

GO CLEAR

+ ADD ✎ EDIT 🗑 DELETE

	LABEL	DATA TYPE	NAME	LENGTH	Preview
<input type="checkbox"/>	Rule Number	NUMBER	RISK NUMBER LABEL	10	
<input type="checkbox"/>	Rule Label	STRING	RISK RULE KEY LABEL	10	
<input type="checkbox"/>	Short Label	STRING	SHORT LABEL	1	
<input type="checkbox"/>	Label3	STRING	label3	4000	Label: Label
<input type="checkbox"/>	Listing Options	STRING	listopt	600	
<input type="checkbox"/>	add	STRING	txt_add_99	1	

Include a name to identify this new user defined data type.

SELECT CLOSE

# Properties Editor

- The Properties Editor is used to define the properties of any object or field that is created. This editor can be accessed by navigating to the Properties icon on the Right Panel. Dev Studio groups the properties based on their use and functionality.
- To add/edit the properties of object/field, the user has to select a field and then click on the properties tab on the Editor panel on the right. Here the user can view and set different kind of properties and their value for selected object/field. On the properties panel the field selected and object the field belongs to is shown.
- Some properties are only available either for field or object, while other properties are common for both. Some properties are used as Boolean value of Yes or No, while some require adding of Rules to set the property for the Object/Field.




Properties Editor

# Composite Objects

- An object can compose another object within it.
- This can be configured to reuse existing objects.
- When the Object is reused, only the foreign key changes while the entire screen or objects remains unchanged.
- For e.g. An object by name Insured can have an object Address composed within it. And also an object Producer can have Address object composed within it. This is because both Insured and Producer screens need to have address associated with it. Hence there can be an independent Address object which can be used on multiple objects.
- This is referred as Foreign Key relation.



# Composite Objects

 DEV STUDIO

Pradeep Kannauzia ▾

← Line Of Business: Commercial Auto

View Tabs ▾

+ New ▾

View ▾

\*8071780 ×

Policy ×

− Screens

Go Clear

☒ Base ☒ Custom

NAME	DESCRIPTION
▶ Customer	
▶ Insured	
▶ Policy	
▶ Proposal	
▶ SUBMISSION	
▶ SUBMISSION UN-USE	
▶ TASK	

+ Base Packs

SEARCH

MODIFY SCREEN

Underwriter

Policy\_number

Renewal\_counter

Revision\_number

Commission Reduction

Commission Reduction By

Premium Adjustment Factor

☐ Show Hidden

Insured Information

Agency

Properties

CLOSE

Object: Insured Information

API Attribute Name

Apply Commission Redi

Audit Info MORE INFO ...

Audit Latest Rec Query MORE INFO ...

Audit Period Query MORE INFO ...

Auditable  ...


Auto Generate No  ...

TOOLBOX

PROPERTIES

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 MAJESCO

# Best Practices

- While adding a field in existing object that has child object, collapse the child object to prevent the new field from being added to child object accidentally.
- If creating a new object, ensure ***Fk\_Column\_Name/DB\_column\_name*** length does not exceed 26 characters and it should be always in uppercase without spaces.
- Do not use oracle keyword for Column and table names.
- Save changes/Screen regularly after adding 1 or 2 customization's, avoid saving changes after adding 8-10 customization at a time, at times you may lose the customization you have added.
- You can always delete fields/rules added in the same release without any issue. After install we cannot delete anything so mark those as hidden yes.
- If creating a new coverage code, ensure its length does not exceed 15 characters.
- Need to be careful while adding first field for a non-ratable object to verify its added as a part of the respective object only.
- Column names or table names should follow naming convention.

***Coverage object: MIS\_COV\_<LOBCODE>\_<TABLENAME>***

***Non coverage object: MIS\_<LOB\_CODE>\_<TABLENAME>***



THANK YOU!

