

**Duck Creek Development Playbook**



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# PURPOSE OF THIS DOCUMENT

## Overview

The Duck Creek development Playbook is a document that will serve as a one stop shop for all associates on Duck Creek development team. This document is a living and breathing document and will be updated as need be.

This document acts as a reference material for any questions they may have related to development process. This document will also help users in understanding the standards, best practices, templates about different activities.

## Intended Audience

This document is intended to all the below roles on Duck Creek projects.

1. Developers
2. Leads
3. Managers

# Platform Level Information

The Duck Creek Platform is the technical foundation for all Duck Creek applications and the embodiment of Duck Creek’s architectural and design philosophy. Its capabilities consist of low-code configuration tools, integrations with the insurtech ecosystem, open APIs, and a commitment to keep our software code separate from your IP, which creates future-ready solutions that put you in control of change.

Products available on Duck Creek are as listed below:

1. Policy
2. Billing
3. Claims
4. Rating
5. Industry Content
6. Imburse Payments
7. Data Insights/Clarity
8. Digital Engagement – Producer
9. On Demand
10. Digital Customer Service
11. Distribution Management
12. Reinsurance Management

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# DUCK CREEK DEVELOPMENT PROCESS

## On-Prem Vs Cloud Installation Guidelines

1. **OnDemand Workstation Installation Considerations**

**Prerequisites -**

The following prerequisites are required before running the installer:

1. Verify that you can log in with the credentials provided by your CSM:
2. Ensure you have admin rights on the machine.
3. Ensure you have the latest Duck Creek Platform version available.
4. Verify that the following folders exist:
   * + F:\Octopus\SaaSOpsTentacle\Applications\POC01\SaaSDeploy\{latest}\tools
     + F:\DuckCreek\Policy
     + F:\DuckCreek\Billing
     + F:\DuckCreek\Party
     + F:\DuckCreek\ServerExtract
5. Create backups in F:\Backup for Policy, Billing, Party, and ServerExtract folders, if not previously done.
6. Verify that the SQL database exists on the same machine.
7. Verify that you have access to the following databases:
   * + POC01\_DuckCreek\_Consolidated
     + POC01\_PARTY00\_CFG
8. Create backups in F:\Backup\Database for the databases.
9. Ensure that other logged-in users are signed off from the machine. If not, then sign off the other logged-in users from Task Manager > Users.

**Running the Installer -**

The installation process can begin after the prerequisite steps are completed.

To run the installer:

1. In the F:\DuckCreek\ Ensure the Policy.International.zip installer file is unzipped as the F:\DuckCreek\Policy.International\ directory. (Applicable until Suite 8.0.4 versions only.)
2. Ensure the CountryInstaller.zip installer file is unzipped as the F:\DuckCreek\CountryInstaller\ directory. (Applicable for Policy Active Delivery versions and later.)
3. Copy the NuGet packages into their respective folders. For example, NZPolicyPackage.8.0.4.1.nupkg needs to be copied to the nzpolicypackage folder.
4. In the F:\DuckCreek\Policy.International\ directory, right-click the runinstallswithlog.cmd file and select Run as administrator. (Applicable until Suite 8.0.4 versions only.)
5. CountryInstaller\ directory, right-click the runinstallswithlog.cmd file and select Run as administrator. (Applicable for Policy Active Delivery versions and later.)
6. **On Premise DuckCreek Installation-**

To start with the installation process, you need to have the following installers files with you first-

1. Server
2. Express
3. Transact
4. Forms
5. User Admin
6. Async Queue
7. Author
8. Billing
9. Billing Integration

Kindly refer to the attached document in the appendix section to complete the On-Premises Installation.

## Standard Requirement

**3.2.1 PL 101**

**3.2.1.1 What is PL 101?**

PL 101 is a guideline document used as a baseline for development. It captures all the requirements at a granular level so that this can be referred to during different phases of any project.

**3.2.1.2 Components**

The components of PL101 are-

* *Fields*: This contains the field name and its respective definitions and properties that needs to be implemented.
* *Rating Tables*: It contains the rate tables and the values for each of the tables.
* *Forms*: This contains the description on what form we need to implement and at which scenario and has the properties that needs to be set for that form.
* *Rules:* This section contains the type of rule, e.g. Referral Rule or Decline Rule, the triggering conditions of these rules and the UI location, where these rules will get displayed.
* *Rating Algorithm:* Rating algorithm is the step-by-step breakup of the calculations performed to reach to final premium from input values.
* *Coverages:* Coverages are the basic building block of a product. Coverages contain the limit and deductible description details to be displayed on UI.
* *Tasks*: Tasks are generated to ensure certain action from a user. Tasks tile, description, assignment, completion date, triggering points are the basic information that gets captured in this section.
* *Batches*: Batches are modes of initiating and completing any intended activity without users' intervention. Nature of the batch script, the task it needs to perform are the requirement captured in this section. Automated renew batch is a common example of batch script.

**3.2.1.3 Advantages**

* Increased efficiency
* Detail Information on most granular component
* Helps to reach a common point of agreement among teams.
* Acts as a point of reference in later stages of project and this reduces confusion.
* The sample document (Sample PL101 attached in the appendix section) is referred as a baseline to identify changes.

**3.2.2 ADO & JIRA**

**3.2.2.1 Azure DevOps:**

Azure DevOps is its own set of cloud services that have collaboration tools that work on any platform. It provides you with Agile tools which help in managing your tests, versioning your code with Git, and deploying projects to cross-platform systems.

**Features of Azure DevOps:**

* It provides a dashboard in which projects can be managed.
* It integrates with Git to provide versioning of code.
* Tools provide better code representation.

**3.2.2.2 JIRA:**

JIRA is an Incident Management Tool used for Project Management, Bug Tracking, Issue Tracking and Workflow. JIRA is based on the following three concepts –

* Project
* Issue
* Workflow

**JIRA – Projects:**

A Project contains issues; a JIRA project can be called as a collection of issues.

**Create a New Project**

To create a project, the user should login as a JIRA Service Desk Admin and then Click on Project -> Create Project.

**JIRA – Issues:**

JIRA is a project management tool and uses issues to track all the tasks. An issue helps to track all works that underlie in a project. In real time, every work or task either technical, non-technical, support or any other type of a project in JIRA are logged as an issue.

An issue can be dependent on the organization and requirements:

* Story of a project
* Task of a story
* Sub-task of a story
* A defect or bug can be an issue.
* Helpdesk Ticket can be logged as issue.
* Leave Request

**JIRA – Workflow:**

In JIRA, workflow is used to track the lifecycle of an Issue. Workflow is a record of statuses and transitions of an issue during its lifecycle. A status represents the stage of an issue at a particular point. An issue can be in only one status at a given point of time like Opened, To Do, Done, Closed, Assigned, etc.

A transition is a link between two statuses when an issue moves from one status to another. For an issue to move between two statuses, a transition must exist. In a simple way, a transition is some kind of work done on the issue, while status is the impact of work on that issue.

**Example**

As of now, an issue is created and opened. When the assignee starts working on the issue, the issue moves to the In Progress status. Here, the transition is starting the work, while the status of the issue is now progressive. JIRA workflow has the following stages to track as soon as an issue is created:

* *Open Issue*: After creation, the issue is open and can be assigned to the assignee to start working on it.
* *In Progress Issue*: The assignee has actively started to work on the issue.
* *Resolved Issue*: All sub-tasks and works of that Issue are completed. Now, the issue is waiting to be verified by the reporter. If verification is successful, it will be closed or re-opened, if any further changes are required.
* *Reopened Issue*: This issue was resolved previously, but the resolution was either incorrect or missed a few things or some modifications are required. From Reopened stage, issues are marked either as assigned or resolved.
* *Close Issue*: The issue is considered as finished; resolution is correct as of now. Closed issues can be re-opened later based on the requirement.

## Development Modules and Checklist

**3.3.1 Billing**

**3.3.1.1 Payment Plan Configuration-**

In this there are 6 manuscript that we need to look at for configuring the plans-

1. Carrier Sample Product Base Workflow-

Fields Updated:

* BillingKeys Group à BillClass Field àDefinitions à Option (Defined)

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* BillingKeys Group à AccountPlanCode à Definitions à Option (Defined)

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Tables updated:

* CombinedAccountAndPolicyPlanConfiguration

Graphical user interface, application

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1. Carrier Billing Account Plan Setup Select-

Tables updated:

* PlanSelect- add account plan code and specific code in Value.

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* PlanManuscript- add the specific codes which was mentioned in PlanSelect Table and the manuscript name in value.

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1. Carrier\_Billing Policy Plan Setup Select-

The changes are made only to the 2 tables which come in play while working in billing:

* + 1. Plan Select: This table consists of the Policy Plan Code:
  + This code is given by us at the time of creating a new plan in the workflow.
  + As per the given requirement, we specified the name of the policy plan code as DC1\_ACT\_P11 and DC1\_ACT\_P12.Value: It consists of the Account plan code i.e. - ABC.

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* + 1. Plan Manuscript: This table consists of columns-
       - Account Plan Select:

It contains the account code which we specify at the time of creating a new account plan in the workflow.

* Value:

It consists of the manuscript name i.e. - Carrier\_Billing\_PolicyPlanSetup\_DirectBase\_1\_0\_0\_0

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1. Carrier Billing Account Plan Setup Direct Base

Tables Updated:

BillClassDependencies –

* Account plan codes are added, and values are given to all the columns.

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* According to the requirement, we check for all the columns and fil the data.

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Fields Updated:

* Schedule\_AccountPlan à PlanCode à Definitions à Option (Defined)

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1. Carrier Billing Policy Plan Setup Direct Base

Fields Updated:

* + - * Scheduling\_PolicyPlanà PlanCode à Definitions à Option (Defined)

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Tables Updated:

BillClassDependencies –

* The Policy Plan Code is added to the column i.e. - DC1\_ACT\_P11 and DC1\_ACT\_P12.
* Then the maximum instalments for each policy plan code i.e. – 4 and 2 respectively are added to the column.
* Then the frequency of the instalments is given. i.e. - Quarterly and Half Yearly respectively are added to the column.

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Note: Please refer the table below for the frequency configuration.

|  |  |  |
| --- | --- | --- |
| **Installment** | **Frequency** | |
| Full/Annual installment | Annual |
| Monthly | Monthly |
| Quarterly | Quarterly |
| Half-Yearly | Semiannual |

1. Carrier\_Billing Account and Policy Configuration

* According to the given requirement, we have all the necessary changes in all the manuscript and then lastly, we will make the necessary changes in the Account and Policy Plan Configuration.
* The table in which we need to make the necessary changes is “Valid Account and Policy Plan Configuration”.
* The Policy Plan Code and the Account Plan Code the added as 2 new Columns and Rows to the table and the values in the set to 0 and 1 as per the requirement.

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**3.3.1.2 Event Configuration-**

Billing events are one of the main ways to customize Duck Creek Billing. Events are exits within the C# code that call out to Manuscripts for custom processing. Event handling is a highly recommended configuration option. Event handlers do not usually participate in the underlying base transaction. In other words, events do not occur as part of the transaction that fires the event.

The following are common uses of Billing events:

* Creating an automated letter or form
* Creating or triggering an automated task
* Creating a note
* Firing a miscellaneous ManuScript process
* Writing a value to a database table
* Firing an integration to another backend system

The list of Billing events can be found in the BillingConfig.xml file located in the C:\Program Files\Duck Creek Technologies\Shared directory. The BillingConfig.xml file is structured with the event name, ManuScript ID, and the field where the event is called within the ManuScript. Below is an example of the XML.

<Event name="Billing\_PolicyTerm\_PostConfigChangeEvent" manuscript="Carrier\_Billing\_Events\_Integration\_1\_0\_0\_0" field="PostPolicyConfigChangeEvent.Value" transactions="\*" />

In the above example, the Billing event name is Billing PolicyTerm PostConfigChangeEvent, the event can be found in the Carrier Billing Events Integration ManuScript, and the event is triggered from the PostPolicyConfigEvent.Value field. The transactions parameter is not currently used, and the value must remain an asterisk (\*).

**Tips for Using Billing Events**

The following are tips for using Billing events:

* You can see what data is available in session at the time that event is triggered if you put a <Session.getAllDocumentsRq> request on the ManuScript field triggered by the event and turn on Trace Monitor.
* Use Trace Monitor while performing actions in Express to determine which events are being called.
* The \_EventSourceRequests group can be used to pass information back to C# from the ManuScript.
* To bypass an event from firing, remove the manuscript value or field value in the BillingConfig.xml file.
* To add a connection point for an event that does not have a default ManuScript defined, you must create a ManuScript and then update the BillingConfig.xml file with the appropriate manuscript value and field value for that event.

**3.3.2 TransACT:**

TransACT is a customizable ManuScript template that extends Server to support policy administration processes for any line of business. As the policy administration component of the Duck Creek Platform, TransACT provides standard transactional functions, including endorsements, renewals, cancellations, reinstatements, and audits. TransACT also supports batch processing, scheduled processing, and out-of-sequence processing.

TransACT requires the following additional Platform components and custom modules:

* **Server**— Makes calls between Express and ManuScript. Express uses Server for rating and page display.
* **Author** — Facilitates ManuScript creation and editing.

Out of the box, the TransACT interface allows end-users to initiate policy administration and transaction processing through a single page in Express. This page allows users to:

* View summary information for a policy
* View prior transactions on a policy.
* Initiate additional transactions.
* Manually download transformed policy XML for the latest transaction

**Adding a Product to TransACTCatalog.xml**

To add a product to the TransACTCatalog.xml file:

1. In the customer file package, in the Shared directory, open the TransACTCatalog.xml file.
2. Locate the keyValues attribute, and then enter the lines of business used in your ManuScript catalog for the products you want to connect. Do one of the following:
   * Use an asterisk (\*) if all products share the same TransACTConfig.xml file.
   * Use a comma-separated list if multiple products share the same fill.

Out of the box, TransACT contains rules for:

* Contexts
* Transaction statuses
* Transaction states
* Policy statuses

In addition, TransACT contains several out-of-the-box rules for other parts of TransACT, including rules for effective dates, reason codes, transaction processing, and out-of-sequence transactions.

**3.3.3 Integration:**

Any in house or third-party Integration can be done via creating a custom object or using oob business object like send.postRq or Send.httpRq.

Below are some example snapshots:

**Send.postRq:**

* Facilitates integration with home-grown web services.
* Facilitates integration with SOAP-compliant web services.

**Sample Request:**

<Send.postRq URL="http://www.example.org/stock/StockSvc.asmx" SOAPAction="GetStockPrice">

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

<soap:Header>

</soap:Header>

<soap:Body>

<m:GetStockPrice xmlns:m="http://www.example.org/stock">

<m:StockName>IBM</m:StockName>

</m:GetStockPrice>

</soap:Body>

</soap:Envelope>

</Send.postRq>

**Sample Response:**

<Send.postRs status="success">

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

<soap:Header>

</soap:Header>

<soap:Body>

<m:GetStockPriceResponse xmlns:m="http://www.example.org/stock">

<m:StockPrice>161.30</m:StockPrice>

</m:GetStockPriceResponse>

</soap:Body>

</soap:Envelope>

</Send.postRs>

**Send.httpRq:**

* Use this request when communicating with RESTful services or any HTTP call that isn't SOAP based. For SOAP services, use the Send.postRq.

**Sample Request:**

<Send.httpRq URL="http://localhost:8080/duckcreek/api/v1/attachments" verb="GET">

<credentials user="admin" pass="adminPass" />

<query>

<parameter name="objectId" value="25" />

<parameter name="objectType" value="PTY" />

</query>

</Send.httpRq>

**Sample Response:**

<Send.httpRs status="success">

<status code="200" message="OK" />

<headers>

<header name="Vary" value="Content-type" />

<header name="Cache-Control" value="private" />

<header name="Date" value="Mon, 19 Dec 2016 21:34:08 GMT" />

<header name="Server" value="Microsoft-IIS/7.5" />

<header name="X-AspNet-Version" value="4.0.30319" />

<header name="X-Powered-By" value="ASP.NET" />

</headers>

<body />

<requestInfo verb="GET" url="http://localhost:8080/duckcreek/api/v1/attachments?objectId=25&objectType=PTY" />

</Send.httpRs>

**3.3.4 Batch**

**Overview**

A batch file or batch job is a collection, or a list, of commands that are processed in sequence often without requiring user input or intervention. Batch files are often used to help load programs, run multiple processes at a time, and perform common or repetitive tasks.

With the help of util we can write a batch script from scratch or use an existing script to implement a new requirement.

OOB you will find .bat file and batch script in xml format inside DuckCreek\Batchscripts folder.

A screenshot of a computer

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The .bat file will be scheduled via window scheduler, which will be invoked the corresponding batch script. In the above snapshot the AutomatedEndorse.bat will execute the BatchAutomatedEndorse.xml

**Sample xml:**

<server postURL="http://localhost/DuckCreek/dctserver.aspx">

<requests>

<Session.loginRq userName="admin" password="admin" />

<BatchProcess.processRq>

<! -- Automated Endorse Process -->

<Info>

<ScriptName name="BatchScript\_AutomatedEndorse" id="BatchScript\_AutomatedEndorse" />

<Output logType="ALL" append="true" />

<Email use="" from="" to="" />

</Info>

<Query>

<Option label="Advanced SQL query">

<Sql db="prompt" dsn="ExampleData\_29\_165" uid="" pwd="">{0}</Sql>

<Layout direction="down" captions="above" vspace="4">

<Instruction>Specify the SQL to use below.</Instruction>

<Field id="0" label="SQL:" value="select QuoteID, HistoryID, Type, TransactionStatus, PolicyNumber from History with(nolock) WHERE state='committed' and Type NOT IN ( 'Cancel', 'NonRenew', 'CancelPending' ) AND DATEDIFF(D, CONVERT(DATE, GETDATE()),TransactionEffectiveDate) >=60;" width="full" height="80" multiline="false" />

</Layout>

</Option>

<SessionLoadType label="Load Policy">

<OnlineData.loadPolicyRq policyID="{0}" />

<OnlineData.loadHistoryRq historyID="{1}" canSave="1" />

</SessionLoadType>

</Query>

<PreExecute>

<requests />

</PreExecute>

<Execute>

<requests>

<Manuscript.getValueRq manuscript="Carrier\_AutomatedProcess\_Endorse" field="data. RunProcess" />

</requests>

</Execute>

<PostExecute>

<requests />

</PostExecute>

</BatchProcess.processRq>

<Session.closeRq />

</requests>

</server>

Sample.bat file:

@echo off

::%1 TestAdmin

::%2 Password

::%3 "http://localhost:8080/Duckcreek/dctserver.aspx"

set uid="admin"

CD /d "%~dp0"

"..\Util\PostRequest.exe" /s:"http://localhost:9090/Duckcreek/dctserver.aspx" /u:"%uid%" /p:"admin" /o /c /rf:"BatchAutomatedEndorse.xml"

echo \*\*\*\*\*\*\*\* DONE \*\*\*\*\*\*\*\*

@echo on

**3.3.5 Underwriting Rules:**

* Underwriting refers to the process that an experienced insurance professional (underwriter) follows to assess the risk on a policy.
* The underwriter then looks at specific details about the risk and determines eligibility based on all details. If the risk is too great and cannot be priced into one of the carrier's policy programs, the policy may be denied.

**Evaluation of risk during quote against the UW Rules:**

* The required information has been entered and validated so that the risk has determined to be acceptable, and a price is returned.
* The required information has been entered and validated, but the rules that have been configured determine that an underwriter review (or referral) is necessary.  
  For example, the driving record has two speeding tickets in the last year.
* The required information has been entered and validated but rules that have been configured determine that the risk should be declined.  
  For example, the driving record has a driving under the influence infraction.

**Implementation:**

* PolicyPrivate.IsEligible: Use to map product specific decline rules.
* PolicyPrivate.IsBindable: Use to map product specific referral rules.
* Default value for the above fields are true. When any product specific rules run then the value gets set to false.
* data.SubmissionExecute field on Submission/Pricing page executes the above two fields.
* PolicyPrivate.IsEligible PolicyWorkflowDataInput.IsEligible
* PolicyPrivate.IsBindable PolicyWorkflowDataInput.IsBindable

**After being referred/declined:**

* After policy gets referred, underwriter assess the risk and approved/decline the policy for further processing.
* For decline policy it gets decline right away.
* In some cases, a task gets created to notify the underwriter about policy being referred/declined.
* Types of Referral rules: Hard Referral, Soft Referral(in some scenario)

**Individual Rule Implementation:**

We can implement rules in many ways. The most common way of implementation via misc rule.

We define the condition and the outcome along with the message. Refer below snapshot.

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**3.3.6 Task:**

In Duck creek task is associated with rules and other functionalities where new task will be assigned and serviced accordingly.

We have OOB request which helps to create a task.

**Sample Request:**

<Task.addRq>

<TaskRecord>

<ObjectId>276</ObjectId>

<ObjectTypeCode>POL</ObjectTypeCode>

<EntityId>1</EntityId>

<AssignedUserId>1</AssignedUserId>

<DueDate>1/1/2008</DueDate>

<TaskTitle>Order MVR</TaskTitle>

<TaskTypeCode>GEN</TaskTypeCode>

<TaskExtendedData>

<Description>Order an MVR report.</Description>

</TaskExtendedData>

</TaskRecord>

</Task.addRq>

**Sample Response:**

<Task.addRs status="success">

<TaskRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<TaskId>9</TaskId>

<TaskLockingTS>AAAAAAAOjvA=</TaskLockingTS>

<ResponseInfo>

<ReturnCode>0</ReturnCode>

<NotificationResponse />

</ResponseInfo>

</TaskRecord>

</Task.addRs>

**3.3.7 Rating:**

OOB duck creek provides written premium configuration at field level. This controls how the written, change and full term premiums are calculated for each individual coverage during the rating cycle.

This method of processing written premiums has several advantages, including:

* Simplified ManuScript development
* The ability to easily mark a coverage as Flat, Fully Earned, or both
* The ability for end-users to calculate taxes and surcharges on New Business, Endorsements, and Cancellation transactions.
* Accurate calculation of the minimum written premium for a coverage
* Premiums and Prorating
* Flat premiums are not prorated if added mid-term, but if the policy is canceled then the flat amount will get prorated.
* Fully Earned premiums can be prorated when being added mid-term, but if the policy is canceled then the fully earned amount will not get prorated (unless canceling back to the inception date of the policy).
* Flat/Fully Earned premiums will never prorate (unless canceling back to the inception date of the policy).
* Not Flat/Not Fully Earned premiums will prorate with mid-term changes and at cancellation.

**How It Works**

Written and change fields now exist for every coverage. Total written and total change fields were created at the data, policy, line, risk group, and some line of business-specific levels. In the image below a value has been entered for Term Premium. This value is referencing the field that calculates the full term premium.

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In the Rating Control ManuScripts, the data.TotalResults field now recieves its value from the new data.TotalPremiumWritten field (see the image below). The data.TotalPremiumWritten field is an iterator with subtotals defined, meaning this field iterates once, but sets values on multiple fields. Each of the fields defined in the Field in Iteration section set the value of the corresponding subtotal field. The Subtotal fields calculate the Written, Change, and Full Term:

* Premium
* Pure Premium
* Taxes and Surcharges.

Following the rating logic starting from this iterator, you will find that Rating is calculating all of the Written values and setting the values of the Change and Full Term premiums

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## Development Tools

**3.4.1 Example Author**

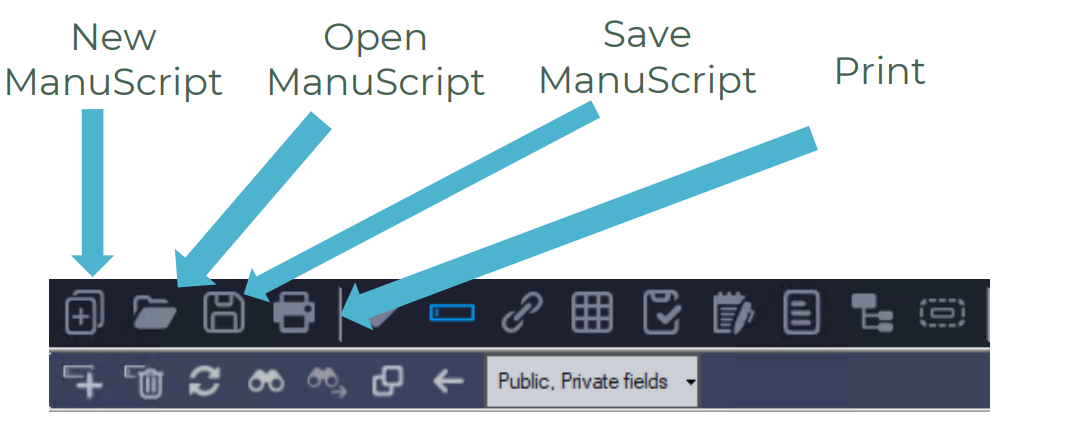
**Example Author:** EXAMPLE Author defines all features of an insurance product: rates, rules, algorithms, documentation, screen flow, and policy transactions. In EXAMPLE Author, you create, edit, and test Manuscripts, XML files used to describe products, and define how those products process the rules and values of data.

**The EXAMPLE Author application is divided into several main views:**

* Fields View — Defines fields, groups, and their relationships.
* Tables View — Defines data tables.
* Page Designer — Creates and edits input screens.
* Data Tester — Tests the execution of the ManuScript and creates and edits data documents associated with the active ManuScript.
* Forms Mapper — creates and edits forms.

Tabs and Buttons Overview:

1. You will see these two bars when working in Author.
2. Each icon and button does a different function. We will go over specific icons in more detail later in this course.



Tabs & Buttons Overview:

A screenshot of a computer

Description automatically generated

**Icons in Author:**

1. We will go over the main icons you will be using in Author, specifically where you can access different “views” of the ManuScript.

A screenshot of a computer

Description automatically generated

**3.4.2 Example Express:** EXAMPLE Express is an application client of the EXAMPLE Server and requires the EXAMPLE Server to use database or Windows authentication.

1. Example Express is a preconfigured web server that hosts the entire policy rating system. It consists of Internet Information Server (IIS) + .NET framework + Example Express.Built on the Microsoft .NET Framework, EXAMPLE Express can also take advantage of the new security features this framework provides.

**3.4.2.1 Express 2.0:**

1. Below is the UI of the Express 2

A screenshot of a computer

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1. Express 2 consists of page and pageset

A screenshot of a computer

Description automatically generated

**3.4.2.2 Express 3.0:**

1. Below is the UI of the Express 3

A screenshot of a computer

Description automatically generated

1. Express 3 consists of the views and model collections.

A screenshot of a computer

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**3.4.3 Forms Engine**

**Forms Engine:**

Forms is a document which specifies the coverage that apply & that limits, and premium charged or any other details that apply to the policy. According to the product and coverage selected forms will reflect on the application.

**Configuration of Forms:**

Basic Configuration of Forms-

1. Add form (Static and Dynamic) by using DC Author Manuscript.
2. Assign attachment rule (Hide-Show rule/State Specific rule) to the form.
3. Understanding the Requirement and Creating the source Document (If Not Found).
4. Upload the source document by using sub-form tab.
5. Implement business logic for Merge Fields for Dynamic Form.
6. Mapping the merge field with field condition.

A screenshot of a computer

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1. Checking the Form alignment after adding to the Manuscript.
2. Create Print Job according to the transaction.
3. Mapping the form in the print Job according to the transaction.

>> Go through Forms Mapper >>Edit >>> Manage print Job from Form Manuscript.

>> Set the print job condition (if required) and Select Document Type like .PDF or MSWord whichever Required.

For Calling Form Manuscript InitPrintJob Rq is used.

# DEVELOPMENT QUALITY PROCESS AND CHECKLIST

## Coding Best Practices

**Manuscript General Guidelines**

* Manuscript ID Naming Convention: CarrierName\_LOB\_Type\_ST\_v\_v\_v\_v
* CarrierName is normally a company code of some sort such as "DCT". LOB is the Line of Business code used for the product. Type is the primary purpose of the Manuscript. Common Types are Pages, Data, Tables, or Forms. ST is the State or Province code that the Manuscript applies to. Manuscripts that are not specific to a State or Province should use the appropriate country or region abbreviation. The v\_v\_v\_v value is used for version numbers, allowing an easy way to identify newer versions of the same product.  Example:  DCT\_PersonalAuto\_Forms\_MO\_3\_0\_0\_0.
* ManuScript Caption naming convention:  CarrierName LOB Type ST v.v.v.v
* CarrierName is normally a company code of some sort such as "DCT". LOB is the Line of Business code used for the product. Type is the primary purpose of the Manuscript. Common Types are Pages, Data, Tables, or Forms.  ST is the State or Province code that the Manuscript applies to. Manuscripts that are not specific to a State or Province should use the appropriate country or region abbreviation. The v.v.v.v value is used for version numbers, allowing an easy way to identify newer versions of the same product.Example: DCT PersonalAuto Forms MO 3.0.0.0
* The root group for a product Manuscript should be data: A Manuscript must have a root group. By standard, this group should be named data for product Manuscripts.
* Never code a URL, file path, or DSN into a Manuscript field.  Instead, create a new key in the Server.config file to hold this information. Information that can vary by environment should be entered into an environment specific file such as the Server.config file in the Shared folder. Information in the Server.config can be accessed either using the Settings API object, or by using Runtime Replacement Tokens in requests.
* Use field references or tables rather than hard-coding values into fields. If the same value (example: format mask, max length, etc.) is used more than once, create a reference field. For any business values or applicability rules that define product, use tables and lookup the data. For environment variables, setup values within Server.config and then do a lookup.

**Groups**

* A Public group must contain three Private groups named Input, Output, and Private: Append the word Input, Output, or Private to the name of the parent group when creating these private subgroups. The Input group is used to hold public fields to which a user or external system will supply values. The Output group is used to hold public fields that have system generated values such as Premiums. The Private group is used to hold all private fields.
* Group names should capitalize the first letter of each word. (Ex. NonOwnedAuto)
* A Coverage group must have a path in the following format: coverage[Type="NonOwnedAuto"].
* A Line group must have a path in the following format: Line[Type="Liability"].

**Rating And Coverages**

* Use default of zero for an additive factor: Additive factor should default to 0 so that if the factor does not apply then it will not impact the coverage premium.
* Use default of one for a multiplicative factor: Multiplicative factor should default to 1 so that if the factor does not apply then it will not impact the coverage premium.
* Check coverage indicator before trigger going to algorithm: Validate if coverage indicator is true then calculation should be done for coverage else trigger should not go to algorithm. Coverage groups should have a field named Indicator. The indicator field is used to show that the coverage applies, regardless of what the Premium for the coverage may compute to.  Downstream systems can check the indicator value when trying to determine what is covered by the policy.
* To start on rating coverage, create group structure for coverage in LOB Data Manuscript: Whenever we get new rating coverage development, we have to create one public group for coverage (Ex. NonOwnedAutoCoverage) and its has three private groups which are CoverageInput(Ex. NonOwnedAutoCoverageInput), CoverageOutput(Ex. NonOwnedAutoCoverageOutput), CoveragePrivate(NonOwnedAutoCoveragePrivate) in LOB Data manuscript. Do calculation/Algorithm, logic in LOB Rating/Rating Control Manuscript
* Best practice to do Policy/Line level coverages in Rating control Manuscript and Risk level coverages in Rating Manuscript coverages: Large Manuscript take up more processing time during design time in Author. This is the reason we separated rating coverages into two manuscript and mainly this is for Commercial LOB’s, For Personal Line, we don’t have that much rating coverages as compared to commercial line. So, we have only Rating Manuscript for Personal Line.

**Inheritance**

* Avoid creating duplicate logic in multiple Manuscripts: Create a specific Manuscript to contain logic for a particular domain and use external calls to execute logic from other Manuscripts as needed. (example: integration request field)
* Avoid overriding inheritance on groups, fields, or pages when possible: It is better to modify the definitions on groups, fields or pages where they inherit from. This leads to a smaller code base, easier code merging in source control and easier code analysis during upgrades or refactoring.

**Field**

* Avoid using // in an Advanced Query XPath expression. Advanced Query is a performance enhancement, but usage of // detracts from performance.
* Use Advanced Query for iterator fields when all fields evaluated in the restriction expression are Public and already calculated. Advanced Query will perform much faster than using Restrict to Iterations Where but can only be used if all parts of the expression already exist in the session. The Advanced Query will not execute any fields; only check what currently already exists.
* Iterator fields should be created in the parent of the group being iterated through. Current Iteration iterator fields are an exception.  Current Iteration iterator fields must live inside the group being iterated through.
* Do not use abbreviations for field names unless it is a well-known industry abbreviation.
* Field names should be descriptive of the data or function of the field. Ex. VINIntegrationExecute would initiate an integration call to a VIN service.
* Field names should capitalize the first letter of each word.
* Field names should avoid repeating the parent group's name. Example: Instead of naming a field DwellingInput.DwellingLimit, the field should be named DwellingInput.Limit.
* Yes/No fields should always list No first, then Yes.
* For numeric fields with Defined Options, the option values must be strictly numeric. Formatting such as commas and currency characters must be entered in the option captions.
* For fields with Defined Options, the option values must match the Data Type of the overall field.
* For Select fields, always supply an "If no match" value. If we don’t provide no match value, then system throw error for such scenario.
* If you frequently use the same conditional phrase in several places, add a Boolean field, descriptively named, that checks the condition. That field can then be reused as a simple field reference to return the result of the condition. This practice allows a single point of change if the parameter value of the condition needs to be modified instead of tracking down every field that was using that value in a condition. This technique should also be used for fields with defined options that will be checked frequently.
* Avoid the use of Always Execute. It has a high-performance impact: Fields that must calculate more than once within an iteration must be set to ‘always execute’. This functionality should be used only as a last resort. This has high performance impacts. Often it can be avoided. Consult with a project lead first for guidance before using ‘always execute’, there could be other alternative methods in the configuration.
* Always use the existing True and False fields when comparing Boolean values.
* An Indicator field's Path must match what is defined in the TransACTConfig file, which by default is Indicator. This value is located at TransActInfo/Premium/IndicatorPath in the TransACTConfig file.
* Indicator fields must be Public and Boolean.

**Forms**

* Add Groups to a form or sub-form in hierarchical order. Example:  first Data, then Policy, then Line.

**Pages**

* Minimize the use of Compute Value.
* Avoid referencing Private fields on a page.
* Buttons that cause policy actions (Add/Delete) must be disabled or hidden when the policy is not editable.

**Table**

* Store all items which may change frequently (such as Rates and Factors) in Tables rather than coded directly into fields.
* The Data Type for a Key must be compatible with the Key Values.

## Code Review Process and Checklist

## 4.2.1 Code Review Process

* Reviewer will get allocate.
* Validate all code review checklist in code.
* Feedback and comments.
* Review revised changes after correcting code based on feedback.
* Approved.

## 4.2.2 Code Review Checklist

Attached to the appendix section of this document.

## Unit Testing Guidelines

**What is Unit Testing?**

Unit testing is a software development process in which the smallest testable parts of an application, called units, are individually scrutinized for proper operation.

Below are some unit testing guidelines a developer should follow:

* Test code for positive scenarios
* Test code for negative scenarios
* Test code for Conversion policies as well
* Check if rating calculation fields are created under private group.
* Check the scope of requirements in PL101 and see if coded for all applicable products.
* Perform extra transactions on policy apart from the transaction on which the issue is reported and fixed, to make sure next transactions are performed without any issue.

## Unit Testing Review Process and Checklist

**What is Unit Testing review process?**

In software testing, a review is a process of examining a software product or component by a group of individuals to detect defects, errors, or vulnerabilities. The primary goal of reviews is to identify and fix issues in the early stages of the software development life cycle to save time and cost.

Unit Testing review checklist has been added in the appendix section of this document.

# DEBUGGING TOOLS

## Data Tester

**5.1.1 Introduction to Data Tester:**

Data Tester allows users to enter raw data into Field Data, select from a dropdown list, or to enter or choose a Boolean value.

1. Copy the session id from the express of the policy for which needs to be tested.

![A black text on a white background

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFRlc3REQ1VzZXIyNTVfMDIAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAM4MAAAkpIAAgAAAAM4MAAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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1. To load the session id in the author click edit->load session id.

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFRlc3REQ1VzZXIyNTVfMDIAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAMxMgAAkpIAAgAAAAMxMgAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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1. After loading the session, copy the field id that need to be tested. Here data. totalresult is used for the testing.
2. Press Ctrl+D and paste the field id that is copied and click ok.

![A close-up of a computer screen

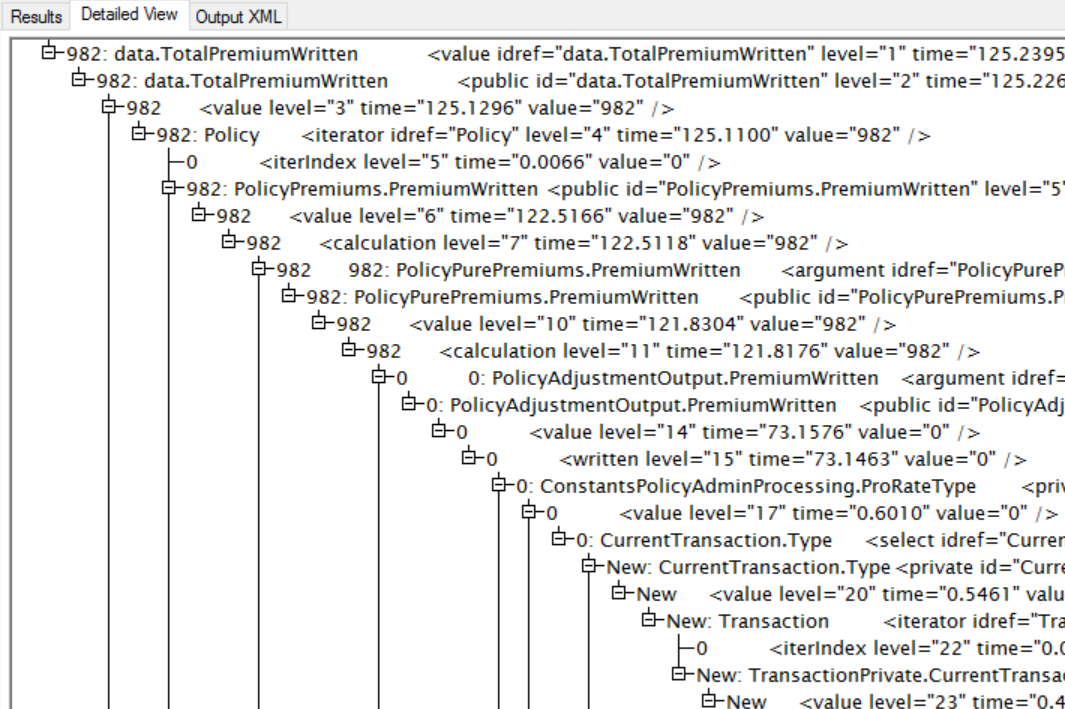
Description automatically 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1. The field executes and the results can be seen in the three different tabs shown below.

![A screenshot of a computer

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFRlc3REQ1VzZXIyNTVfMDIAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAMzMwAAkpIAAgAAAAMzMwAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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8Af23/APjlTb3eXyS+4rrfzb+8pfD2z1fSpNYe2tNVi0cKXs7XVyxuDIB0yxJ2kYHWm+JTr3jL4agX3h6a1vWvlDWW0uSit97BHTFX/wDhYPiL/omviD/v7b//AByj/hYPiL/omviD/v7b/wDxynL3t/L8AWjujpdM0Ow0zRwthplrZzNbgP5ECoWO3vgc1yng3w3fH4cajpOoW0lrPcGRVWUbTyuAam/4WD4i/wCia+IP+/tv/wDHKP8AhYPiL/omviD/AL+2/wD8cpSXM3fqrfjcI+7a3R3OJ8L+B9M06XTrDX/D/iyS+s51CzRXE0lmCp+V+WAA79OK7jRtIvrf4na5eyWkyWk0CrFMy/K52qMA/hTf+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKq7bTfn+KsKy29PwdyppmianF4D8S2kljMtxczytDGV+aQFAAQKzv+Ee1f+w/AUX9nXHmWPlfal2cw4253enQ1uf8ACwfEX/RNfEH/AH9t/wD45R/wsHxF/wBE18Qf9/bf/wCOUlpb/t3/AMlBq6t/i/8AJihdjVvDvxM1PUV0S+1C21G3Ahks4jIqsAow5/h6H1rG07w/4hk+Gmv29/pEsOoXWoiVbdAW3LlOV9RxXUf8LB8Rf9E18Qf9/bf/AOOUf8LB8Rf9E18Qf9/bf/45U8q5OXyt+Nyr+8ped/wsM1vR9QnsvCaw2cztazQmcBf9WAVzn0p15pGoP8YhqKWcxs/7Jki88L8u8upC59eKX/hYPiL/AKJr4g/7+2//AMco/wCFg+Iv+ia+IP8Av7b/APxyrbu2/Nv71YhRtG3kl9zuR/DTwlBYaI8ur6HBDf8A2hmEk9svmY9ckZq1DpV8vxkuNSNrKLJrNUE+35S2Omah/wCFg+Iv+ia+IP8Av7b/APxyj/hYPiL/AKJr4g/7+2//AMcpdU+3+Vinqn5/53GJoN/P8UNYuZLaVLO4sTElxtwpb5eAfwrE0ufXfDvgebwe/hvUbm8RWtobqG3LW7q3G4v26nt2re/4WD4i/wCia+IP+/tv/wDHKP8AhYPiL/omviD/AL+2/wD8cqeX3eXp/wAFv9WO+t/O/wCFjI/4RDVNLfwVapbyXH9njFzJGCyxn5e/pwa9Urgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKu7d/Vv7ybflb8/wDM72iuC/4WD4i/6Jr4g/7+2/8A8co/4WD4i/6Jr4g/7+2//wAcpDO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9orgv+Fg+Iv8AomviD/v7b/8Axyj/AIWD4i/6Jr4g/wC/tv8A/HKAO9orgv8AhYPiL/omviD/AL+2/wD8co/4WD4i/wCia+IP+/tv/wDHKAO9ridB/wCSx+Lf+vOx/wDQXqD/AIWD4i/6Jr4g/wC/tv8A/HKTwR/bGoeOvEWu6roF5osN5BaxQx3bIWYoGDH5GI7igDvqKKKACiiigAooooAKKKKACiiigAooooAzof8Aj/j/AN1qi8Uf8ivqH/XE1LD/AMf8f+61ReKP+RX1D/riaAK3gb/kR9K/64f1Nb9YHgb/AJEfSv8Arh/U1v0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZ0P/AB/x/wC61ReKP+RX1D/rialh/wCP+P8A3WqLxR/yK+of9cTQBW8Df8iPpX/XD+prfrA8Df8AIj6V/wBcP6mt+gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDOh/4/4/8AdaovFH/Ir6h/1xNSw/8AH/H/ALrVF4o/5FfUP+uJoAreBv8AkR9K/wCuH9TW/WB4G/5EfSv+uH9TW/QAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBnQ/8f8f+61ReKP8AkV9Q/wCuJoooAreBv+RH0r/rh/U1v0UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/Z)

1. The detailed view can also be seen as shown in the image below.



1. The xml structure can be seen in the output xml tab as shown in the image below.



## Trace Monitor

**5.2.1 What is Trace Monitor?**

Trace Monitor is a standalone application in DCT Util folder.

Trace Monitor shows what does the DuckCreek Server do while performing a task. Key observations we can make through Trace Monitor are -

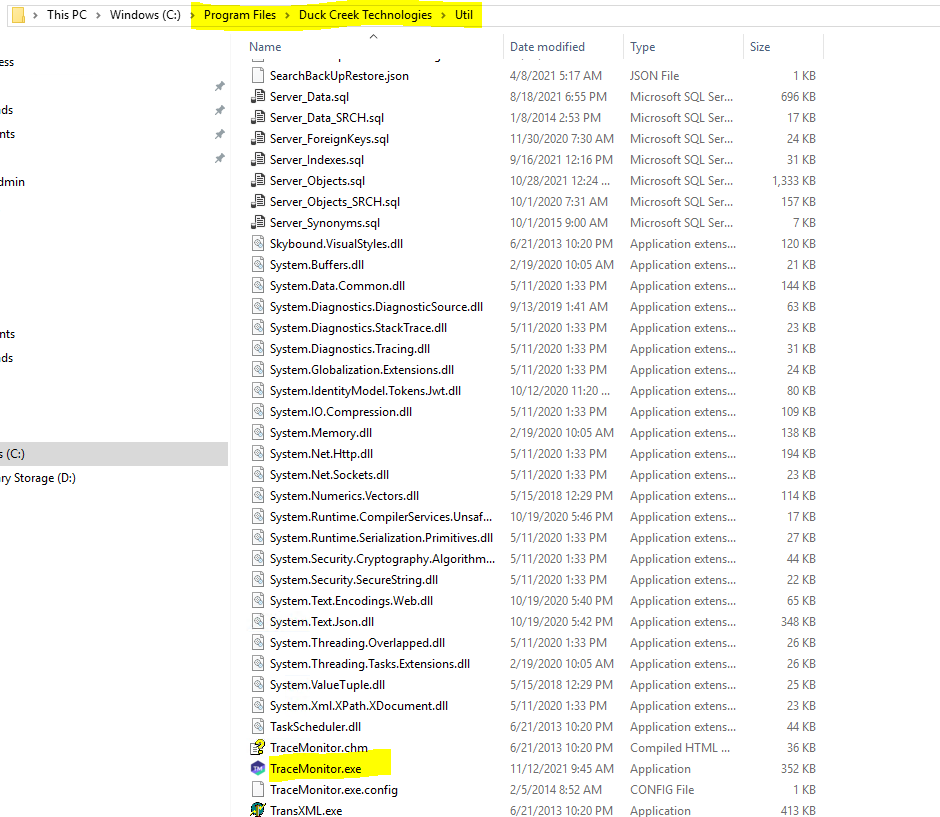
A) List of Requests triggered for a particular function

B) Responses from server corresponding to requests triggered

C) Messages/ Notifications of the events triggered

**5.2.2 Start Trace Monitor**

Location Path: \\Program Files\Duck Creek Technologies\Util\TraceMonitor.exe



Click on the TraceMonitor.exe file and below screen will open.

A screenshot of a computer

Description automatically generated

On File menu Click on ‘Open Live Connection’ option. If any trace file is saved earlier, then click on ‘Open Log File’.

A screen shot of a computer

Description automatically generated

Enter appropriate username and password depending upon server and click ‘OK’

A screenshot of a computer

Description automatically generated

**5.2.3 Taking Trace of a particular functionality**

Once Login is completed, on the Live Connection Setup screen, select the options from Application List depending on the type of information we need from trace.

A screenshot of a computer

Description automatically generated

Once, Applications are selected from the list on the left, click on the ’Add to Monitor List’ and the targeted applications are selected.

A computer screen shot of a computer

Description automatically generated

If the need is to monitor a particular session, then select the checkbox ‘Monitor selected sessions’ and select a Session from the list.

A screenshot of a computer

Description automatically generated

Click on ‘Start Monitor’ button to capture Server Request and responses associated to the action performed in Express.

A screenshot of a computer

Description automatically generated

**5.2.4 Interpret Results**

Once Server Monitoring is started one can observe a screen as below. The result generally consists of Blue lines and Green Lines. The Blue lines can provide us further information on the trace Process.

A screenshot of a computer

Description automatically generated

In some cases, lines printed in red and yellow colour are also noticed. Red signifies an error in the process and yellow represents warnings.

A screenshot of a computer

Description automatically generated

Once the action is completed from the Express wait for some time and then Close the Trace from the below Option.A screenshot of a computer

Description automatically generated

The Output of a Trace is an XML file**. So, the result can be viewed in hierarchical format by pressing ‘F6’ function button.**

A screenshot of a computer

Description automatically generated

**5.2.5. Save and Troubleshoot**

Save trace file from the below option under file menu. Also saved traces can be loaded to trace monitor for investigation.

A screenshot of a computer

Description automatically generated

There are times when Trace Monitor might throw some error message prompting it cannot connect to the server. To resolve this problem, the Trace.Config file needs to be looked at followed by DCT reset.

Location of Trace.Config: \\Program Files\Duck Creek Technologies\Shared\Trace.Config

A screenshot of a computer

Description automatically generated

## Example Util

**5.3.1 Introduction to Util Application:**

The EXAMPLE Utility Center allows you to manage the Platform using a variety of utilities.

1. View and edit XML details.
2. Use EXAMPLE Debugger to view and debug response and request logs generated by the Server.
3. Use an API to create and post XML requests to a specified Web server using HTTP.
4. Select and compare TSV Debug files.
5. View ManuScripts.
6. View configuration settings for Portfolio, TransACT, or Billing.
7. Manage the shred queue of the Server using the Data Mart Utility.
8. Generate and execute script files to renew or delete large quantities of policies.
9. Clear the ManuScripts cached on the Server.
10. Define integrations with third-party Web services.

**5.3.2 Opening the Utility Center**

To open the Utility Center:

1. In the Duck Creek root Util directory (C:\Program Files\Duck Creek Technologies\Util\), double-click ExampleUtil.exe.
2. The EXAMPLE Utility Centre login dialog box appears.

Enter your username.

Click the appropriate server.

Enter your password, and then click OK.

A screenshot of a computer

Description automatically generated

**5.3.3 Tools Menu:**

The EXAMPLE Utility Center Tools menu includes the following options

A screenshot of a computer

Description automatically generated

**Available Utilities:**

These utilities are available in the EXAMPLE Utility Center:

* **EXAMPLE Debugger** — View the request and response logs created by the Server.
* **Post Request** — Post requests and view responses for a specified Server.
* **TSV Debugger** — Log debug information in a TSV (Tilda-Separated Values) file.
* **TSV Viewer** — View and compare multiple TSV files simultaneously.
* **Manuscript List** — View active Manuscripts.
* **Configuration Inspector** — Inspect configuration settings for Portfolio, TransACT, or Billing.
* **Data Mart Management Utility** — Manage the Server Platform shred queue.
* **Batch Script Editor (Basic)** — Set up and run batch scripts for policies or messages.
* **Batch Script Editor (Extended)** — Set up and run extended batch scripts.
* **Integration Definition Manager** — Create and manage definitions for integrations with third-party Web services.
* **Broker Refresh** — Clear the cached Manuscripts on the Server.
* **Bulk Manuscript Installer** — Install Duck Creek Templates .mif files automatically.

**5.3.4 Example Debugger:**

The EXAMPLE Debugger utility configures the debug logging options and displays the resulting request and response logs created by Server.

1. Load the specific session required.
2. Click on the search and then click ok.
3. The debugger opens the xml of the session in the form of XML for the purpose of debugging.

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**5.3.5 Post Request Utility:**

The Post Request utility is used to post requests and view responses for a specified Server. The Post Request Utility contains the following modes.

**Tabbed** - Allows you to run multiple requests without launching multiple instances of the EXAMPLE Utility. This is the default view.

**Classic** - Displays a non-tabbed view.

**5.3.5.1 Posting a Request:**

You can post single or multiple requests from a group of requests.

To post a single request:

1. Select the request.
2. Click HTTP Post or press F5.

To post multiple requests:

1. Select all the requests you want to run.
2. Click HTTP Post or press F5.

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# APPENDIX

## Duck Creek Solution Center

Duck Creek Solution Center provides technical as well as functional documentation across all the Duck Creek products. It encompasses the below:

* Product Overview
* Product deep level details
* Content exchange – OOB accelerators, utilities
* Release Notes

To log in to Solution Center, create an account using ValueMomentum’s email id.

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URL : [Home - Duck Creek Solution Center](https://solutioncenter.duckcreek.com/)

## Duck Creek University

The Duck Creek University provides access to various functional and minimal technical courses across the Duck Creek products. The portal also provides badges as the progress on courses are made.

URL : [Home - SumTotal](https://duckcreek.sumtotal.host/rcore/c/dash/home/AdminHomeBetaSignup?isDeepLink=1)

Access needs to be requested to the Duck Creek Practice Team

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## Duck Creek Centre of Excellence

The Duck Creek CoE is all about Collaboration, solving problems, building assets & accelerators and up-skilling, cross-skilling. The CoE is globally distributed. As a part of this CoE, two of the most important initiatives are executed:

1. **The CoP meetup** – All about knowing new joiners who joined the Duck Creek CoP, solution highlights from accounts, new ideas, implementation, latest trends, and happenings from the Duck Creek world with a leadership talk included.
2. **Dev Caucus** – This initiative is designed to have all technical leads, architects across the Duck Creek projects to connect and brainstorm over new ideas and solutions referring to the pain points from across the customers.

Link to the CoE Teams channel

[VM.IND.CoreLeverage.Duckcreek-CoP | General | Microsoft Teams](https://teams.microsoft.com/l/team/19%3A8e33691628d54190935d0b4922738d2a%40thread.tacv2/conversations?groupId=648f745d-8731-4934-8b9c-e7e202d84dd5&tenantId=13085c86-4bcb-460a-a6f0-b373421c6323)

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## Duck Creek Sandbox

As a vanilla option, Duck Creek has provided 5 On-Prem licenses for Policy and Billing and 1 Claims DCOD license for Duck Creek Platform version 7.3, DI v3, Express 3 and Claims V12. The sandboxes are available for creation of assets, learning and exploring. For credentials and connectivity to these sandboxes, same can be requested from the Duck Creek team.

Globally, the Policy and Billing Express of a sandbox has been exposed. The urls are given below. To connect to these urls, VM VPN is needed which can be requested from the ICT team

Policy - <https://20.119.225.100:8081/Express/express.aspx#/me/express/defaultViewmodel>

Billing - <https://20.119.225.100:8081/Express/default.aspx>

## Documents, Guides, Checklists

|  |  |
| --- | --- |
| Document Name | Attachment |
| Duck Creek Installation Guide |  |
| PL101 Sample |  |
| Code and Unit Testing Review Checklist |  |
| Sample Unit Testing |  |