

# **ARRANGEMENT ARCHITECTURE**

## **Product Setup & Technical Guide**

## Arrangement Architecture Product Setup & Technical Guide

### Amendment History

Version	Date	Author / Changed By	Status
0.1	25 <sup>th</sup> May 2015	Dinesh BR	Initial Draft
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  - 10.2 Variables tab

### 1. Introduction

This document helps the user to understand about the functionality of Arrangement Architecture (AA) and flow of product setup and technical aspects in AA.

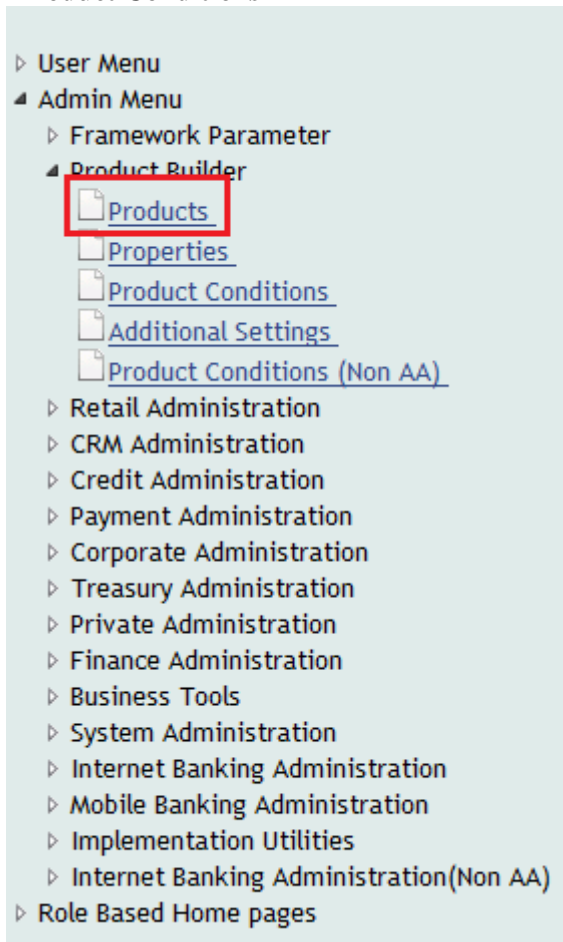
### 2. Components of AA

In AA, we have 5 major components are below,

- Product Line
- Product Group
- Product
- Property class
- Product conditions

#### 2.1 Flow of AA

From 5 major components, 3 are available under “**Products**” link and remaining 2 under “**Product Conditions**”.



## Arrangement Architecture Product Setup & Technical Guide

**T24 PRODUCT Browser**

**Product Lines**

Line
Accounts
Bundles
Deposits
Internet Services
Lending
Mobile Services

**Product Groups**

Group
Auto Loan
Discounted Loans
Cash Collateral Loan
Mortgage / Housing Loan
Personal Loan

**Products**

Product	Effective
AA78	01 OCT 2013
AA83	01 OCT 2013
JAB.LENDING	01 OCT 2013
LI07	01 OCT 2013
LOS.PERSONAL	01 OCT 2013

**T24 EDITOR**

- User Menu
- ▾ Admin Menu
  - Framework Parameter
  - ▾ Product Builder
    - Products
    - Properties
    - Product Conditions
    - Additional Settings
    - Product Conditions (Non AA)
  - Retail Administration
  - CRM Administration
  - Credit Administration
  - Payment Administration
  - Corporate Administration
  - Treasury Administration
  - Private Administration
  - Finance Administration
  - Business Tools
  - System Administration
  - Internet Banking Administration
  - Mobile Banking Administration
  - Implementation Utilities
  - Internet Banking Administration(Non AA)
- Role Based Home pages

**T24 PRODUCT CONDITIONS Browser**

**Classes**

Class ID	Class Description
ACCOUNT	Account Static
ACCOUNTING	Accounting Link
ACTIVITY.API	Activity API
ACTIVITY.CHARGES	Activity Charges
ACTIVITY.MAPPING	Activity Mapping
ACTIVITY.MESSAGING	Activity Messaging
ACTIVITY.PRESENTATION	Activity Presentation

**Product Conditions**

Conditions	Description	Effective
AA.ACCOUNT	AA ACCOUNT CREATION	01 OCT 2013
AA.ACCT.CLOSE	AA Account Closure	01 OCT 2013
AA.CUSTOMER	AA Customer	01 OCT 2013
AA68	Activity API for AA68	01 OCT 2013
AA78	JAB Activity API	01 OCT 2013
ACCOUNT.CREATE	DEFAULT ACCOUNT TITLE AND NAME	01 OCT 2013
JAB.LENDING	JAB Activity API	01 OCT 2013

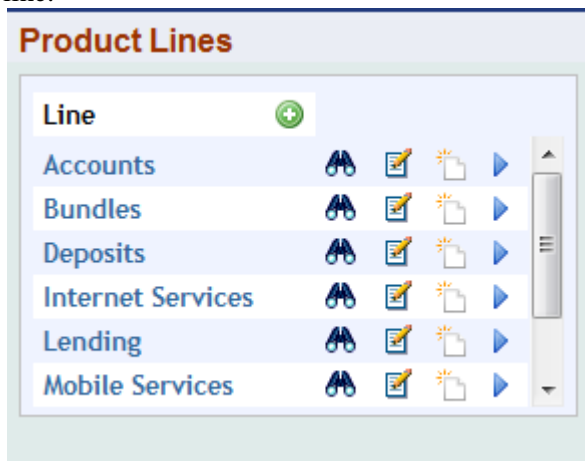
**T24 EDITOR**

In the above components, Product Line and Product Group will be created only by Temenos. In other components, we will be able to define conditions.

### 2.2 Product Line

Product Line is a high level definition of the business component which was created by Temenos. We can't able to create or modify anything in this Product Line.

It is where we select the purpose of what we are going to do. If we wish to get a loan, then we will go with "Lending" product line. If we wish to deposit, then we select "Deposits" product line.



### 2.3 Product Group











Product group provides basic shape to the product. This is where we will select which loan we are going to take. For example: if we wish to take personal loan, we will select "Personal Loan" product group.



### 2.4 Product








This is where the user links the desired properties to appropriate conditions.

For the product group we selected, we will have different products to use. In this product, we will define the conditions about how the product should behave.

Products			
Personal Loan			
Product	Effective		
AA78	01 OCT 2013		
AA83	01 OCT 2013		
JAB.LENDING	01 OCT 2013		
LI07	01 OCT 2013		
LOS.PERSONAL	01 OCT 2013		

## 2.5 Property Class

Class is where will have set of activities to behave. These can be given by Temenos and cannot be amended.

Classes		
Class ID	Class Description	
ACCOUNT	Account Static	
ACCOUNTING	Accounting Link	
ACTIVITY.API	Activity API	
ACTIVITY.CHARGES	Activity Charges	
ACTIVITY.MAPPING	Activity Mapping	
ACTIVITY.MESSAGING	Activity Messaging	
ACTIVITY.PRESENTATION	Activity Presentation	

Some major used classes are ACTIVITY.API and ACTIVITY.PRESENTATION.















## 2.6 Product Conditions

Product Condition is where we will define the behavior.



## Product Conditions

### ACTIVITY.API

Conditions	Description	Effective	
AA.ACCOUNT	AA ACCOUNT CREATION	01 OCT 2013	 
AA.ACCT.CLOSE	AA Account Closure	01 OCT 2013	 
AA.CUSTOMER	AA Customer	01 OCT 2013	 
AA68	Activity API for AA68	01 OCT 2013	 
AA78	JAB Activity API	01 OCT 2013	 
ACCOUNT.CREATE	DEFAULT ACCOUNT TITLE AND NAME	01 OCT 2013	 
JAB.FINDING	JAB Activity API	01 OCT 2013	 

## 3. Defining conditions

In the product condition, we will define **conditions for classes**. For the respective class, there will be some set of conditions to define the class.

For example: We are considering ACTIVITY.API, we have to create or modify to define conditions.

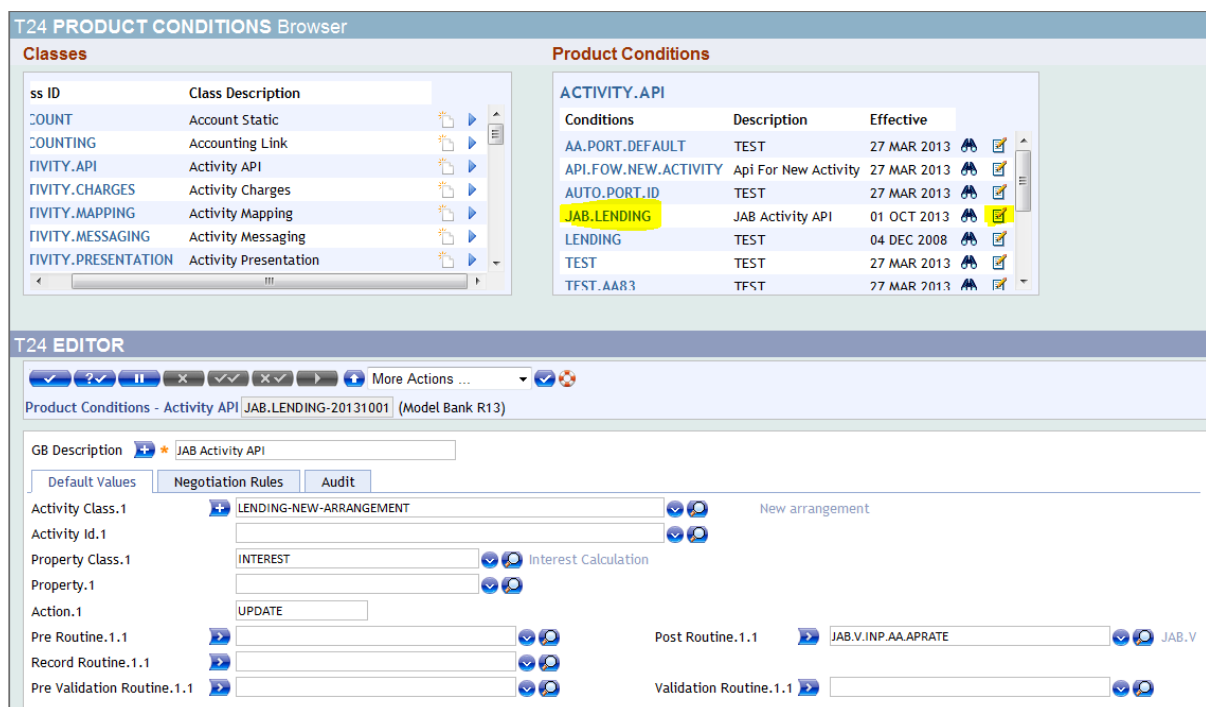
Some of the frequently used classes are given below:

### 3.1 ACTIVITY.API

This is the place where we play around with routines.

**In this ACTIVITY.API only, we have to attach routines.**

Here, user can define **ACTIVITY, PROPERTY.CLASS** and **ACTION**.



In order to define our local routines we have to provide valid **Activity Class / Activity ID** along with the **Property class/ Property** along with **Action**.

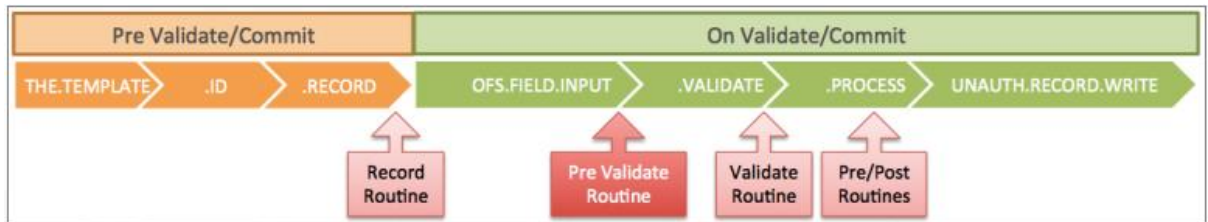
From the above screenshot, our routine will get triggered whenever the user updates the values in the Interest tab/section for a new a Lending contract.

We can define routines under following sections.

- **Record routine**  
Triggered when **record opens**
- **Pre validation routine**  
Triggered **before** core **validation** of the record
- **Validation routine**  
Triggered **during** **validation**

## Arrangement Architecture Product Setup & Technical Guide

- **Pre routine**  
Triggered **before** the defined **action** takes place
- **Post routine**  
Triggered **after** the defined **action** takes place



Above given screenshot clearly shows, in which stage which routine will get triggered.

The below screenshot shows the attachment of Record, Validation and Post routine in the product JAB.LENDING.

**T24 PRODUCT CONDITIONS Browser**

**Classes**

ss ID	Class Description
ACCOUNT	Account Static
COUNTING	Accounting Link
FIVITY.API	Activity API
FIVITY.CHARGES	Activity Charges
FIVITY.MAPPING	Activity Mapping
FIVITY.MESSAGING	Activity Messaging
FIVITY.PRESENTATION	Activity Presentation

**Product Conditions**

Conditions	Description	Effective
AA.CUSTOMER	AA Customer	01 OCT 2013
AA68	Activity API for AA68	01 OCT 2013
AA78	JAB Activity API	01 OCT 2013
ACCOUNT.CREATE	DEFAULT ACCOUNT TITLE AND NAME	01 OCT 2013
JAB.LENDING	JAB Activity API	01 OCT 2013
LI07	LI07 API	01 OCT 2013
LOS	Activty API for LOS products	01 OCT 2013

**T24 EDITOR**

Product Conditions - Activity API JAB.LENDING-20131001 (Head Office)

GB Description JAB Activity API

Default Values Negotiation Rules Audit

Activity Id.1 RESTRUCTURE-ADJUST-ALL-BALANCE-MAINTENANCE RESTRUCTURE

Property Class.1 BALANCE-MAINTENANCE Balance Maintenance

Action.1 ADJUST-BILL

Record Routine.1.1 JAB.PRE-AA-BAL-MAINTENANCE JAB.P

Post Routine.1.1 JAB.POST-AA-REST-DATE JAB.P

Validation Routine.1.1 JAB.V.VAL-AA-BAL-MAINTENANCE JAB.V

Activity Class.2 LENDING-CHANGE-INTEREST Change Interest calculation

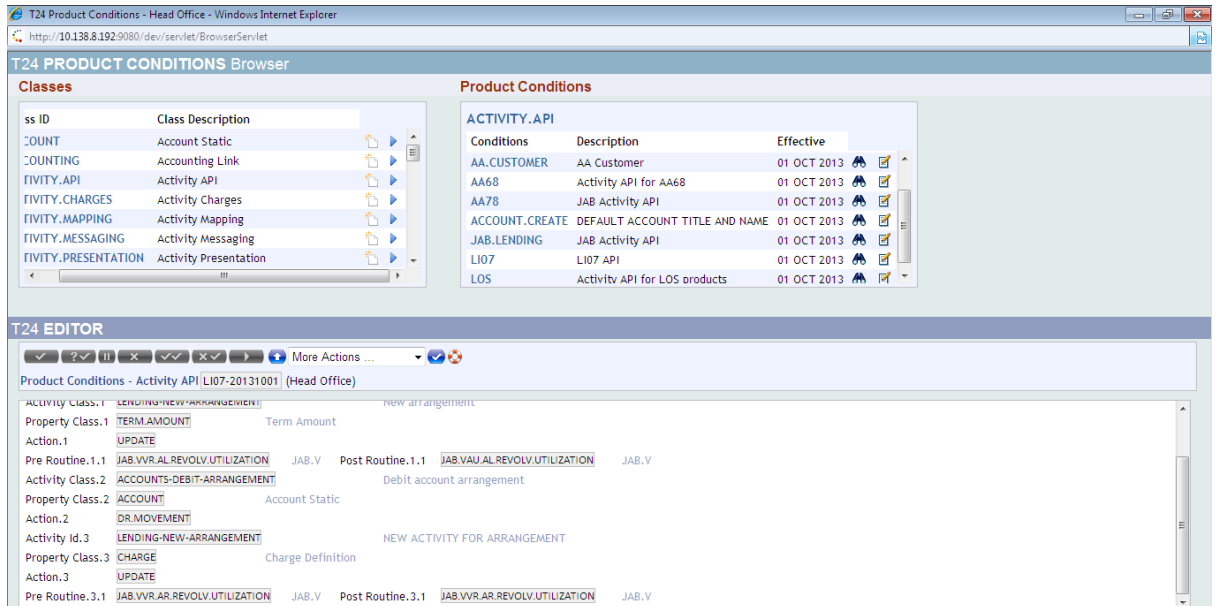
Property Class.2 INTEREST Interest Calculation

### Validation routine:

From the above screenshot our routine will get triggered whenever the user adjust the bill then validate the record for a “RESTRUCTURE-ADJUST-ALL-BALANCE-MAINTENANCE” activity and Action– “ADJUST-BILL”.

### Pre Routine:

## Arrangement Architecture Product Setup & Technical Guide

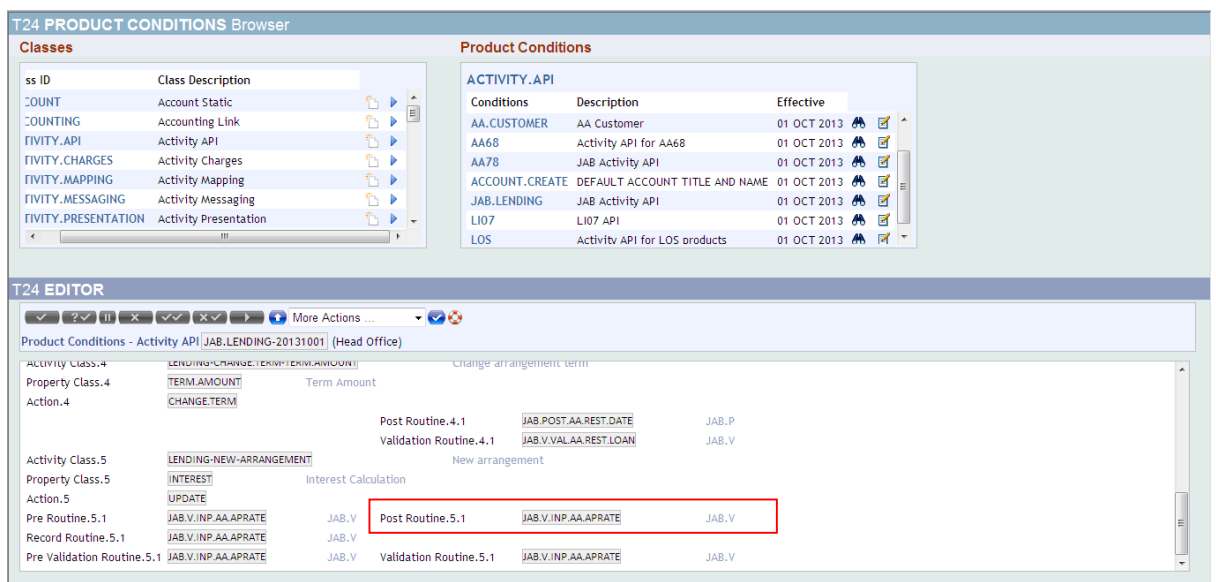


From the above screenshot our routine will get triggered whenever the user opens the record and updates in the Charge tab/section for a new a Lending contract.

### Post Routine:

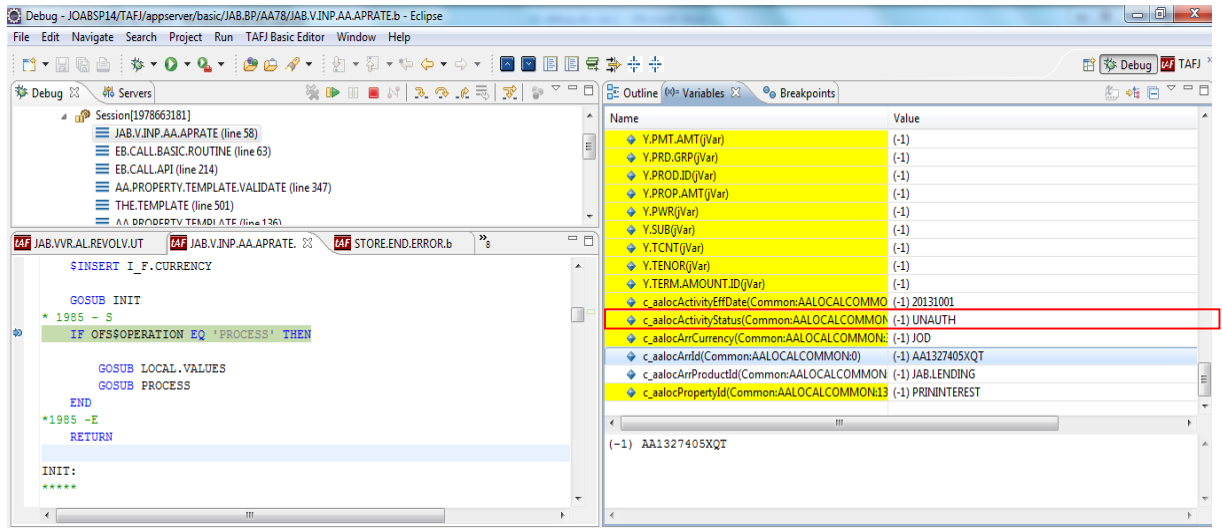
Post routine is triggered both UNAUTH and AUTH status for a Lending New Arrangement.

Local routine to perform the required action is attached as Post routine in JAB.LENDING product.

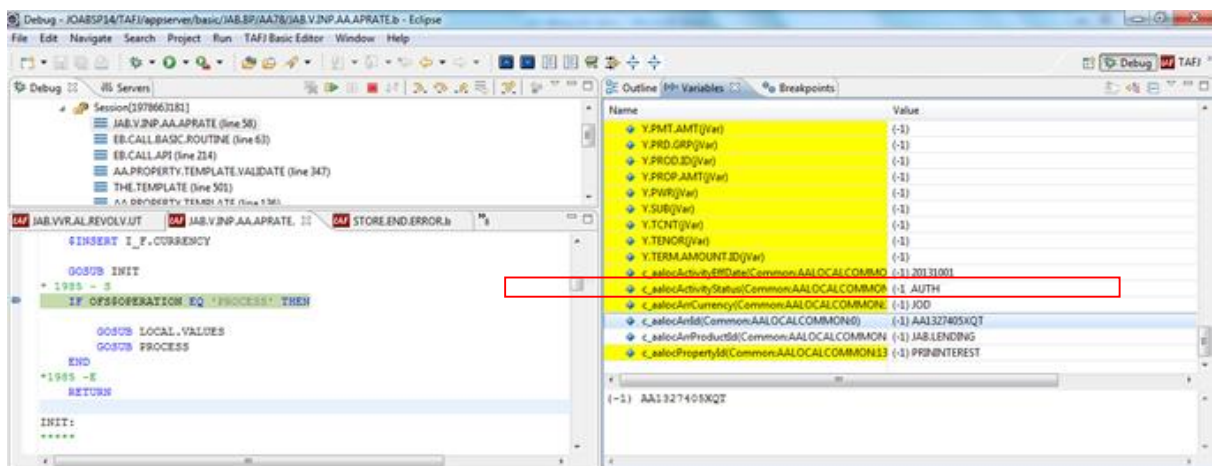


The below screenshot shows the post routine triggered with “UNAUTH” status,

## Arrangement Architecture Product Setup & Technical Guide



The below screenshot shows the post routine triggered with “AUTH” status,



### Note:

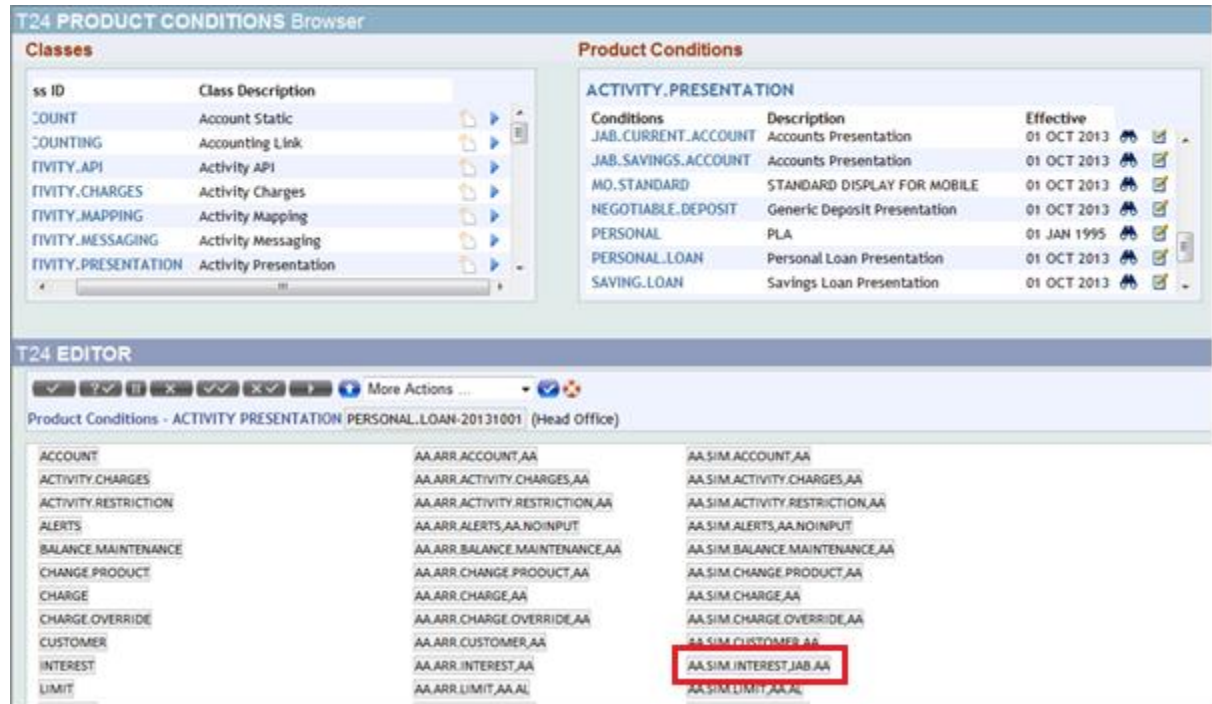
Pre and Post routines are called during all stages of template – like Input, Delete, Authorization, and Reversal. Hence the developer should always branch the control using **OF\$OPERATION**.

For ex: From the above screenshot, we have given as OF\$OPERATION EQ “PROCESS”. If condition gets satisfied, then system will process the defined code. Else, it will return. This is how we are taking control on code for pre and post routines.

## 3.2 ACTIVITY.PRESENTATION

It is used for defining various versions in a single screen which will be used for different Property classes/Properties/Activities during an entry.

Here, we will attach VERSIONS.

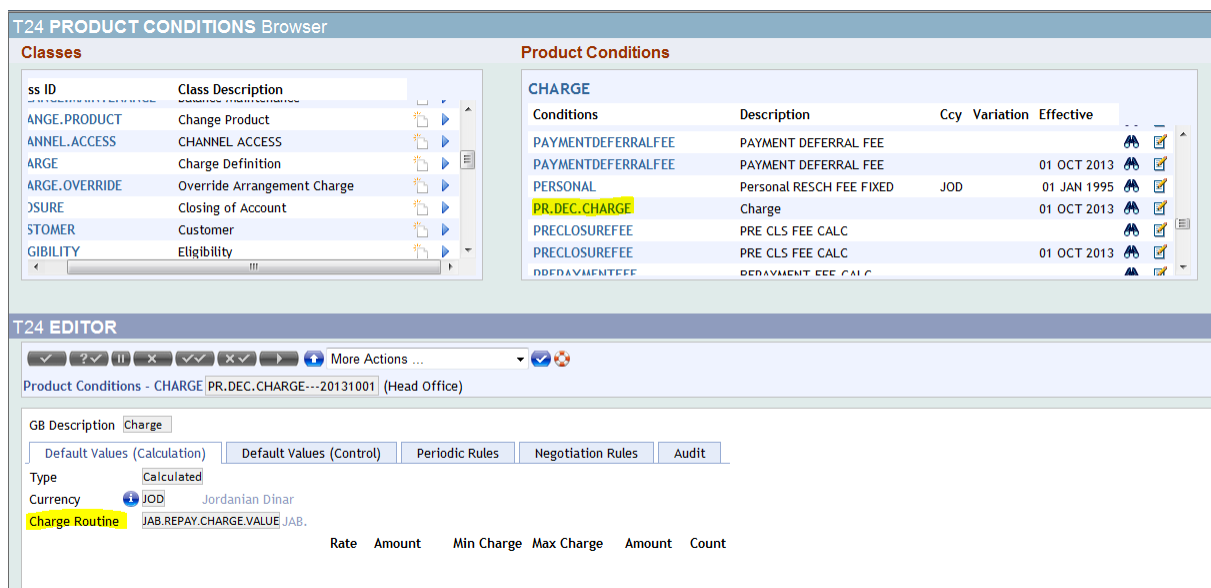


No routines should be defined in the versions defined in ACTIVITY.PRESENTATION. The versions should only define screen layout.

Adding local field to the application is covered in Section 5.

## 3.3 CHARGE

This property is used to define charges. This property class can be added to PAYMENT SCHEDULE property class for defining scheduled charges. To define charges related to an activity this class can be used in ACTIVITY CHARGE property class.



Charge routine field is used to define calculation as required by user. Usually, we will attach routine in this field to calculate charge.

### 3.4 ACTIVITY.CHARGES

It defines the charge that needs to be applied when activity is triggered.

For example: If we increase/decrease Term amount (LENDING-INCREASE-TERM.AMOUNT/LENDING-DECREASE-TERM.AMOUNT) in an arrangement, corresponding charge property will be called which was defined in Property conditions.

**T24 PRODUCT CONDITIONS Browser**

**Classes**

ss ID	Class Description
COUNT	Account Static
COUNTING	Accounting Link
PIVITY.API	Activity API
PIVITY.CHARGES	Activity Charges
PIVITY.MAPPING	Activity Mapping
PIVITY.MESSAGING	Activity Messaging
PIVITY.PRESENTATION	Activity Presentation

**Product Conditions**

**ACTIVITY.CHARGES**

Conditions	Description	Variation	Effective
CASHCOLLLOAN	Cash Collateral Loan		01 OCT 2013
DISCOUNTED	Activity charges-Discounted Loans		01 OCT 2013
JABACTIVITYCHARGE	Activity charges for Accounts		01 OCT 2013
NEGOTIABLE	Negotiable Activity Charges		01 OCT 2013
<b>NEGOTIABLE.LOAN</b>	Activity Fees		01 OCT 2013
OTHLN.ACTIVITYCHARGE	Activity charges for Other Loans		01 OCT 2013

**T24 EDITOR**

Product Conditions - ACTIVITY.CHARGES | NEGOTIABLE.LOAN--20131001 | (Head Office)

Default Values | **Negotiation Rules** | Audit

	Charge	Period	Method
Activity.1 LENDING-APPLYPAYMENT-PR.PAYOFF	PAYOFFFEE		Due
Activity.2 LENDING-APPLYPAYMENT-PR.PRINCIPAL.DECREASE	PREPAYMENTFEE		Due
	PRECLOSUREFEE		Due
	PRINDECREASEFEE		Due
Activity.3 LENDING-SETTLE-PAYOFF	PAYOFFFEE		Due
Activity.4 LENDING-APPLYPAYMENT-PR.REPAYMENT	PRECLOSUREFEE		Due
	PRINDECREASEFEE		Due
	PAYOFFFEE		Due

### 3.5 ACTIVITY.MAPPING

In this property class, we will define about which transaction code to be hit during respective activities.

**T24 PRODUCT CONDITIONS Browser**

**Classes**

Class ID	Class Description
ACCOUNT	Account Static
ACCOUNTING	Accounting Link
ACTIVITY.API	Activity API
ACTIVITY.CHARGES	Activity Charges
ACTIVITY.MAPPING	Activity Mapping
ACTIVITY.MESSAGING	Activity Messaging
ACTIVITY.PRESENTATION	Activity Presentation

**Product Conditions**

**ACTIVITY.MAPPING**

Conditions	Description	Effective
ACCOUNTS	Accounts Transaction Mapping	01 OCT 2013
DEPOSITS	Deposits Transaction Mapping	01 OCT 2013
LENDING	Lending Transaction Mapping	01 OCT 2013
PERSONAL	Personal Transaction Mapping	01 JAN 1995

**T24 EDITOR**

Product Conditions - ACTIVITY MAPPING LENDING-20131001 (Head Office)

GB Description Lending Transaction Mapping

Defaults Values Negotiation Rules Audit

Transaction	Activity	
Default Credit	LENDING-APPLYPAYMENT-PR.REPAYMENT	APPLYPAYMENT ACTIVITY FOR PR.REPAYMENT
Default Debit	LENDING-DISBURSE-COMMITMENT	DISBURSE ACTIVITY FOR COMMITMENT
851	LENDING-APPLYPAYMENT-PR.PRINCIPAL DECREASE	APPLYPAYMENT ACTIVITY FOR PR.PRINCIPAL DECREASE
853	LENDING-SETTLE-PAYOFF	SETTLE ACTIVITY FOR PAYOFF
890	LENDING-CREDIT-ARRANGEMENT	CREDIT ACTIVITY FOR ARRANGEMENT

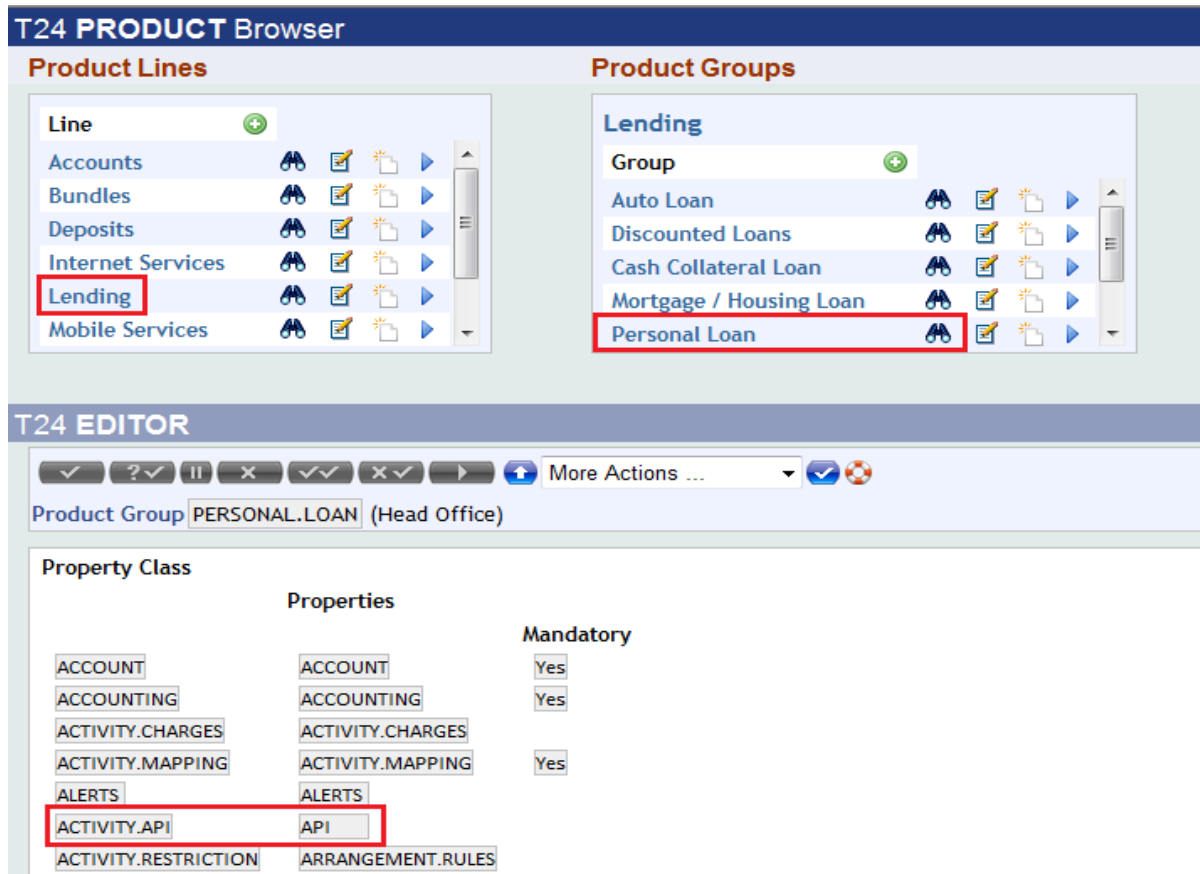
## 4. Activity setup flow of AA

While setting up the product, we have to consider **Property classes and Property conditions** in **Product Group and Product** respectively.

For example: Please see the below screenshots showing flow of attaching API to product.

Lending -> Personal Loan (View) -> Activity API -> API





In the above screenshot, Property class is `ACTIVITY.API` and the id given for this property class is `API`. This should be given in the Property Condition.

## Arrangement Architecture Product Setup & Technical Guide

The screenshot displays the T24 PRODUCT Browser and T24 EDITOR interface. The T24 PRODUCT Browser is divided into three panes: Product Lines, Product Groups, and Products. The T24 EDITOR shows the Product Designer for 'OTHER.LOAN-20131001' (Head Office).

**T24 PRODUCT Browser**

- Product Lines:** Accounts, Bundles, Deposits, Internet Services, **Lending**, Mobile Services.
- Product Groups:** Lending
  - Group: Auto Loan, Discounted Loans, Cash Collateral Loan, Mortgage / Housing Loan, **Personal Loan**.
- Products:** Personal Loan
  - Product: OLD PERSONAL LOANS, **OTHER LOAN / INDIVIDUAL**, PERSONALLOAN.PARENT, PL - AHLI BANK STAFF LOAN, PL - AHLI BK STAFF SPECIAL.

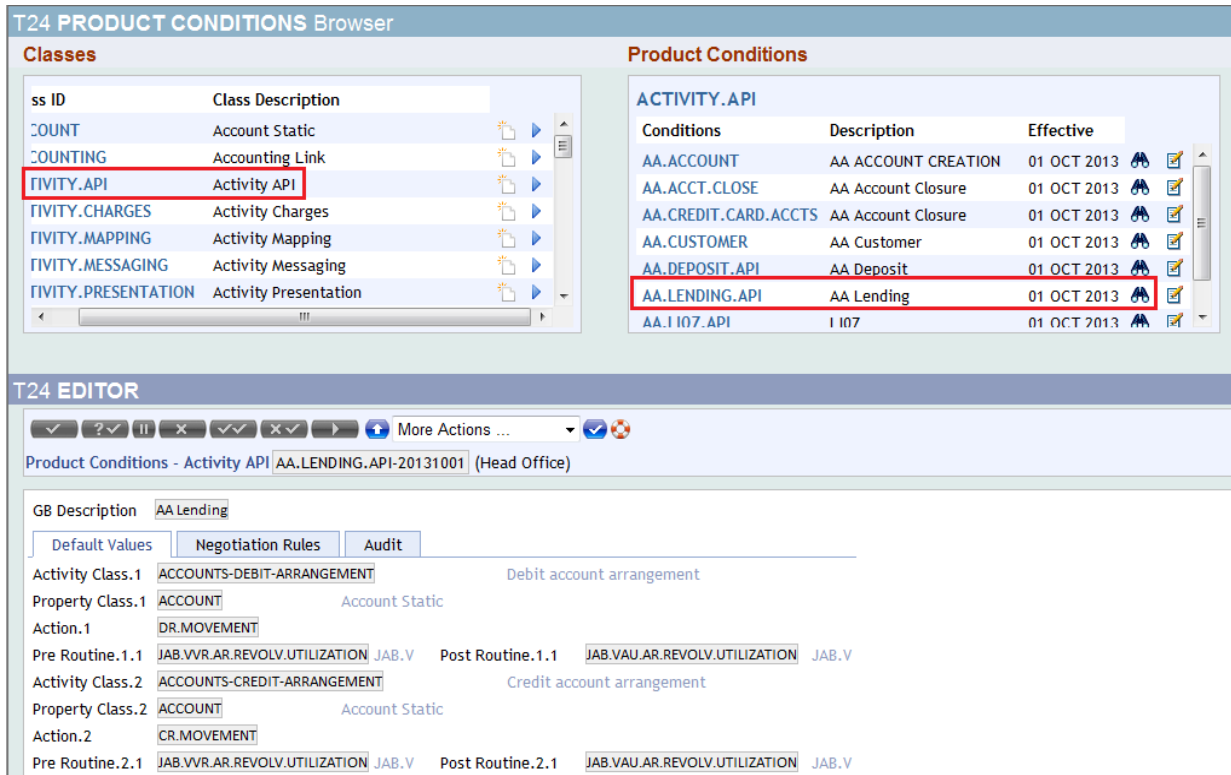
**T24 EDITOR**

Product Designer: OTHER.LOAN-20131001 (Head Office)

Property	Value	Tracking
COMMITMENT	OTHER.LOAN/INDIVIDUAL	Non Tracking
CUSTOMER	NEGOTIABLE	Non Tracking
LIMIT	LIMIT	Non Tracking
MESSAGING	LENDING	Non Tracking
OFFICERS	LENDING	Non Tracking
OVERDUE	OVERDUE.DAYS	Tracking
PR.REPAYMENT	BYDATE.CURRENT.CRDBAL	Tracking
PRESENTATION	CONSUMER.LOAN	Tracking
SCHEDULE	CONSTANT.1M.NEG	Non Tracking
SETTLEMENT	SETTLEMENT	Non Tracking
ALERTS	ALERTS	Non Tracking
ELIGIBILITY	OTHER.LOAN.INDIVIDUAL	Tracking
<b>API</b>	<b>AA.LENDING.API</b>	Tracking

Property class is the id of Product classes. Here, we will define the properties which will be used in Product designer.

From the above screenshot, AA.LENDING.API is the property condition defined in product. Also, it is the id of Activity.API class.



In this API, we have attached routines as Pre & Post.

The above given setup is for one property class. Likewise, we have to setup for other activities based on the requirement.

### 5. Adding Local Reference Field

AA Properties shares the same field layout across 4 different files:

- Designer (Example: AA.PRD.DES.CUSTOMER)
- Proofing (Example: AA.PRD.PRF.CUSTOMER)
- Catalog (Example: AA.PRD.CAT.CUSTOMER)
- Arrangement (Example: AA.ARR.CUSTOMER)

To avoid duplicity and maintain data integrity, AA allows definition of Local reference fields to just one file (the PRD.DES files) and replicates the same across other levels automatically.

We have given below the screenshots of local field and it was attached to the AA.PRD.DES.ACCOUNT table.

**Local table:**

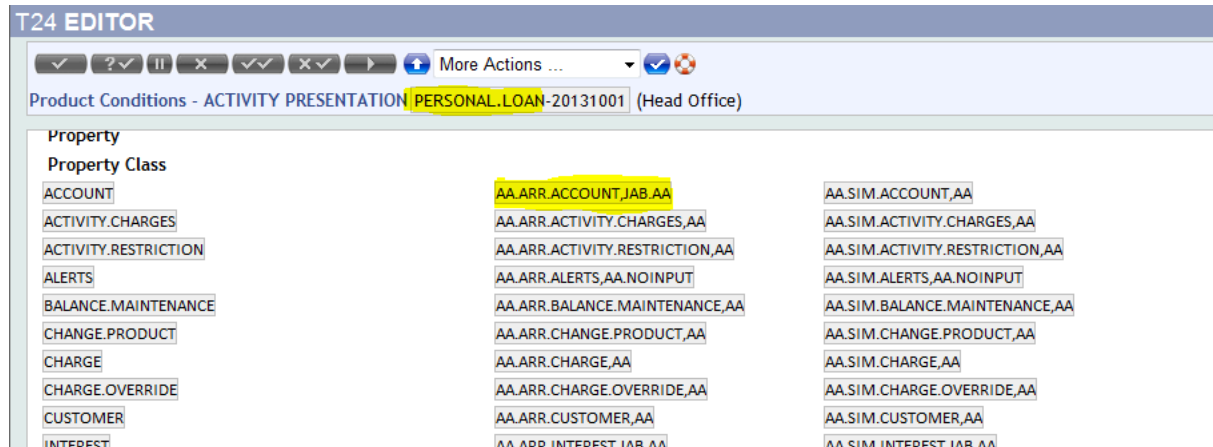
LOCAL.TABLE TAM.RESTRUCTURE.DATE (Head Office)	
GB Description	TAM.RESTRUCTURE.DATE
GB Short Name	L.RESTRUCT.DATE
Maximum Char	11
Char Type	D
Curr No	3
Inputter.1	67755_SUDHAR2__OFS_BUILD.CONTROL
Date Time.1	13 JAN 15 11:55 13 JAN 15 11:55
Authoriser	67755_SUDHAR2__OFS_BUILD.CONTROL
Co Code	JO-001-0001 Head Office
Dept Code	1 Implementation

**Local Ref table:**

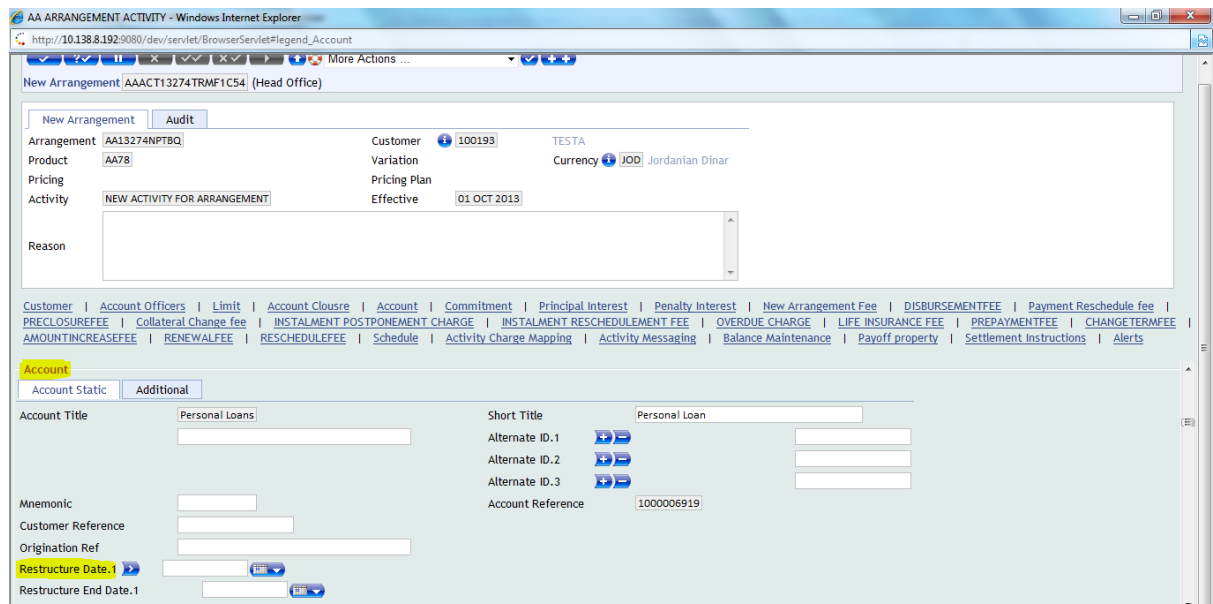
LOCAL.REF.TABLE AA.PR.DES.ACCOUNT AA Product Des - Account (Head Office)	
Local Table No.1	TAM.SIG.VERIFY SIG.VERIFY
Local Table No.2	TAM.CHQ.ISSUE.DATE CHQ.ISSUE.DATE
Local Table No.3	IBAN ACCT.IBAN
Local Table No.4	TAM.L.BLK.MAND.ALERT L.BLK.MND.ALERT
Local Table No.5	TAM.RESTRUCTURE.DATE L.RESTRUCT.DATE
Sub Assoc Code.5	Xx<
Local Table No.6	TAM.END.DATE L.END.DATE
Sub Assoc Code.6	Xx>
Curr No	5
Inputter.1	142_SRINIDHI1__OFS_GCS
Date Time.1	27 OCT 14 15:09 27 OCT 14 15:09
Authoriser	157_SRINIDHI2__OFS_GCS
Co Code	JO-001-0001 Head Office
Dept Code	1 Implementation

The above local field is attached to the version AA.ARR.ACCOUNT,JAB.AA which was attached to the ACTIVITY.PRESENTATION>PERSONAL.LOAN

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The above setup will lead to display the LRF in the Account property tab. The screenshot is given below:



Till now, we have seen the technical functionality of AA. Now, we are going to learn about the business flow in AA.

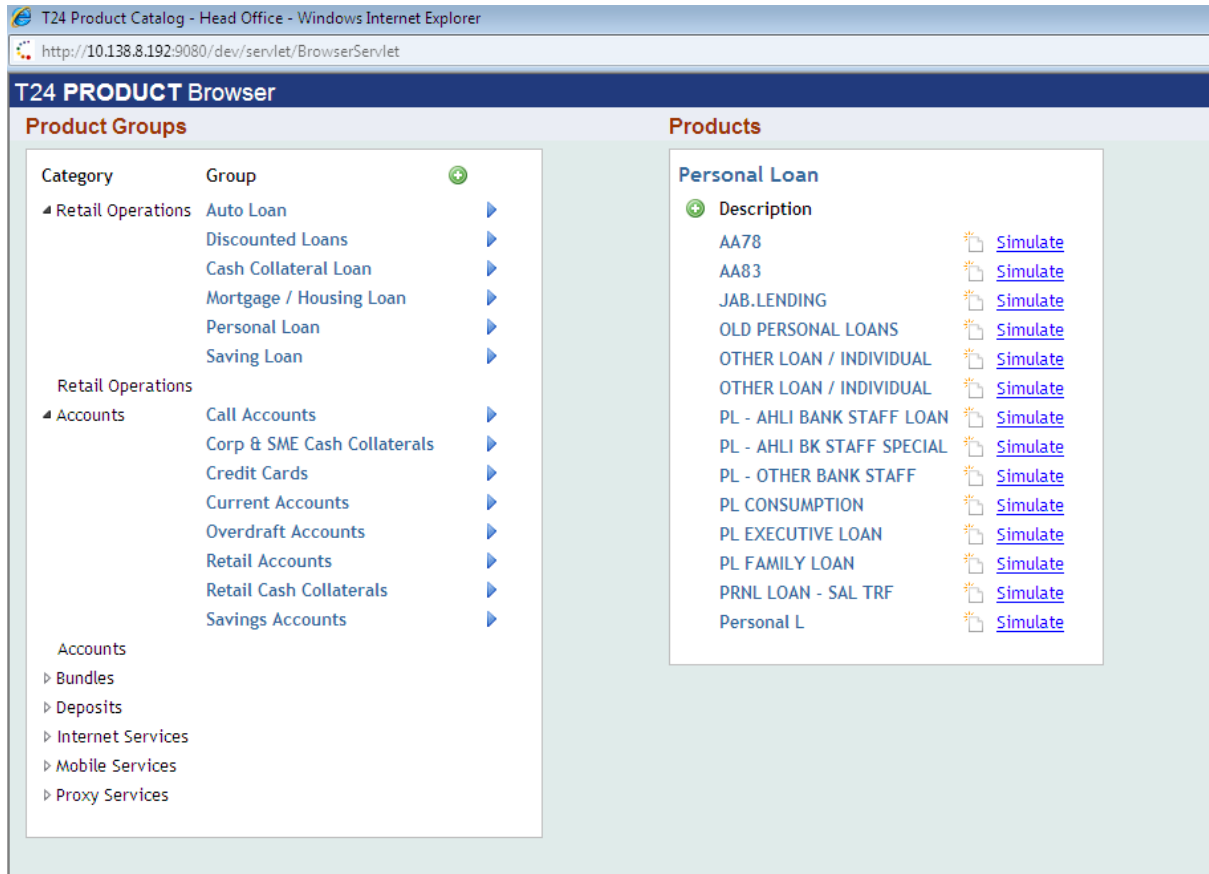
### 6. New Arrangement Architecture

While creating a new Arrangement Architecture, it displays multiple Product groups and Product.

Every Product Groups contains different Products.

Please find below the product groups and products in the product catalog which is defined in the products and product conditions.

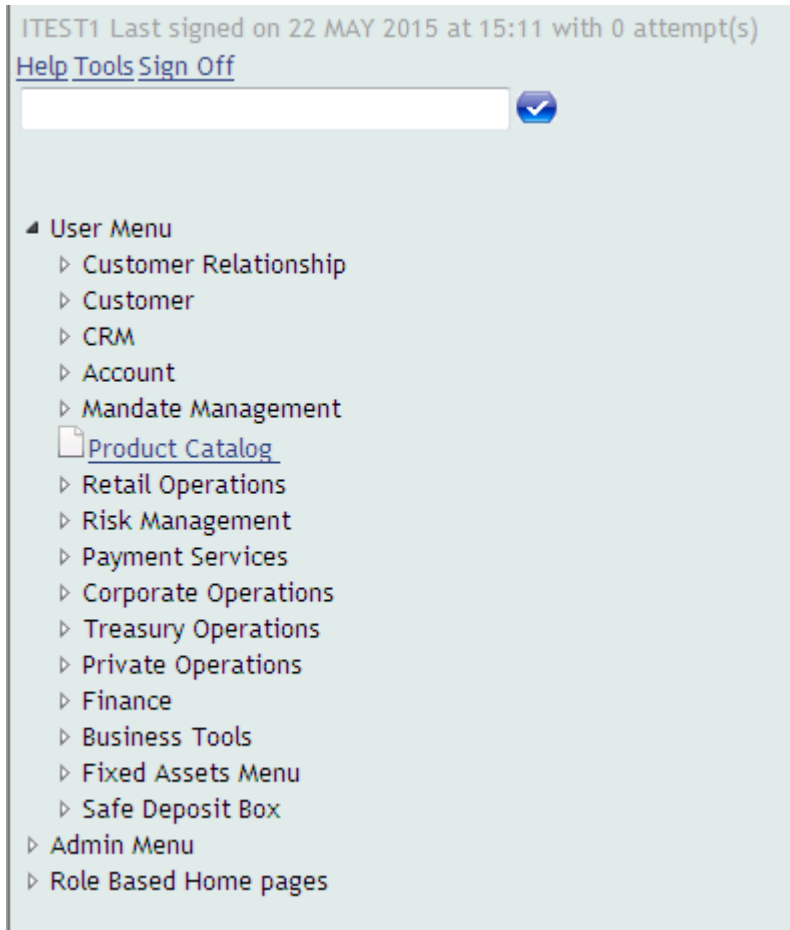
## Arrangement Architecture Product Setup & Technical Guide



### 6.1 Create New Arrangement Architecture

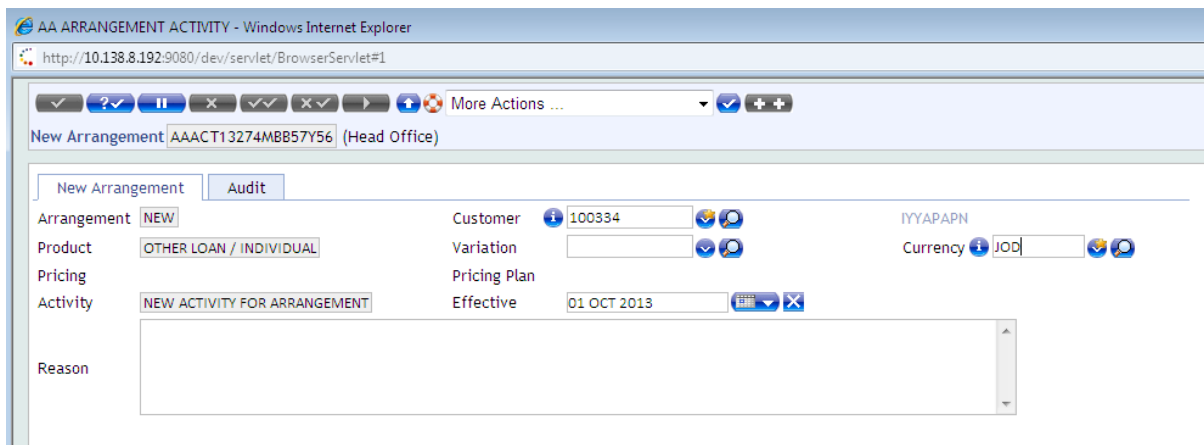
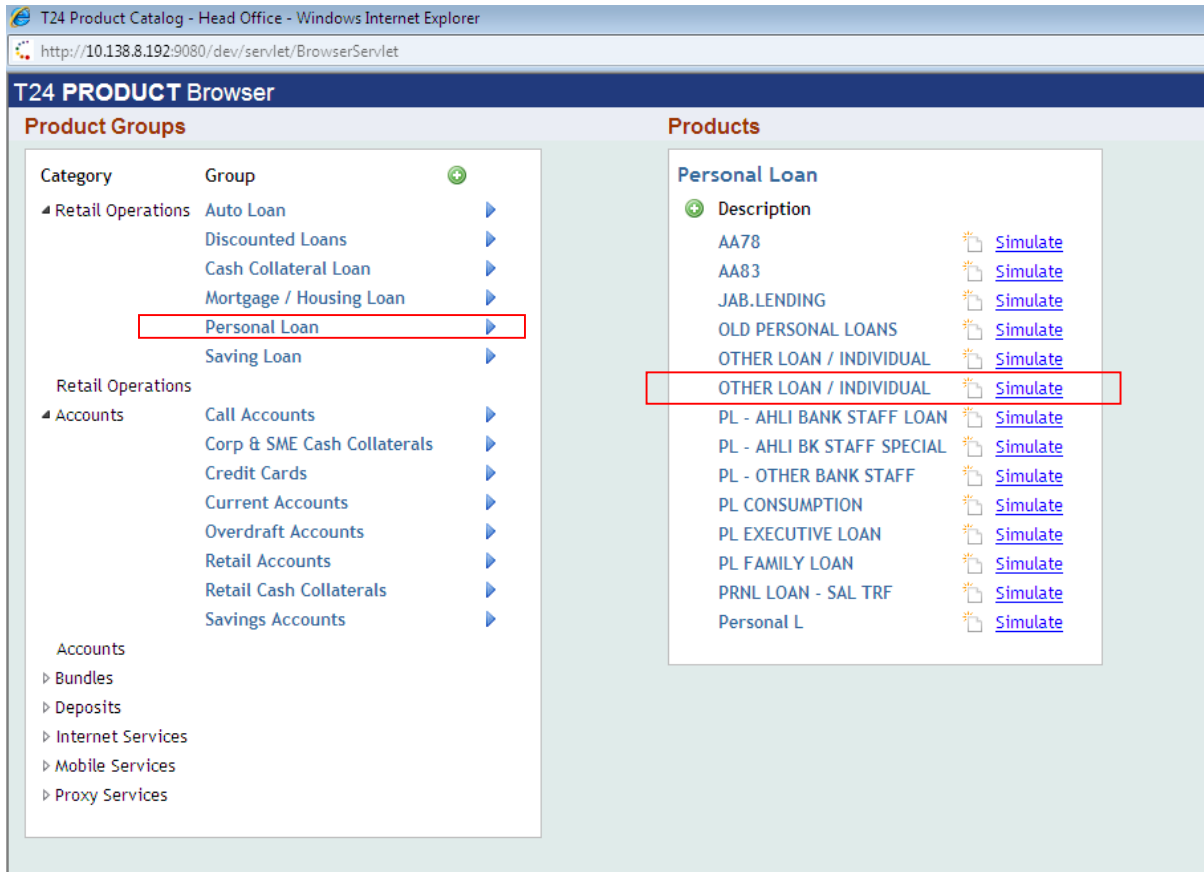
To create New Arrangement Architecture via T24 browser, follow the below steps

Click on User Menu -> Product Catalog



Pop up window will be opened, Choose Product Group as Personal Loan & Product as Other Loan

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Enter your Customer id and Currency details in the above screen and validate the record, it will open up the arrangement screen to define values.



## Arrangement Architecture Product Setup & Technical Guide

AA ARRANGEMENT ACTIVITY - Windows Internet Explorer  
http://10.138.8.192:9080/dev/servlet/BrowseServlet#1

New Arrangement: AAAC13274MBB57Y56 (Head Office)

**New Arrangement** | Audit

Arrangement: AA13274QW/HBW Customer: 100334 IYYAPAPN  
Product: OTHER LOAN / INDIVIDUAL Variation: Currency: JOD Jordanian Dinar  
Pricing: Pricing Plan  
Activity: NEW ACTIVITY FOR ARRANGEMENT Effective: 01 OCT 2013  
Reason:

Customer | Account Officers | Limit | Account Closure | Account | Commitment | Principal Interest | Penalty Interest | New Arrangement Fee | DISBURSEMENT FEE | Payment Reschedule fee | Principal Decrease Fee | Payoff Fee | PRECLOSURE FEE | Collateral Change fee | INSTALMENT POSTPONEMENT CHARGE | INSTALMENT RESCHEDULEMENT FEE | OVERDUE CHARGE | LIFE INSURANCE FEE | PREPAYMENT FEE | CHANGETERM FEE | AMOUNT INCREASE FEE | RENEWAL FEE | RESCHEDULE FEE | Schedule | Activity Charge Mapping | Activity Messaging | Balance Maintenance | Payoff property | Settlement Instructions | Alerts

**Customer**

Owner.1: 100334 IYYAPAPN  
Primary Owner: 100334 IYYAPAPN  
Other Party.1:   
Role.1:   
Notes.1:

### Account Tab:

AA ARRANGEMENT ACTIVITY - Windows Internet Explorer  
http://10.138.8.192:9080/dev/servlet/BrowseServlet#legend\_Account

New Arrangement: AAAC13274MBB57Y56 (Head Office)

**New Arrangement** | Audit

Arrangement: AA13274QW/HBW Customer: 100334 IYYAPAPN  
Product: OTHER LOAN / INDIVIDUAL Variation: Currency: JOD Jordanian Dinar  
Pricing: Pricing Plan  
Activity: NEW ACTIVITY FOR ARRANGEMENT Effective: 01 OCT 2013  
Reason:

Customer | Account Officers | Limit | Account Closure | Account | Commitment | Principal Interest | Penalty Interest | New Arrangement Fee | DISBURSEMENT FEE | Payment Reschedule fee | Principal Decrease Fee | Payoff Fee | PRECLOSURE FEE | Collateral Change fee | INSTALMENT POSTPONEMENT CHARGE | INSTALMENT RESCHEDULEMENT FEE | OVERDUE CHARGE | LIFE INSURANCE FEE | PREPAYMENT FEE | CHANGETERM FEE | AMOUNT INCREASE FEE | RENEWAL FEE | RESCHEDULE FEE | Schedule | Activity Charge Mapping | Activity Messaging | Balance Maintenance | Payoff property | Settlement Instructions | Alerts

**Account**

Account Static | Additional

Account Title: Personal Loans Short Title: Personal Loan  
Alternate ID.1:   
Alternate ID.2:   
Alternate ID.3:   
Mnemonic:   
Customer Reference:   
Origination Ref:   
Account Reference: 1000010703

**Mandatory input fields are -Term Amount and Penalty interest (Fixed rate)**

## Arrangement Architecture Product Setup & Technical Guide

AA ARRANGEMENT ACTIVITY - Windows Internet Explorer

http://10.138.8.192:9080/dev/servlet/BrowserServlet#1

New Arrangement: AAAC13274MB857Y56 (Head Office)

Commitment - Amount Term Amount Mandatory  
Penalty Interest - FIXED.RATE.1 AA.INT.MAND.INP

New Arrangement Audit

Arrangement: AA13274QW/HBW Customer: 100334 IYYAPAPN  
Product: OTHER LOAN / INDIVIDUAL Variation: IYYAPAPN Currency: JOD Jordanian Dinar  
Pricing: NEW ACTIVITY FOR ARRANGEMENT Pricing Plan: Effective: 01 OCT 2013  
Reason:

Customer | Account Officers | Limit | Account Closure | Account | Commitment | Principal Interest | Penalty Interest | New Arrangement Fee | DISBURSEMENT FEE | Payment Reschedule fee | Principal Decrease Fee | Payoff Fee | PRECLOSURE FEE | Collateral Change fee | INSTALMENT POSTPONEMENT CHARGE | INSTALMENT RESCHEDULEMENT FEE | OVERDUE CHARGE | LIFE INSURANCE FEE | PREPAYMENT FEE | CHANGETERM FEE | AMOUNT INCREASE FEE | RENEWAL FEE | RESCHEDULE FEE | Schedule | Activity Charge Mapping | Activity Messaging | Balance Maintenance | Payoff property | Settlement Instructions | Alerts

Customer

Owner,1: 100334 IYYAPAPN  
Primary Owner: 100334 IYYAPAPN  
Other Party,1:  
Role,1:  
Notes,1:

### Commitment tab:

Input the term amount of the loan,

AA ARRANGEMENT ACTIVITY - Windows Internet Explorer

http://10.138.8.192:9080/dev/servlet/BrowserServlet#1

New Arrangement: AAAC13274MB857Y56 (Head Office)

Commitment - Amount Term Amount Mandatory  
Penalty Interest - FIXED.RATE.1 AA.INT.MAND.INP

New Arrangement Audit

Arrangement: AA13274QW/HBW Customer: 100334 IYYAPAPN  
Product: OTHER LOAN / INDIVIDUAL Variation: IYYAPAPN Currency: JOD Jordanian Dinar  
Pricing: NEW ACTIVITY FOR ARRANGEMENT Pricing Plan: Effective: 01 OCT 2013  
Reason:

Commitment

Amount: 15000 Change Amount:  
Term: Maturity Date: 01 OCT 2013  
Revolving: [None] No Payment Prepayment Update Limit: [None] No Yes  
Cooling Period: Cancel Period:  
On Maturity: AMOUNT INCREASE

Customer | Account Officers | Limit | Account Closure | Account | Commitment | Principal Interest | Penalty Interest | New Arrangement Fee | DISBURSEMENT FEE | Payment Reschedule fee | Principal Decrease Fee | Payoff Fee | PRECLOSURE FEE | Collateral Change fee | INSTALMENT POSTPONEMENT CHARGE | INSTALMENT RESCHEDULEMENT FEE | OVERDUE CHARGE | LIFE INSURANCE FEE | PREPAYMENT FEE | CHANGETERM FEE | AMOUNT INCREASE FEE | RENEWAL FEE | RESCHEDULE FEE | Schedule | Activity Charge Mapping | Activity Messaging | Balance Maintenance | Payoff property | Settlement Instructions | Alerts

### Principal Interest tab:

## Arrangement Architecture Product Setup & Technical Guide

AA ARRANGEMENT ACTIVITY - Windows Internet Explorer  
http://10.138.8.192:9080/dev/servlet/BrowserServlet?legend\_PrincipalInterest

New Arrangement: AAAC113274MB857Y56 (Head Office)

**New Arrangement** | **Audit**

Arrangement: AA13274QW/HBW | Customer: 100334 | IYYAPAPN  
Product: OTHER LOAN / INDIVIDUAL | Variation: | Currency: JOD Jordanian Dinar  
Pricing: | Pricing Plan: |  
Activity: NEW ACTIVITY FOR ARRANGEMENT | Effective: 01 OCT 2013

Reason:

[Customer](#) | [Account Officers](#) | [Limit](#) | [Account Closure](#) | [Account](#) | [Commitment](#) | [Principal Interest](#) | [Penalty Interest](#) | [New Arrangement Fee](#) | [DISBURSEMENT FEE](#) | [Payment Reschedule fee](#) | [Principal Decrease Fee](#) | [Payoff Fee](#) | [PRECLOSURE FEE](#) | [Collateral Change fee](#) | [INSTALMENT POSTPONEMENT CHARGE](#) | [INSTALMENT RESCHEDULEMENT FEE](#) | [OVERDUE CHARGE](#) | [LIFE INSURANCE FEE](#) | [PREPAYMENT FEE](#) | [CHANGETERM FEE](#) | [AMOUNT INCREASE FEE](#) | [RENEWAL FEE](#) | [RESCHEDULE FEE](#) | [Schedule](#) | [Activity Charge Mapping](#) | [Activity Messaging](#) | [Balance Maintenance](#) | [Payoff property](#) | [Settlement Instructions](#) | [Alerts](#)

**Principal Interest**

**AA** | **Control**

**Fixed**

Index

Index / Period / Method / Reset Frequency

Type / Op / Rate

Min / Max

Amount or %

15  
Floating: 1  
Periodic: 1  
Interpolate  
Every 24 month  
Margin: 1.1  
Single Margin  
Add

### Penalty Interest tab:

AA ARRANGEMENT ACTIVITY - Windows Internet Explorer  
http://10.138.8.192:9080/dev/servlet/BrowserServlet#1

New Arrangement: AAAC113274MB857Y56 (Head Office)

**New Arrangement** | **Audit**

Arrangement: AA13274QW/HBW | Customer: 100334 | IYYAPAPN  
Product: OTHER LOAN / INDIVIDUAL | Variation: | Currency: JOD Jordanian Dinar  
Pricing: | Pricing Plan: |  
Activity: NEW ACTIVITY FOR ARRANGEMENT | Effective: 01 OCT 2013

Reason:

[Customer](#) | [Account Officers](#) | [Limit](#) | [Account Closure](#) | [Account](#) | [Commitment](#) | [Principal Interest](#) | [Penalty Interest](#) | [New Arrangement Fee](#) | [DISBURSEMENT FEE](#) | [Payment Reschedule fee](#) | [Principal Decrease Fee](#) | [Payoff Fee](#) | [PRECLOSURE FEE](#) | [Collateral Change fee](#) | [INSTALMENT POSTPONEMENT CHARGE](#) | [INSTALMENT RESCHEDULEMENT FEE](#) | [OVERDUE CHARGE](#) | [LIFE INSURANCE FEE](#) | [PREPAYMENT FEE](#) | [CHANGETERM FEE](#) | [AMOUNT INCREASE FEE](#) | [RENEWAL FEE](#) | [RESCHEDULE FEE](#) | [Schedule](#) | [Activity Charge Mapping](#) | [Activity Messaging](#) | [Balance Maintenance](#) | [Payoff property](#) | [Settlement Instructions](#) | [Alerts](#)

**Penalty Interest - FIXED, RATE, 1 AA, INT, MAND, INP**

15  
Floating: 1  
Periodic: 1  
Margin: 1.1  
Tier: 1 13.50  
Up To: 1

## Arrangement Architecture Product Setup & Technical Guide

### Schedule for the respective Arrangement architecture:

Here defined the Payment type, Method, Property & Frequency.

The screenshot displays the 'AA ARRANGEMENT ACTIVITY' web application in a Windows Internet Explorer browser. The page title is 'AA ARRANGEMENT ACTIVITY - Windows Internet Explorer'. The URL bar shows 'http://10.138.8.192:9080/dev/servlet/BrowserServlet?Legend\_Schedule'. The page content includes a 'New Arrangement' tab and an 'Audit' tab. The 'New Arrangement' section shows details for arrangement 'AA13274QW/HBW', customer '100334', product 'OTHER LOAN / INDIVIDUAL', and currency 'JOD Jordanian Dinar'. The 'Schedule' section is active, showing a table with columns: Type, Method, Pymnt Freq, Prog %, Property, Due Freq, PercentStart, End, Num, Amount, Bill Type, and Prod. The table contains two rows: 'Payment.1' and 'Payment.2'. 'Payment.1' has a 'CONSTANT' type, 'Due' method, 'e0Y e1M e0W e0F' frequency, and 'ACCOUNT' property. 'Payment.2' has a 'DISBURSEMENT.%' type, 'Pay' method, and 'ACCOUNT' property. The 'Reason' field is empty. The bottom of the page has a navigation bar with links like 'Customer', 'Account Officers', 'Limit', 'Account Closure', 'Account', 'Commitment', 'Principal Interest', 'Penalty Interest', 'New Arrangement Fee', 'DISBURSEMENTFEE', 'Payment Reschedule fee', 'Principal Decrease Fee', 'Payoff Fee', 'PRECLOSUREFEE', 'Collateral Change fee', 'INSTALMENT POSTPONEMENT CHARGE', 'INSTALMENT RESCHEDULEMENT FEE', 'OVERDUE CHARGE', 'LIFE INSURANCE FEE', 'PREPAYMENTFEE', 'CHANGETERMFEE', 'AMOUNTINCREASEFEE', 'RENEWALFEE', 'RESCHEDULEFEE', 'Schedule', 'Activity Charge Mapping', 'Activity Messaging', 'Balance Maintenance', 'Payoff property', 'Settlement Instructions', and 'Alerts'.

### Account Closure:

In account closure Activity and action fields are defaulted based on the Product & Product condition s Setup.

The screenshot displays the 'AA ARRANGEMENT ACTIVITY' web application in a Windows Internet Explorer browser. The page title is 'AA ARRANGEMENT ACTIVITY - Windows Internet Explorer'. The URL bar shows 'http://10.138.8.192:9080/dev/servlet/BrowserServlet?Legend\_Account Closure'. The page content includes a 'New Arrangement' tab and an 'Audit' tab. The 'New Arrangement' section shows details for arrangement 'AA13274QW/HBW', customer '100334', product 'OTHER LOAN / INDIVIDUAL', and currency 'JOD Jordanian Dinar'. The 'Account Closure' section is active, showing a table with columns: Activity, Action, Closure Type, Closure Period, Closure Method, Posting Restrict, Closure Activit.1, Reserved4, and Reserved3. The table contains one row: 'Activity' is 'LENDING-NEW-ARRANGEMENT', 'Action' is 'UPDATE', 'Closure Type' is 'Balance', 'Closure Period' is '1D', 'Closure Method' is 'Automatic', 'Posting Restrict' is '90', 'Closure Activit.1' is 'Automatic Closing', 'Reserved4' is empty, and 'Reserved3' is empty. The 'Reason' field is empty. The bottom of the page has a navigation bar with links like 'Customer', 'Account Officers', 'Limit', 'Account Closure', 'Account', 'Commitment', 'Principal Interest', 'Penalty Interest', 'New Arrangement Fee', 'DISBURSEMENTFEE', 'Payment Reschedule fee', 'Principal Decrease Fee', 'Payoff Fee', 'PRECLOSUREFEE', 'Collateral Change fee', 'INSTALMENT POSTPONEMENT CHARGE', 'INSTALMENT RESCHEDULEMENT FEE', 'OVERDUE CHARGE', 'LIFE INSURANCE FEE', 'PREPAYMENTFEE', 'CHANGETERMFEE', 'AMOUNTINCREASEFEE', 'RENEWALFEE', 'RESCHEDULEFEE', 'Schedule', 'Activity Charge Mapping', 'Activity Messaging', 'Balance Maintenance', 'Payoff property', 'Settlement Instructions', and 'Alerts'.

## Arrangement Architecture Product Setup & Technical Guide

AA ARRANGEMENT ACTIVITY - Windows Internet Explorer

http://10.138.8.192:9080/dev/servlet/BrowserServlet#1

New Arrangement AACT13274MBB57Y56 (Head Office)

Accept Overrides

- Allowed variance COMMITMENT actual variance AMOUNT, INCREASE
- Percentage Range is less than 100
- Incomplete Disbursement Schedule
- Settlement A/C 1000002026 does not belong to Arrangement Customer 100334
- Unauthorised overdraft of JOD 15000 on account 1000010703.

New Arrangement | Audit

Arrangement: AA13274QW/HBW | Customer: 100334 | IYYAPAPN

Product: OTHER LOAN / INDIVIDUAL | Variation: | Currency: JOD | Jordanian Dinar

Pricing: | Pricing Plan: | Effective: 01 OCT 2013

Activity: NEW ACTIVITY FOR ARRANGEMENT

Reason:

Customer | Account Officers | Limit | Account Closure | Account | Commitment | Principal Interest | Penalty Interest | New Arrangement Fee | DISBURSEMENT FEE | Payment Reschedule fee | Principal Decrease Fee | Payoff Fee | PRECLOSURE FEE | Collateral Change fee | INSTALMENT POSTPONEMENT CHARGE | INSTALMENT RESCHEDULEMENT FEE | OVERDUE CHARGE | LIFE INSURANCE FEE | PREPAYMENT FEE | CHANGETERM FEE | AMOUNT INCREASE FEE | RENEWAL FEE | RESCHEDULE FEE | Schedule | Activity Charge Mapping | Activity Messaging | Balance Maintenance | Payoff property | Settlement Instructions | Alerts

Customer

Owner.1: 100334 | IYYAPAPN

Primary Owner: 100334 | IYYAPAPN

Other Party.1: |

After committing the record,

AA ARRANGEMENT ACTIVITY - Windows Internet Explorer

http://10.138.8.192:9080/dev/servlet/BrowserServlet#1

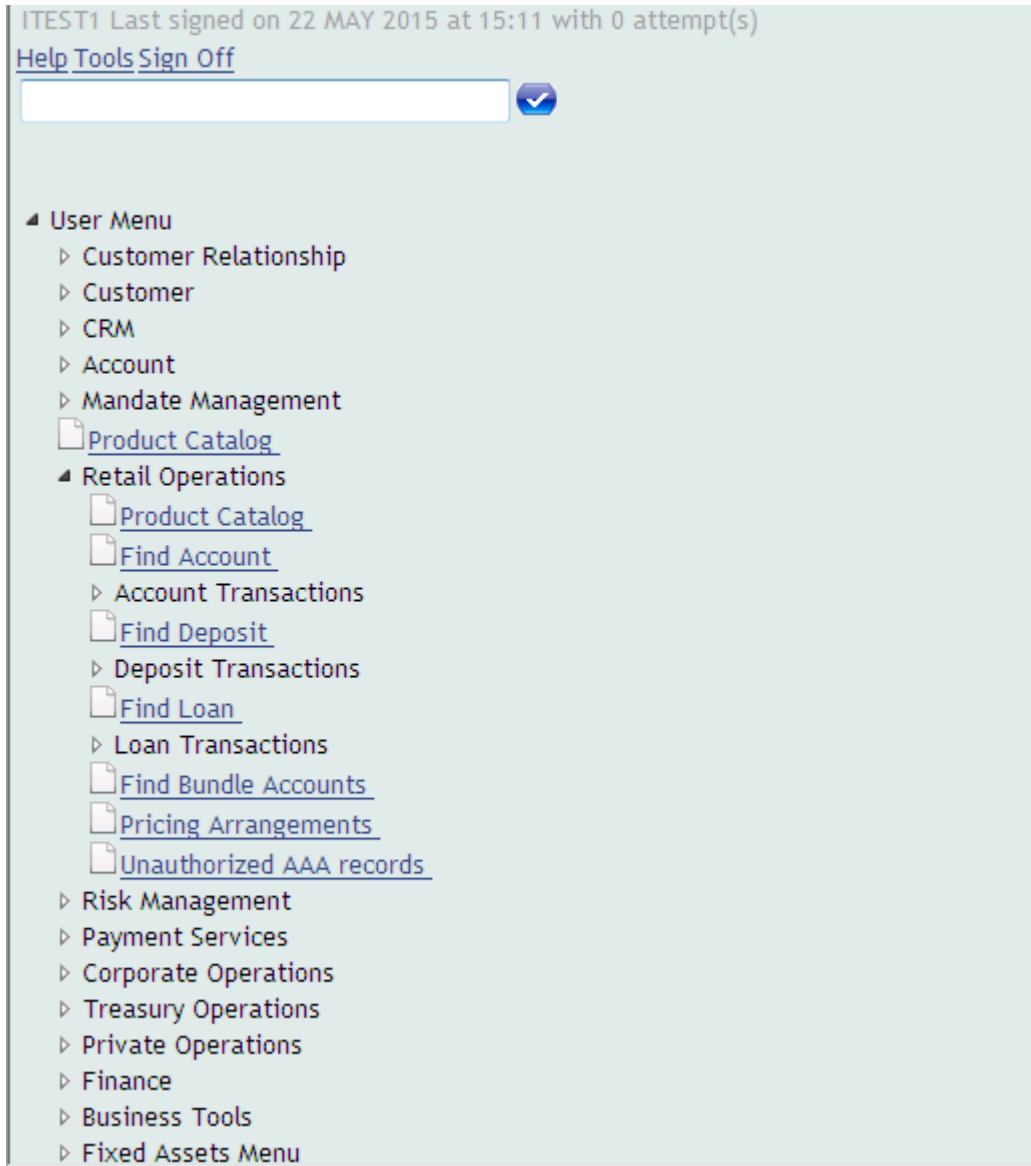
New Arrangement | (Head Office)

Txn Complete: AACT13274MBB57Y56 16:21:11 22 MAY 2015 AA.ARRANGEMENT.ACTIVITY, AA.NEW I

### 6.2 Find AA Loan / Authorize the AA Loan

Once Commit the AA record and find the loan/ authorize the record.

Click user Menu - > Find Loan



Select Unauthorized AAA tab,

Input the Arrangement id - AA13274QWHBW

AA Arrangement - Head Office - Windows Internet Explorer

File Edit Tools Help

Authorised Unauthorised Pending New Offers Matured / Closed

Favourites

Find Unauthorized Lending [More Options](#) [Clear Selection](#) Find

Arrangement equals AA13274QWHBW

Owner equals

Product Group equals

Product equals

Currency equals

JO0010001 : AA.FIND.ARRANGEMENT.NAU.AL

AA Arrangement - Head Office - Windows Internet Explorer

http://10.138.8.192:9080/dev/servlet/BrowserServlet

Authorised Unauthorised Pending New Offers Matured / Closed

Results 1 - 1 of 1

Arrangement	Account	Description	Owner	Status
AA13274QWHBW	1000010703	OTHER LOAN / INDIVIDUAL	IYTEST	Unauthorised

## 7. Commonly used Insert file and common variables in AA

These insert files and common variable are used to find the AA record details.

### 7.1 Insert Files

```
$INSERT I_F.AA.INTEREST
$INSERT I_F.AA.TERM.AMOUNT
$INSERT I_F.AA.ACTIVITY.HISTORY
$INSERT I_F.AA.ARRANGEMENT.ACTIVITY
$INSERT I_AA.LOCAL.COMMON
$INSERT I_AA.APP.COMMON
$INSERT I_F.AA.PRODUCT
$INSERT I_AA.ACTION.CONTEXT
$INSERT I_F.AA.TERM.AMOUNT
$INSERT I_F.AA.LIMIT
```

## 7.2 Common Variables

Find below the common variables of **I\_F.AA.LOCAL.COMMON**,

```

10138.169-23 - Tera Term VT
File Edit Setup Control Window Resize Help
File T24.BP , Record 'I_AA.LOCAL.COMMON'
Command->
0001 *
0002 * Insert file for named commons that can be used in the
0003 * local routine developed for AA. Local routines can be
0004 * attached at various places in AA framework like pre and post
0005 * routine before and after an action, charge routine, payment
0006 * calculation routine
0007 * These common variables are equivalent of core AA common variable
0008
0009 COMMON/AALOCALCOMMON/c_aalocArrId, /* Arrangement id
0010 c_aalocArrangementRec, /* Main arrangement record
0011 c_aalocArrProductId, /* Stores the product used by the arrangement
0012 c_aalocArrCurrency, /* Store the currency used by the arrangement
0013 c_aalocActivityId, /* Activity id loaded in the property
0014 c_aalocTxnReference, /* Arrangement activity transaction reference
0015 c_aalocCurrAction, /* Current action being processed by action manager
0016 c_aalocArrActivityRec, /* Current arrangement activity record
0017 c_aalocLocalRefList, /* List of local ref fields
0018 c_aalocCurrActivity, /* User/System generated activities
0019 c_aalocLinkedAccount, /* Linked Account id
0020 c_aalocProductRecord, /* Stores the published product record for the arrangement
0021 c_aalocPropClassId, /* Property class ID of current property
0022 c_aalocPropertyId, /* Current property
0023 c_aalocProdPropRec, /* Stores the published product property for the arrangement
0024 c_aalocActivityStatus, /* Stores the status of current activity like . UNAUTH, DEL, REV-DEL
0025 c_aalocArrActivityId, /* Store the arrangement activity id
0026 c_aalocActivityEffDate, /* Effective date
0027 c_aalocAccountDetails, /* Account Details
0028 c_aalocForwardDelCond, /* If user deleted the condition dynamically then system will set this flag in all the stages
0029 c_aalocMasterActivity, /* Master activity Id if required for local routines
0030 c_aalocReserved5,
0031 c_aalocReserved4,
0032 c_aalocReserved3,
0033 c_aalocReserved2,
0034 c_aalocReserved1,
0035
0036
0037 -----
0038 ----- End Of Record -----

```

Find below the common variables of **I\_F.AA.APP.COMMON**

```

File Edit Setup Control Window Resize Help
File T24.BP , Record 'I_AA.APP.COMMON'
Command->
0001 COMMON/AAAPP/AA$PROPERTY.CLASS.ID, /* Property class ID of current property
0002 AA$PROPERTY.CLASS.REC, /* Property class record of current property
0003 AA$PRODUCT.ARR, /* Flag to indicate if we are processing PROD or ARRangement level
0004 AA$RULE.TYPE, /* Array of rule types associated with each field
0005 AA$MAND, /* Mandatory indicator P (Mand Prod), A (Mand Arr) and negotiable opt
0006 AA$FIELD.ACTIVITY, /* Field activities allowed
0007 AA$FIELD.DATA.TYPE, /* Array of field types associated with each field
0008 AA$DATED.ID, /* Property Id is dated
0009 AA$CCY.ID, /* Property Id contains Ccy
0010 AA$OPT.CCY.ID, /* Property Id can be without Currency, this is valid for charge property alone
0011 AA$MULTI.PROPERTY, /* Multiple Properties allowed per product
0012 AA$CUST.ID, /* Customer level id
0013 AA$ARR.ID, /* Arrangement Id
0014 AA$R.ARRANGEMENT, /* Main Arrangement Record
0015 AA$PROP.EFF.DATE, /* The effective of the current property being processed
0016 AA$PROPERTY.ID, /* Current property
0017 AA$PREV.PROD.PROP.REC, /* Stores the previous product property record during CHANGE.PRODUCT activity
0018 AA$OVERRIDE.LIST, /* Default field override list
0019 AA$ARR.LINK.TYPE, /* Link between arrangement and product property
0020 AA$ARR.PRODUCT.ID, /* Stores the Product used by the arrangement
0021 AA$ARR.CURRENCY, /* Stores the Currency used by the arrangement
0022 AA$ARR.CHANGED.FIELDS, /* Stores the list of changed fields on an arrangement property record
0023 AA$ORIGINAL.FUNCTION, /* During authorisation and deletion this common will store the record function from
0024 AA$PRODUCT.RECORD, /* Stores the published Product record for the arrangement
0025 AA$PROD.PROP.RECORD, /* Stores the Published product property for the arrangement
0026 AA$ARR.PC.ID, /* Full property class id
0027 AA$ACTIVITY.ID, /* Activity id, loaded in the property templates
0028 AA$ACTIVITY.EFF.DATE, /* Activity Effective date, loaded in the property templates
0029 AA$ARRANGEMENT.STATUS, /* Arrangement status record
0030 AA$TXN.REFERENCE, /* Arrangement Activity transaction reference - for accounting entries, etc
0031 AA$CURR.ACTION, /* Current action being processed by Action manager
0032 AA$R.ARRANGEMENT.ACTIVITY, /* Current Arrangement Activity record
0033 AA$XREF.ID.REQD, /* If Xref Id is required, flag this
0034 AA$LOCAL.REF.LIST, /* Local Reference items
0035 AA$ASSOC, /* AA association for a field
0036 AA$F, /* AA F array
0037 AA$FNO, /* AA Field number for array
0038 AA$N, /* N Array
0039 AA$T, /* T Array
0051 AA$MASTER.ACTIVITY, /* It contains Master Activity ID and name (Seperated by VM), that is, topmost activ

```



## Arrangement Architecture Product Setup & Technical Guide

```

10.138.8.169:23 - Tera Term VT
File Edit Setup Control Window Resize Help
File T24.BP , Record 'I_AA.APP.COMMON' Insert 12:56:33
Command->
0035 AA$ASSOC, /* AA association for a field
0036 AA$F, /* AA F array
0037 AA$FNO, /* AA Field number for array
0038 AA$N, /* N Array
0039 AA$T, /* T Array
0040 AA$CHECKFILE, /* CHECKFILE array
0041 AA$RULE.TYPE, /* Rules allowed for the field
0042 AA$ACTIVITY, /* Activity allowed for field
0043 AA$CURR.ACTIVITY, /* User/System generated activities
0044 AA$LINKED.ACCOUNT, /* Linked Account ID
0045 AA$NEW.ARRANGEMENT, /* Flag to indicate if the current activity is a new arrangement activity
0046 AA$PREV.PROP.REC, /* Stores the previous version of current property record
0047 AA$PROPERTY.CLASS.LIST, /* List of properties and its property classes for the arrangement
0048 AA$RENEWAL.ACTIVITY, /* Flag to indicate if the current activity is a Renewal Activity.
0049 AA$PROPERTY.NEW, /* Holds the New Records of the properties executed in the current activity
0050 AA$PROPERTY.OLD, /* Holds the Old Records of the properties executed in the current activity
0051 AA$MASTER.ACTIVITY, /* It contains Master Activity ID and name (Seperated by VM), that is, topmost activ
0052 AA$SOURCE.DETAILS, /* To Hold Property, Source Type & Balance(s) for an arrangement to reuse. 1 - Arran
0053 AA$RESTORE.ARRANGEMENT, /* Flag to indicate if the current activity is account restoration activity.
0054 AA$PREV.RECORD, /* stores the previous record
0055 AA$ACCR.DETS /* <1> contains Interest properties & <2> their corresponding last accrued date
0056
0057 OPTION.LIST = ''
0058 REQUIRED.OPTION = ''
0059 DEFFUN OPTION.SELECTED(OPTION.LIST, REQUIRED.OPTION)
0060
0061 EQU AASSEP TO "-" /* Id separator in the applications
0062 EQU AASOVE.SEP TO "|" /* Convert delimiters in override and error from this
0063 EQU AASARRANGEMENT TO 1 /* Arrangement level
0064 EQU AASPRODUCT TO 2 /* Product designer level
0065 EQU AASPUBLISH TO 3 /* Product publisher level
0066 EQU AASPROOF TO 4 /* Product proofing level
0067 EQU AASAPPROVAL TO 5 /* Arrangement approval level
0068 EQU AASDESIGNER TO 6 /* The actual product.designer (currently, we need this only to write out to the dat
0069 EQU AASSIMULATION TO 7 /* Simulation level
0070
0071 EQU AASSTAGE TO 1 /* Position where we specify the stage of the file that we require, possible values
0072 EQU AASPROP.CLASS TO 2 /* Position where we specify the property class - AA$PROPERTY.CLASS.ID
0073 EQU AASSTD.START.FLD.POS TO 3 /* Stores the actual start field position common to Pr
0085

```

AA ARRANGEMENT ACTIVITY - Windows Internet Explorer

http://10.138.8.192:9080/dev/servlet/Servlet#1

New Arrangement [AAACT13274MBB57Y56] (Head Office)

Accept Overrides

- Allowed variance COMMITMENT actual variance AMOUNT.INCREASE
- Percentage Range is less than 100
- Incomplete Disbursement Schedule
- Settlement A/C 1000002026 does not belong to Arrangement Customer 100334
- Unauthorised overdraft of JOD 15000 on account 1000010703.

Arrangement	AA13274QWHBW	Customer	100334	YYYAPAPN	
Product	OTHER LOAN / INDIVIDUAL	Variation		Currency	JOD Jordanian Dinar
Pricing		Pricing Plan			
Activity	NEW ACTIVITY FOR ARRANGEMENT	Effective	01 OCT 2013		
Reason					

Customer | Account Officers | Limit | Account Closure | Account | Commitment | Principal Interest | Penalty Interest | New Arrangement Fee | DISBURSEMENT FEE | Payment Reschedule fee | Principal Decrease Fee | Payoff Fee | PRECLOSURE FEE | Collateral Change fee | INSTALMENT POSTPONEMENT CHARGE | INSTALMENT RESCHEDULEMENT FEE | OVERDUE CHARGE | LIFE INSURANCE FEE | PREPAYMENT FEE | CHANGETERM FEE | AMOUNT INCREASE FEE | RENEWAL FEE | RESCHEDULE FEE | Schedule | Activity Charge Mapping | Activity Messaging | Balance Maintenance | Payoff property | Settlement Instructions | Alerts

Customer

Owner.1 100334 YYYAPAPN

Primary Owner 100334 YYYAPAPN

Other Party.1

c\_aalocArrProductId - The above contract shows product id is "OTHER LOAN/INDIVIDUAL"

c\_aalocArrCurrency - Currency "JOD"

c\_aalocActivityId - Activity ID "AAACT13274MBB57Y56"

c\_aalocLinkedAccount - Linked acc no - "1000010703"

c\_aalocArrId - Arrangement ID "AA13274QWHBW"

c\_aalocActivityStatus - Like "UNAUTH", "REVERSE", "DELETE", "AUTH"

c\_aalocPropertyId - Like "PRININTEREST"

c\_aalocPropClassId - Like "TERM.AMOUNT"

Likewise, above mentioned AA Insert files are having many common variables.

### 7.3 Property Classes

For reading the AA record is different from the normal read command (CALL F.READ()), Initially we need to get the Arrangement ID.

Mostly used property classes are,

- CLOSURE
- CUSTOMER
- INTEREST
- LIMIT
- TERM.AMOUNT
- OFFICERS
- PERIODIC.CHARGES
- SETTLEMENT
- BALANCE.MAINTENANCE
- CHARGE.OVERRIDE
- CHARGE

## 8 AA at routine level

Initially get the Arrangement Id to process the Property class find below details of the routine,

### 8.1 Core APIs

The following APIs may be utilized when certain information's are required in a local routine:

- **AA.GET.ARRANGEMENT.CONDITION**
  - This routine can be used by any application to retrieve the property conditions that apply to an arrangement for a particular effective date (default value is TODAY).
  - The specific property or property class required must be supplied
  - The records and ids for the property conditions that apply are returned
  - No. of arguments passed – 7

Parameter type	Name	Description
IN (Mandatory)	idArrangementComp	The Id of the arrangement for which property condition is requested.
IN (Optional)	idPropertyClass	Property class for which property details are sought. If the class contains multiple properties in this arrangement, system returns the records for all properties
IN (Optional)	idProperty	Specific property for which details are sought. If class is not supplied, property must be stated.
IN (Optional)	effectiveDate	The date for which property details are sought. If the property record does not have a record on that date, the past record nearest to that date

		is returned. If a date is not supplied, TODAY would be assumed.
OUT	returnIds	List of property Ids for this class separated by FMs
OUT	returnConditions	List of property records – lowered to be in sync with Ids
OUT	returnError	Errors if any during the processing

- **AA.GEN.ARRANGEMENT.ACTIVITY.FIELDS**

- This method maps the arrangement properties, its field name and its value to new arrangement activity record
- Values can be supplied to arrangement property conditions from AA.ARRANGEMENT.ACTIVITY record while triggering an activity
- No. of arguments passed – 4

Parameter Type	Name	Description
IN(Mandatory)	Property list	List of property names of the arrangement whose values are supplied. Properties are separated by value markers
IN(Mandatory)	Field name list	List of field names for each of the properties whose values are supplied. For a property the field names are separated by sub value markers
IN(Mandatory)	Field value list	Actual values for the list of fields for each of the arrangement properties. For a property the field values are separated by sub value markers
OUT	ARR ACT Fields record	The formatted arrangement activity record

- **AA.GEN.NEW.ARRANGEMENT.ACTIVITY**

- This method appends the new arrangement activity as the secondary activity to the parent activity
- No. of arguments passed – 7

Parameter Type	Name	Description
IN(Mandatory)	Arrangement Id	The arrangement id reference
IN(Mandatory)	Secondary activity	New secondary activity name to be triggered.
IN(Mandatory)	Effective date	Effective date of the activity
IN(Mandatory)	Txn Details	The arrangement product that is effective on the date passed for this arrangement
IN(Mandatory)	Parent activity id	The list of properties that are eligible for this product(separated by VMs)
IN(Mandatory)	Arrangement activity rec	New arrangement activity record
OUT	Return error	Error message if any

- **AA.GET.ECB.BALANCE.AMOUNT**

- This method returns the total balance amount for a given balance type on a given date for an account arrangement
- No. of arguments passed – 5

Parameter Type	Name	Description
IN(Mandatory)	Account Id	The account number of the arrangement
IN(Mandatory)	Balance type	The balance type for which the balance is sought.
IN(Mandatory)	Request date	Date for which balance is sought
OUT	Balance amount	The balance amount as in EB.CONTRACT.BALANCES as on the requested date. If the balance type is virtual then sum of all the virtual balance is returned
OUT	Return error	Error if any

### 8.2 Reading the property class

Initially get the arrangement using common variable – “c\_allocArrId” and read the AA.ACTIVITY.HISTORY table to get the Arrangement Activity id.

Used common variables are – “c\_allocArrId”, “c\_allocActivityEffDate”

The below routine used the Core API – AA.GET.ARRANGEMENT.CONDITIONS to read and write the AA record.

Total Arguments - 7

Passed Arguments are – Arrangement ID, Prop class, Property, R.Conditions and Err message.

### 8.3 RAISE Conditions

**RAISE(R.CONDITION)** is used to get the values for the defined property class “TERM.AMOUNT”.

The below routine to get the Amount, tenor, and maturity date of the Term amount property class values.

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```
ARRANGEMENT.ID = c_aalocArrId
CALL F.READ(FN.AA.ACTIVITY.HISTORY,ARRANGEMENT.ID,R.AA.ACTIVITY.HISTORY,F.AA.ACTIVITY.HISTORY,AA.ACTIVITY.HISTORY.ERR)

LOCATE "LENDING-NEW-ARRANGEMENT" IN R.AA.ACTIVITY.HISTORY<AA.AH.ACTIVITY,1,1> SETTING ACT.POS THEN
  Y.AA.ACT.ID = R.AA.ACTIVITY.HISTORY<AA.AH.ACTIVITY.REF,1,ACT.POS>
  CALL F.READ(FN.AA.ARRANGEMENT.ACTIVITY,Y.AA.ACT.ID,R.AA.ARRANGEMENT.ACTIVITY,F.AA.ARRANGEMENT.ACTIVITY,ARR.ACT.ERR)
  Y.EFF.DATE = R.AA.ARRANGEMENT.ACTIVITY<AA.ARR.ACT.EFFECTIVE.DATE>

  Y.TERM.AMOUNT.ID = ARRANGEMENT.ID:"-COMMITMENT-":Y.EFF.DATE:".1"
  CALL F.READ(FN.AA.TERM,Y.TERM.AMOUNT.ID,REC.TERM.AMT,F.AA.TERM,ERR.AA.TERM)
  Y.AMOUNT = REC.TERM.AMT<AA.AMT.AMOUNT>
  Y.TENOR = REC.TERM.AMT<AA.AMT.TERM>
  Y.MAT.DATE = REC.TERM.AMT<AA.AMT.MATURITY.DATE>
END ELSE

  Y.EFF.DATE = c_aalocActivityEffDate
  PROP.CLASS = "TERM.AMOUNT"
  PROPERTY = ''
  R.CONDITION = ''
  ERR.MSG = ''

  CALL AA.GET.ARRANGEMENT.CONDITIONS(ARRANGEMENT.ID,PROP.CLASS,PROPERTY,'','',R.CONDITION,ERR.MSG)
  R.CONDITION = RAISE(R.CONDITION)
  Y.AMOUNT = R.CONDITION<AA.AMT.AMOUNT>
  Y.TENOR = R.CONDITION<AA.AMT.TERM>
  Y.MAT.DATE = R.CONDITION<AA.AMT.MATURITY.DATE>
END
```

Using this we can get the records for the tables or any property class

### 8.4 Common variables

Below Common variables are used to check the conditions,

```
IF VS$FUNCTION EQ 'I' AND c_aalocPropertyId EQ "PRININTEREST" THEN
  *1975 - S
  IF CALC.ARATE THEN
    GOSUB APR.OVERRDE
  END
  *1975 - E
END

IF c_aalocActivityStatus EQ 'AUTH' AND c_aalocPropertyId EQ "PRININTEREST" THEN
  GOSUB CREATE.CONCAT
END
```

### 8.5 Select Command in the AA record

The below example is used to select the AA Bill record by using the Core API – AA.GET.BILL.ID  
Total Passed Arguments - 8

```
SEL.BILL:
*****|

CALL AA.GET.BILL.ID(ARRANGEMENT.ID, 'NEW', PAYMENT.DATE, BILL.DATE, 'DUE', PAYMENT.METHOD, BILL.IDS, RETURN.ERROR)
LOOP
  REMOVE Y.AA.BILL.ID FROM BILL.IDS SETTING BILL.ID.POS
  WHILE Y.AA.BILL.ID:BILL.IDS.POS
    GOSUB READ.BILL.DETAILS
  REPEAT
RETURN
```

## 9 Updating fields in AA

### 9.1 Authorizing the record

For updating fields, use below logic, instead of using F.WRITE api,

R.AA.ACC.RECORD<AA.AC.LOCAL.REF,Y.RESTRUCT.DATE.POS,Y.CNT+1> = TODAY  
R.AA.ACC.RECORD<AA.AC.LOCAL.REF,Y.END.DATE.POS,Y.CNT+1> = Y.DATE

The below condition is used to check the status of the record ,

REQD.PROCESS = c\_arrActivityStatus["-",1,1]

REQD.PROCESS EQ 'UNAUTH' then

Below API “AA.ACTION.LIST.MANAGER” is used to “APPEND” the fields like OFS process.

CALL AA.ACTION.LIST.MANAGER("APPEND", "", "", "")

```
MSG.SYNTAX = "OFS":FM:"FIRST":FM:"BUILD"
RECORD.ERRORS = ""
RECORD.OVERRIDES = ""
OFS.PROCESS = 'PROCESS'
UPDATE.FUNCTION = "I"

CALL AA.ACTION.LIST.MANAGER("INIT", "", "", "")
CALL AA.PROCESS.CONTRACT(OFS.PROCESS, MSG.SYNTAX, "AA.ARR.ACCOUNT", Y.AA.ACC.ID, UPDATE.FUNCTION, R.AA.ACC.RECORD, RECORD.ERRORS, RECORD.OVERRIDES, RET.ERR)
CALL AA.ACTION.LIST.MANAGER("APPEND", "", "", "")
```

## Note:

Use AA.ACTION.LIST.MANAGER api only for updating the fields in AA and for other applications, use F.WRITE.

## 9.2 Updating existing record

The below logics are used to updating the existing records,

REQD.PROCESS = c\_arrActivityStatus["-",1,1]

REQD.PROCESS EQ 'AUTH' then

CALL AA.ACTION.LIST.MANAGER("INSERT", "", "", "")

Below API “AA.ACTION.LIST.MANAGER” is used to “INSERT” the fields like OFS process.

```
IF REQD.PROCESS EQ 'AUTH' THEN

  PROP.CLASS = 'ACCOUNT'
  PROP.NAME = ''
  returnConditions = ''
  RET.ERR = ''
  CALL F.READ(FN.AA.ARRANGEMENT,ARRANGEMENT.ID,R.AA.ARRANGEMENT,F.AA.ARRANGEMENT,ERR.AA.ARRANGEMENT)
  Y.EFFEC.DATE = R.AA.ARRANGEMENT<AA.ARR.START.DATE>
  CALL AA.GET.ARRANGEMENT.CONDITIONS(ARRANGEMENT.ID,PROP.CLASS,PROP.NAME,Y.EFFEC.DATE,returnIds,returnConditions,E)
  R.AA.ACC.RECORD = RAISE(returnConditions)
  Y.AA.ACC.ID = R.AA.ACC.RECORD<AA.AC.ID.COMP.1>-'-':R.AA.ACC.RECORD<AA.AC.ID.COMP.2>-'-':R.AA.ACC.RECORD<AA.AC.ID.COMP.3>

1-Overview -S
  MSG.SYNTAX = "OFS":FM:"FIRST":FM:"BUILD"
  RECORD.ERRORS = ""
  RECORD.OVERRIDES = ""
  OFS.PROCESS = 'PROCESS'
  UPDATE.FUNCTION = "A"

  CALL AA.ACTION.LIST.MANAGER("INIT", "", "", "")
  CALL AA.PROCESS.CONTRACT(OFS.PROCESS, MSG.SYNTAX, "AA.ARR.ACCOUNT", Y.AA.ACC.ID, UPDATE.FUNCTION, R.AA.ACC.RECORD, RECORD.ERRORS, RECORD.OVERRIDES, RET.ERR)
  CALL AA.ACTION.LIST.MANAGER("INSERT", "", "", "")

END
```

### 9.3 Updated Restructure date & End date below

http://10.138.8.192:9080/dev/servlet/BrowserServlet#1

AA.ARR.ACCOUNT AA132742P93D-ACCOUNT-20131001.2 (Head Office)

Activity	LENDING-AUTO.DISBURSE-COMMITMENT	
Action.1	UPDATE	
Category	3109	Personal Loans
Currency	JOD	Jordanian Dinar
Currency Market	1	Currency Market
Account Title 1	Personal Loans	
Short Title	Personal Loan	
Alt Id Type.1	LEGACY	
Alt Id Type.2	IBAN	
Alt Id Type.3	T24.IBAN	
Position Type	TR	TRADING POSITION
Base Date Type	Agreement	
Anniversary	01 OCT	01 OCT
Account Reference	1000010614	
Date Convention	Backward	
Date Adjustment	Value	
Bus Day Centres.1	JO	
Passbook	No	
L Restruct Date.1	01 OCT 2013	01 OCT 2013
L End Date.1	01 OCT 2014	01 OCT 2014
Changed Fields.1	LOCAL.REF-5	
Changed Fields.2	LOCAL.REF-6	
Negotiated Flds.1	ALT.ID	
Negotiated Flds.2	ANNIVERSARY	
Negotiated Flds.3	PASSBOOK	

## 10 T24 Browser Level debug in TAFJ for AA routine

### 10.1 Browser Listener

Initially start the browser. Listener in the Eclipse then input the contract in the T24 Browser.

If the routine is attached, then during the respective activity, routine is triggered which is attached (like POST, PRE and Validation routine) in the products setup.

### 10.2 Variables Tab

Below the AA Routine triggered for the respective AA activity.  
Already mentioned the AA common variable in the section- 7.2

AA Variables and Values:

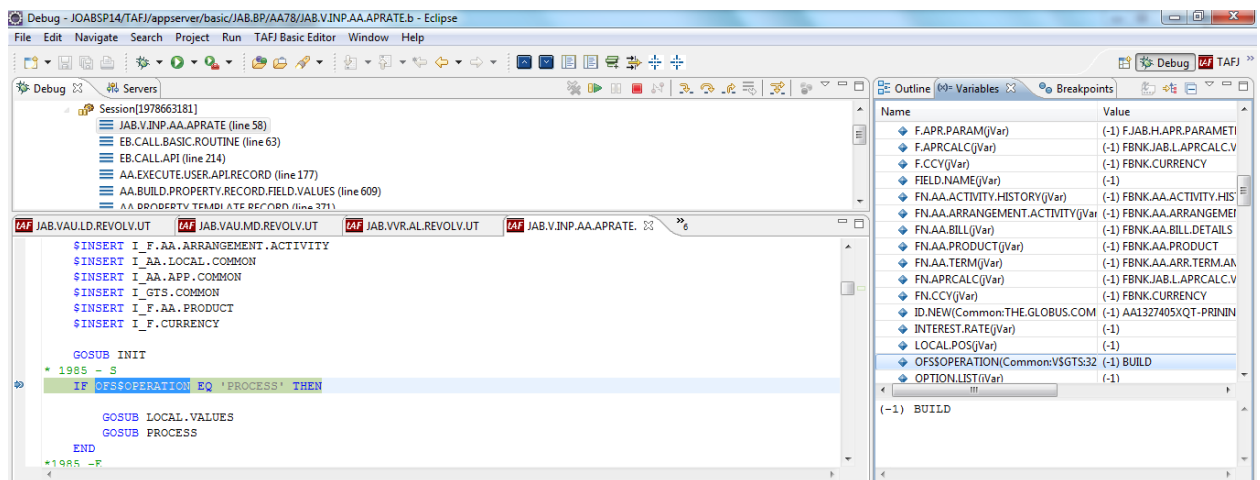
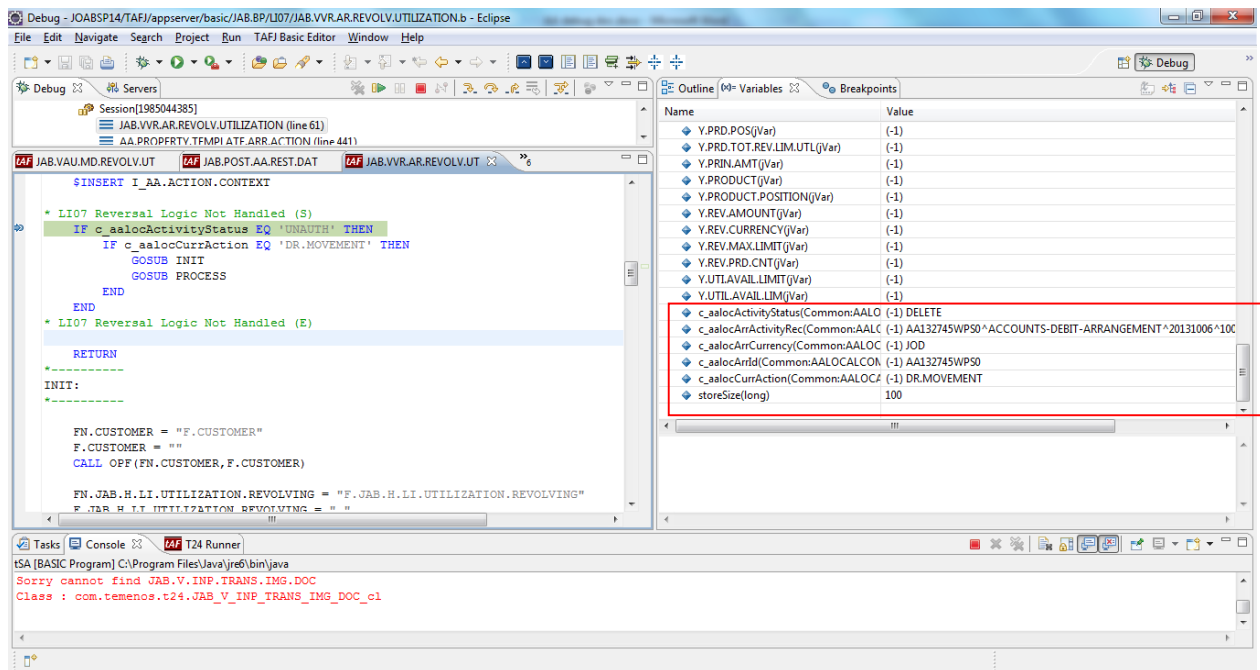
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In the variables tab, find the values of the AA common variables,

For Ex:

c\_aalocActivityStatus - DELETE  
c\_aalocCurrAction - DR.MOVEMENT.  
c\_aalocArrCurrency - JOD  
c\_aalocPropertyId - PRININTEREST  
c\_aalocArrProductId - JAB.LENDING

While processing batch in COB/ONLINE, Activity Status is like UNAUTH or DELETE.



Below screenshot shows the common variable values of Arrangement ID, Product ID, Property ID, Currency and Status of AA contract.



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