iDempiere Fixed Asset User Manual

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Version	0.1

Introduction

The iDempiere Fixed Asset extension package is developed based on the work of these three remarkable men:

- 1. Robert Klein, who developed the first ever Fixed Assets extension for Compiere
- 2. Teo Sarca, who modernized Robert Klein's work to use Adempiere more modern document structure. His work was however not properly documented and was influenced with his country local requirement.
- 3. Redhuan D. Oon (Red1), who took the work published by Teo Sarca, created the migration scripts from the 2Pack, and done some stabilization work. However Red1 somehow mixed Klein's solution to Teo Sarca's which made the design somehow inconsistent.

This work was started from where red1 left. I have spent considerable hours try to understand all those three men's design consideration. Somehow, I decided to recover to Teo Sarca's core design and done the work to (1) repair bad codes and AD Configuration, (2) remove – what I thought was – localization codes and AD Configuration, and (3) add missing code and AD Configuration.

After many many test iterations and two installation observations, I am confident that I have achieved a certainly working package. Hence this is the FA version 1.0.

What functionality that can be expected in this FA v1.0:

- 1. Asset Addition from Match Invoice
- 2. Asset Addition from Import Asset
- 3. Asset Addition from Manual
- 4. Asset Addition from Project
- 5. Asset Depreciation using Straight Line Depreciation Method
- 6. Asset Disposal
- 7. Each document: Asset Addition, Asset Depreciation, and Asset Disposal can generate their own accounting facts

What should not be expected:

- 1. Asset Transfer
- 2. Asset Split
- 3. Asset Revaluation
- 4. Asset Financing
- 5. Asset Depreciation using other Depreciation method
- 6. Asset First Year Convention Method and Asset Depreciation Calculation Method are not yet developed.

Installation Note:

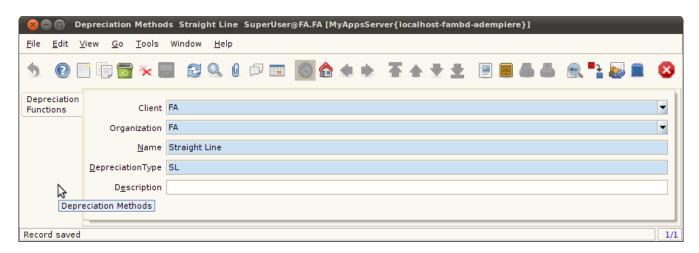
- 1. Please use Adempiere 360 LTS or GlobalQSS Adempiere 361. I have tested with various version of GlobalQSS Adempiere 361. The only issue i've met is after the introduction of migration script 845_IDEMPIERE-255.sql. That script add a new mandatory column "Name" to AD_PrintFormatItem_Trl which cause issue when running the FA migration scripts.
- 2. Please use PostgreSQL database. I am using PostgreSQL and tested it all on PostgreSQL. I have provided the Oracle migration scripts but I believe there should be some minor fix to the Oracle migration scripts. I haven't have the time to fix it now. Any help would be very much appreciated.

Fixed Assets

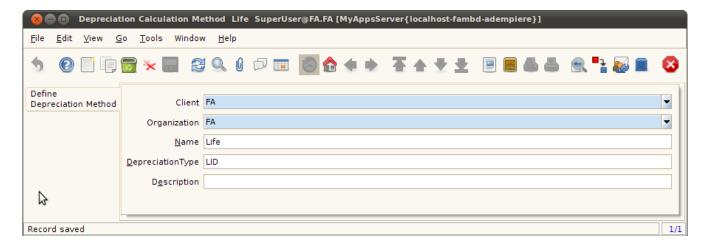
Setup

Below are the setup required:

Setup Depreciation Method.
 Only "Straight Line" is currently developed. Make sure to use "SL" as value in column DepreciationType.

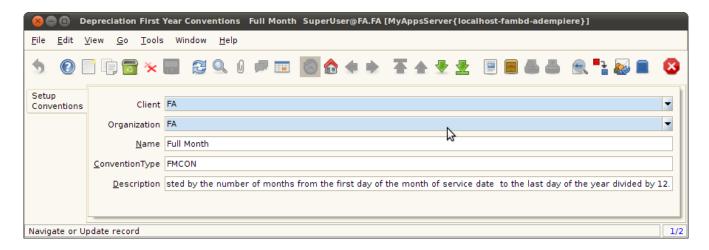


2. Setup Depreciation Calculation Method
Depreciation Calculation Method is a mandatory field dated back to Robert Klein's FA. This is
not currently supported. Hence - for the time being – just create a record to fulfill the mandatory
requirement.



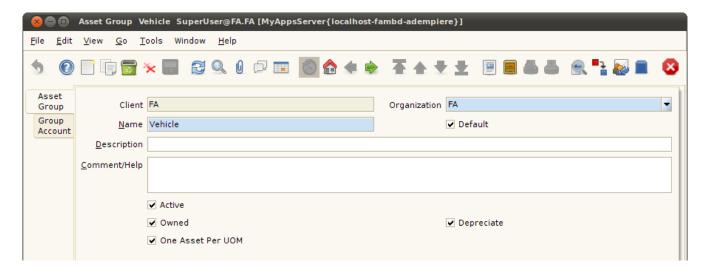
3. Setup Depreciation First Year Convention

Depreciation First Year Convention is also a mandatory field dated back to Robert Klein's FA. This is not currently supported. Hence - for the time being – just create a record to fulfill the mandatory requirement.



4. Setup Asset Group

Asset Group is where the default setup for asset is derived. Entry the Asset Group name and tick Owned and Depreciate. Note that there is a Default flag. When you tick it, this Asset Group Accounting information will become Default for all other new Asset Group.



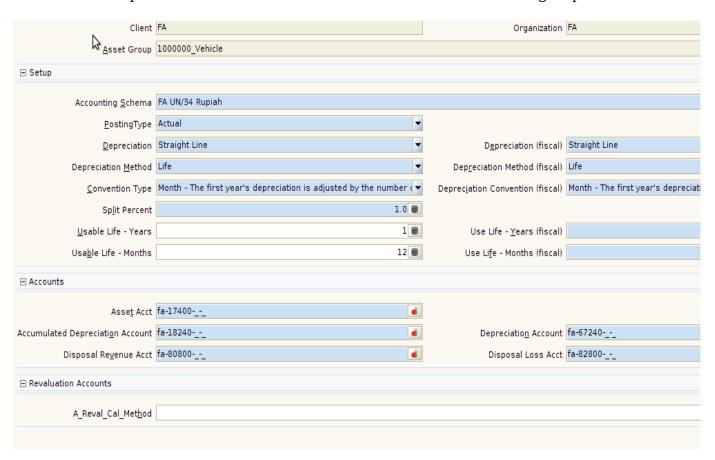
5. Setup Asset Group Acct

This is where you set all parameters related to Depreciation calculation and all those Accounting account configurations. Some explanation of the columns:

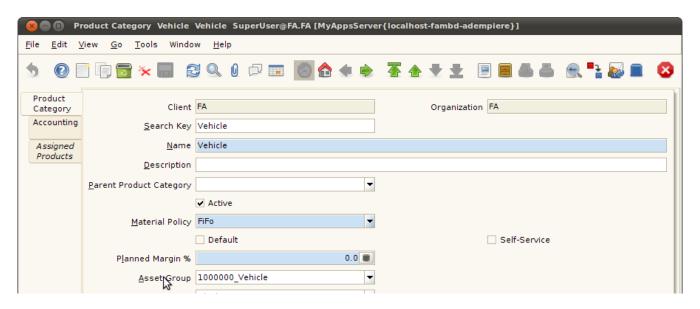
- Accounting Schema: for most users, surely you will only have one default accounting schema. But for some who utilize more than one accounting schema, this means that you can have different depreciation method and different account values for different accounting schema.
- Posting Type: "Actual" for operational uses
- Depreciation: currently only Straight Line is supported
- Depreciation (Fiscal): this is inherited from Teo Sarca. I found no use of it, but someone

might have a use case for different Depreciation method for fiscal reasoning

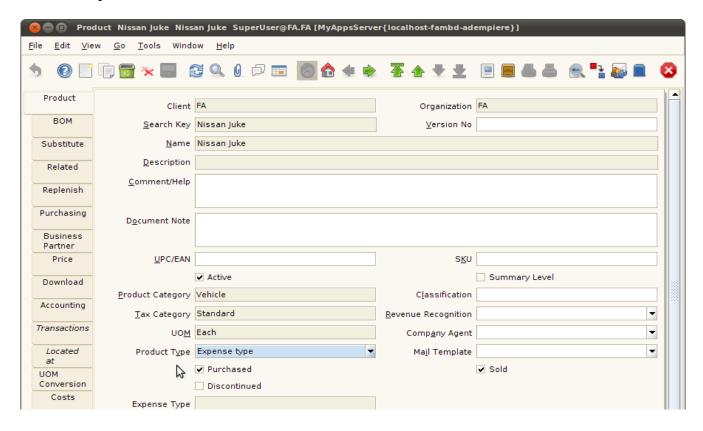
- Depreciation Method: this is currently not implemented yet
- Depreciation Method (Fiscal): refer to above explanation about fiscal
- Convention Type: this is currently not implemented yet
- Convention Type (Fiscal): refer to above explanation about fiscal
- Split Percent: this is for asset split functionality. Currently not supported.
- Usable Life Years: asset usable life (in years)
- Usable Life Years (fiscal): asset usable life (in years) refer to above explanation about fiscal.
- Usable Life Months: asset usable life (in months)
- Usable Life Months (fiscal): asset usable life (in months) refer to above explanation about fiscal
- Asset Acct: the valid combination account for recording Asset value
- Accumulated Depreciation Acct: the valid combination account use for recording Accumulated Depreciation
- Depreciation Acct: the valid combination account use for recording Depreciation Expense.
- Disposal Revenue Acct: the valid combination account use for recording Disposal Revenue
- Disposal Loss Acct: the valid combination account use for recording Disposal Loss



6. Setup Product Category
Asset Group must be paired with Product Category. Create a product category for each asset group and set the Asset Group value.



7. Setup Product



Asset are instances of Product. Hence, we need to setup a Product to become base for the Asset.

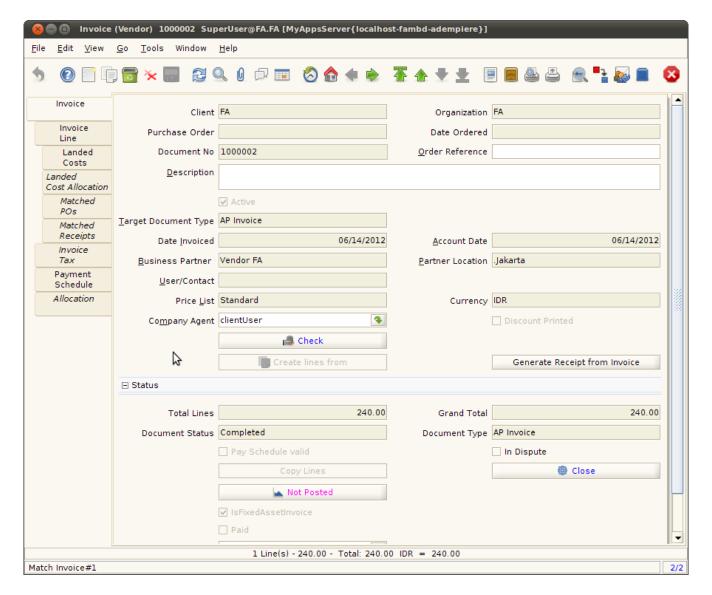
Two important column to be noticed are:

- Product Category: you must set the appropriate Product Category that has been paired with a certain Asset Group.
- Product Type: you must not use "Item". Either "Expense" or Resource is recommended.

Asset Addition

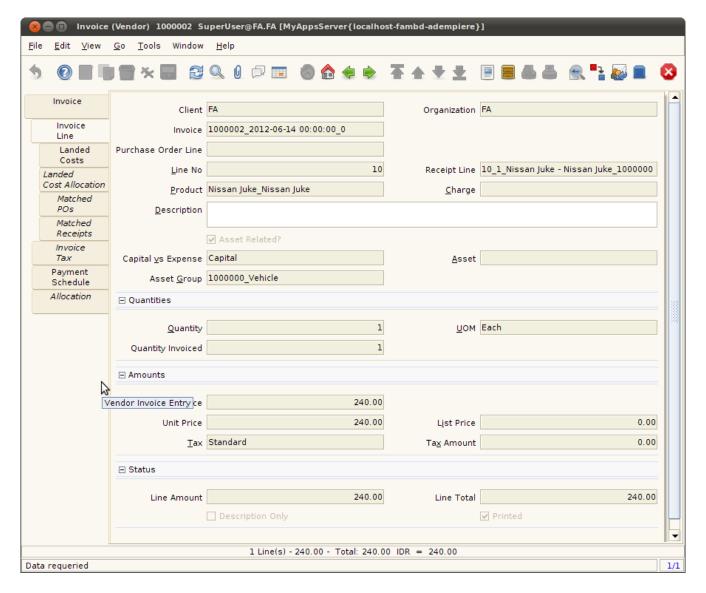
The window: Asset Addition is the main interface for recording new asset into iDempiere. There are four method for Asset Addition:

Asset Addition from Match Invoice
 The first method is addition from Procurement flow.

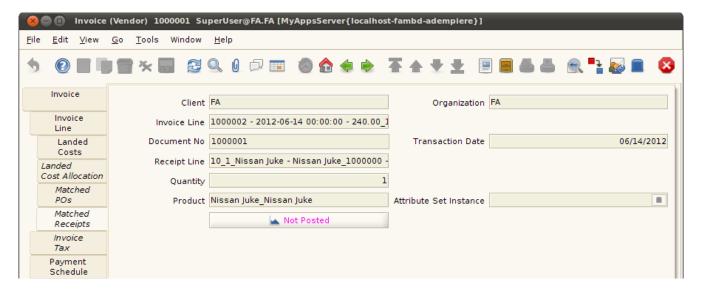


The step by step instructions are:

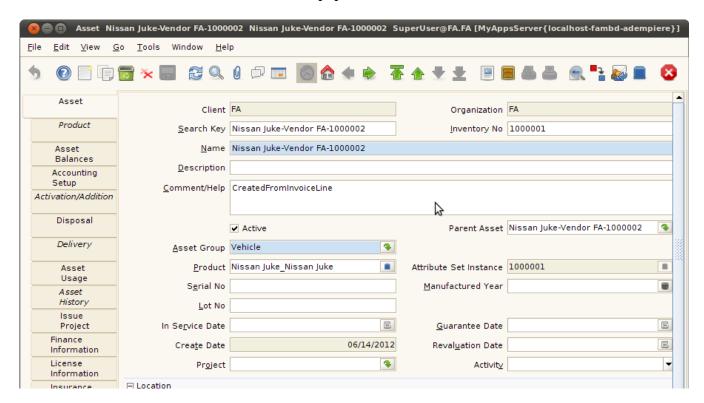
- First, you must create a Material Receipt document using the asset base Product.
- Upon completion of Material Receipt, go to Invoice (Vendor) and use the "Create Lines From" to automatically create Match Invoice during completing Invoice.
- Then, go to Invoice Line. You should notice that the "Asset Related?" flag is ticked. Select "Capital" value on field "Capital vs Expense" and you'll see the related Asset Group value on field "Asset Group".
- Complete the Invoice.

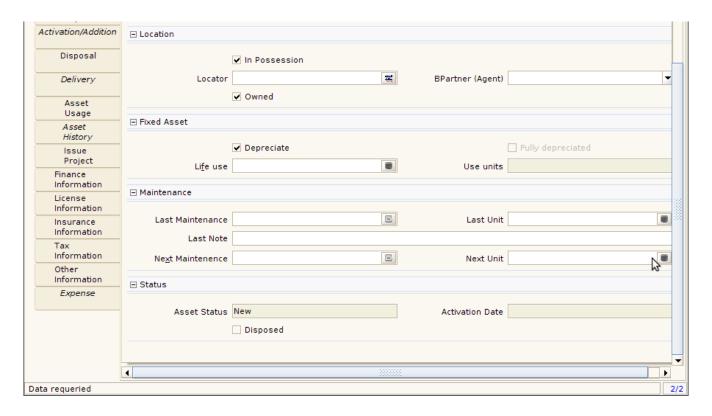


• If you are using "Create Lines From", iDempiere will automatically generate and complete Match Invoice document.



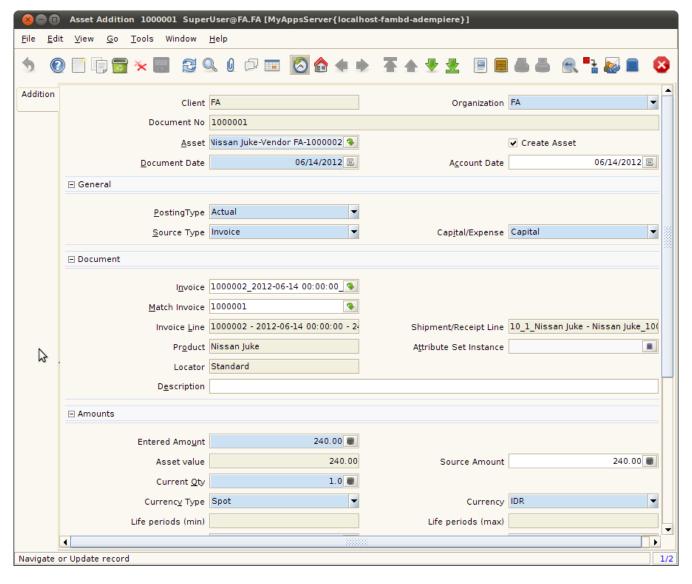
- When Match Invoice document is completed, a new asset record and a new asset addition record will be automatically generated.
- If you check to the Asset window, you can find the newly generated Asset with autogenerated value and name with format: Product Vendor BP Invoice Document No.
- One important check is the Asset Status and Activation Date. The Asset Status must be "New" and Activation Date must be null.
- When the Asset Addition is completed, the Asset Status will be updated to "Activated" and the Activation Date will be populated.





- Go to Asset Addition window. Check the newly created Asset Addition window. Some important fields are:
 - Asset: this is the asset name
 - Create Asset: leave this flag. It is for [need more explanation here]
 - Document Date: this will be asset in-service date.
 - Account Date: as in other iDempiere documents. This is for fact accounting date
 - Posting Type: "Actual"
 - Source Type: "Import", "Match Invoice", "Manual", and "Project"
 - Capital/Expense: "Capital" will add Asset value, while "Expense" will not do that.
 "Expense" will only add a reference record that that particular asset is linked to the specified expense.
 - Invoice: related invoice
 - Match Invoice: related match invoice
 - Invoice Line: related invoice line
 - Shipment/Receipt Line: related receipt line
 - Product: the asset base product
 - Entered Amount: the entered amount
 - Source Amount: the amount in the original currency
 - Asset Value: the converted amount in functional currency
 - Current Qty: qty of asset. Must be 1 (one).
 - Currency: the transaction currency
 - Currency Type: the currency conversion type
 - Delta Use Life Years: the asset life years
 - Adjust Accumulated Depreciation: flag to adjust accumulated depreciation

- Accumulated Depreciation: the accumulated depreciation amount
- Accumulated Depreciation (fiscal): the accumulated depreciation amount (fiscal)
- Period Start: Depreciated Period + 1



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Enter Query View Result							
Organization	Account	Accounted Debit	Accounted Credit	Product	Business Partner	Α	
FA	17400 - Vehicles	240.00	0.00	Nissan Juke - Nissan Juke			
FA	14120 - Product asset	0.00	240.00	Nissan Juke - Nissan Juke	Vendor FA		
		240.00	240.00				

- When asset addition document is completed, several fields are updated in window Asset:
 - Tab "Asset"
 - In Service Date: the same as Asset Addition document date

Asset Status: "Activated"

Activation Date:

Processed: flag ticked

- Tab "Product": an instance of the base product will be created and recorded here.
- Tab Asset Balances: here you can check the asset values, asset salvage value,
- Tab Expense: When completing Asset Addition, the process will create proposed Asset Depreciation Entries for the asset. Upon addition, you can check if the depreciation entries has been properly inserted.
- The fact accounting entries generated are:
 - Asset (DR)
 - if value of C Project ID on related C InvoiceLine ID is not null then:
 - Project Acct (CR), else
 - Product Asset (CR)

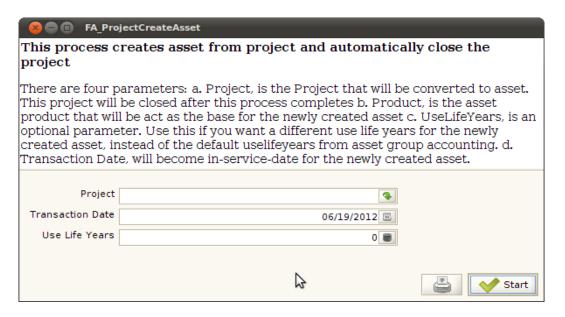
2. Asset Addition from Import Asset

This is basically utilizing iDempiere Import File Loader feature. The steps are:

- Prepare your import data in a text file
- o Import it to window Imported Fixed Assets
- Verify and process the import

If you are not missing any mandatory fields, the asset and respective Asset Addition should be created. Note that no fact accounting entries will be generated in Asset Addition if the source is "Import". Hence, you must create additional GL Journal for the fact entries.

3. Asset Addition from Project I have added a process: "Create Asset from Project".



Use this process to create any Open Project as new Asset. The process will generate Asset and Asset Addition document and directly complete the Asset Addition document. In the end, it will close the respective project. The fact accounting entries generated are:

- Asset (DR)
- Project Acct (CR)

4. Asset Addition (manual)

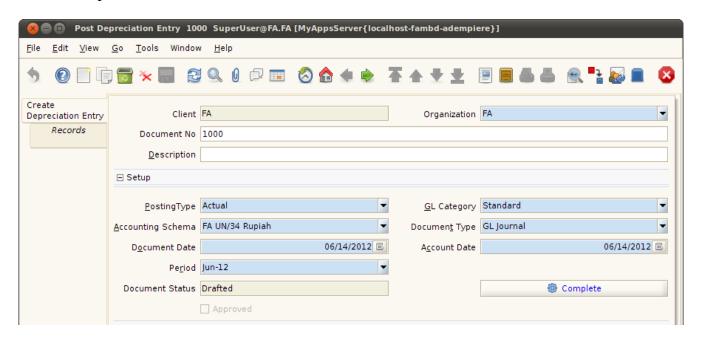
Manual means, you create the Asset manually on window Asset. Then create the Asset Addition document manually. Select Source Type "Manual" and select the appropriate "Charge". The fact accounting entries generated are:

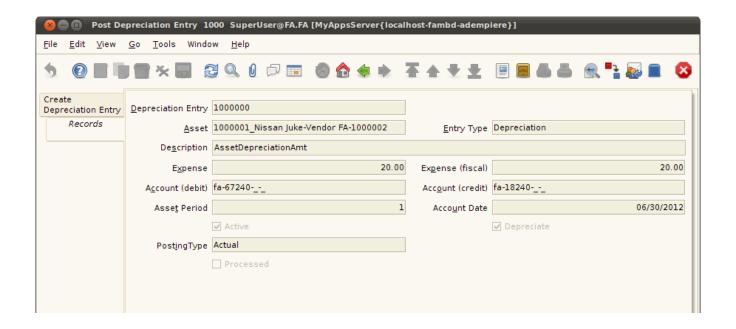
- Asset (DR)
- Charge (CR)

Asset Depreciation

These are the steps to perform asset depreciation:

- Create new record on window Process Depreciation
- Entry those mandatory fields.
- When saving, the depreciation records will automatically populated with all unprocessed depreciation entries. So after saving, you can see all unprocessed depreciation entries at Process Depreciation >> Records.
- Complete the document.





Upon completion, you can check at window Assets >> Asset Balances, the Accumulated Depreciation, Remaining Amt, and Current Period has been updated. Further checking, go to Assets >> Expense and check that the depreciation entries for the related period has been marked as Processed.

The accounting facts are:

Account Viewer							
Enter Query View Result							
Organization	Account	Accounted Debit	Accounted Credit	Product	Business Partner		
FA	67240 - Vehicles Depreciation	20.00	0.00				
FA	18240 - Vehicles Accumulated Depreciation	0.00	20.00				
		20.00	20.00				

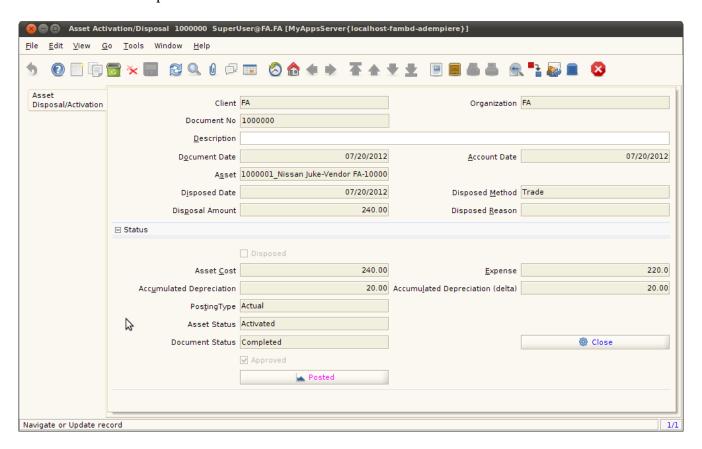
Asset Disposal

Note: You cannot dispose an asset on period where it has been depreciated. e.g. You have completed a depreciation document which include Asset A on period Jun 2012. You cannot dispose Asset A on period Jun 2012. A validation will stop you.

These are the steps to perform asset disposal:

- Create new Asset Disposal record on window Asset Activation/Disposal
- Select the Asset. Upon selection, the callout will populate Asset Cost, Accumulated Depreciation, Expense, Accumulated Depreciation (delta) and Asset Status
- Entry the disposed date
- Entry disposed method and disposed reason. Currently these two column is for reference only. It has no processing impact

• Save and complete the record



Upon completion, status of the asset will be updated to "Disposed". The accounting facts are:

