

# ***Writing Java applications for Teamcenter Engineering***

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B/E Aerospace

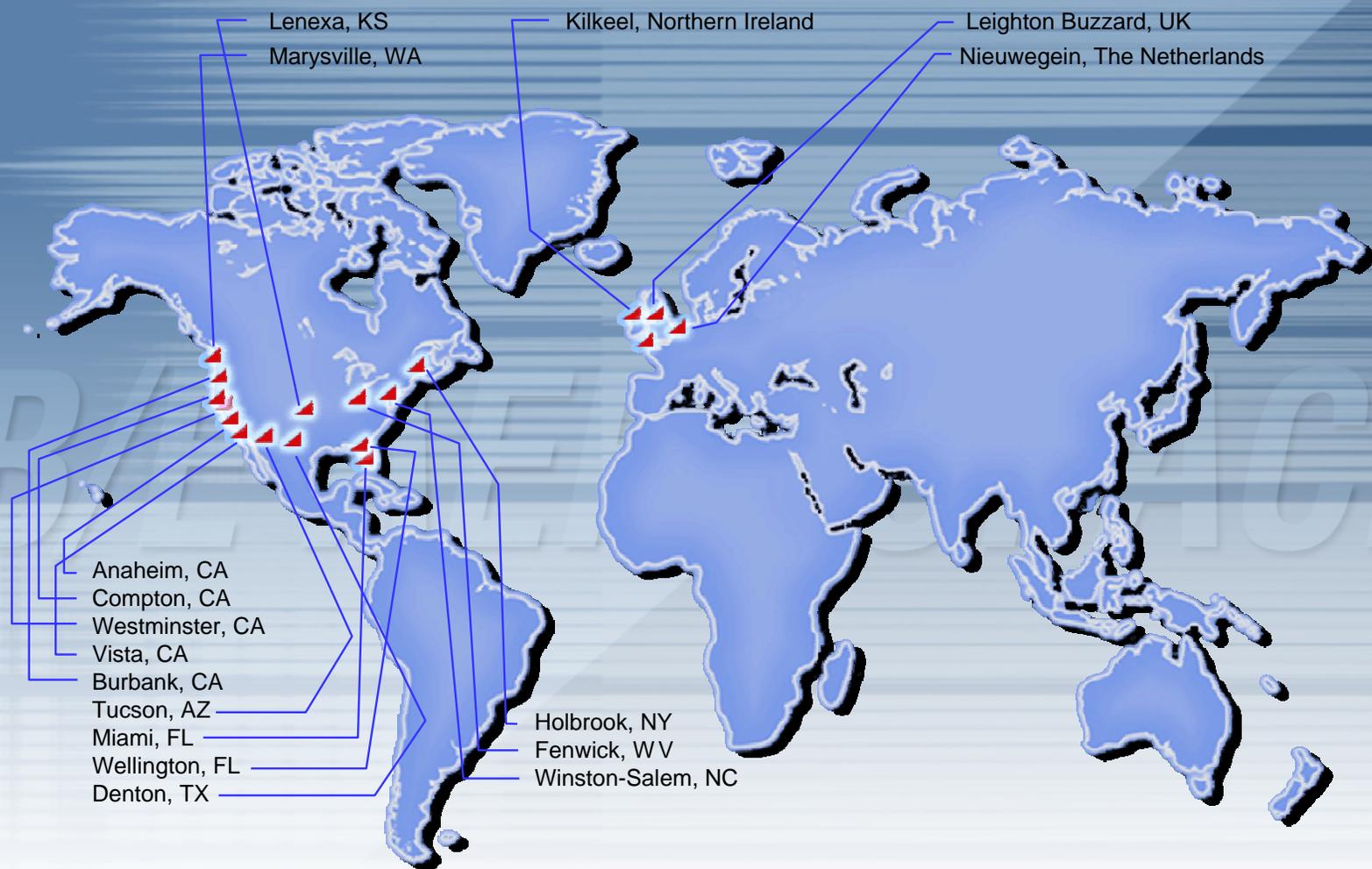


A complete array of aircraft interior products...



B/E Aerospace brings it all together...





# B/E World Wide



# Record Backlog!

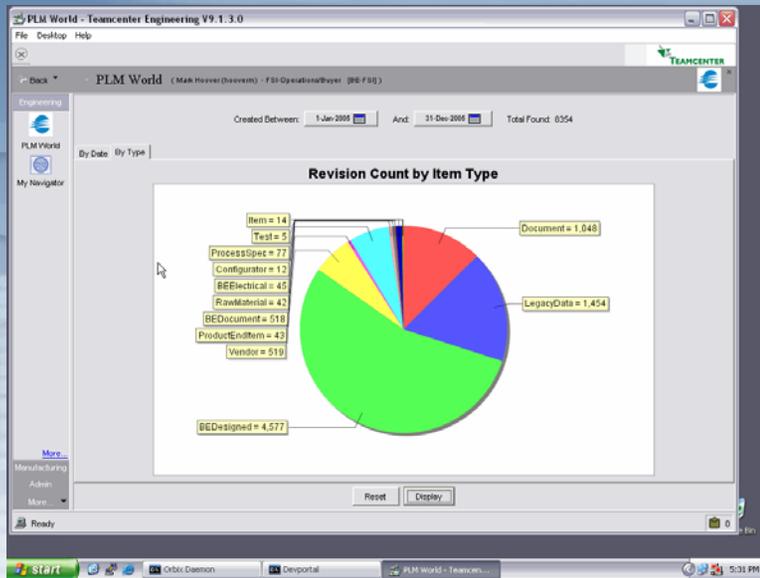
February 03, 2006 02:00 AM US Eastern Timezone

**B/E Aerospace Reports Fourth Quarter 2005 Financial Results; Record Revenues of \$223 Million up 18 Percent, Diluted EPS of \$0.96; Record Backlog Reaches \$1.1 Billion**

WELLINGTON, Fla.--(BUSINESS WIRE)--Feb. 3, 2006--B/E Aerospace, Inc. (Nasdaq:BEAV), the world's leading manufacturer of aircraft cabin interior products and a leading aftermarket distributor of aerospace fasteners, today announced fourth quarter and full year financial results for 2005.



# The End Game



# My Thesis

- Creating Java Applications for TCEng is useful.
- These Apps can add significant value to TC.
- The process is straightforward.
- Open Source tools are valuable.



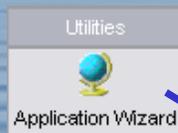
# The Technologies in Play

- Teamcenter Engineering 9.1.3.x
- Java1.3.1-b24
- Jakarta POI 2.5.1 - *For Native Excel output*
- JFreeChart 1.0.0 - *For Charting*
- JCommon 1.0.0 - *For Chart support*



# The Application Wizard

## Step 1



From the Utilities Group

Application Title

Application Icon

A screenshot of the Application Wizard Step 1 dialog box. It contains two text input fields. The first field is labeled "What is the title of your application?" and the second field is labeled "What is your application's icon?". Both fields are highlighted in yellow.

What is the title of your application?

What is your application's icon?



# The Application Wizard

## Step 2

Group

Tooltip

Rollover Icon

Select which group your application will be part of from the panel to the left?

What is the Tool-Tip for your application?

What is your application's rollover icon?



# The Application Wizard

## Step 3

Package Name  
Package Location  
Associated Session

What is the package name of your application?

What is the package location of your application?

What session is associated with your application?



# The Application Wizard

## Step 4

Class Name  
Panel Class Name  
Menubar Class Name  
Toolbar Class Name

What is the Class Name of your Application?

What is the Class Name of your Application Panel?

What is the Class Name of your Application Menubar?

What is the Class Name of your Application Toolbar?



# The Application Wizard

## Step 5

Are you ready??

OK to create the new application?

Yes

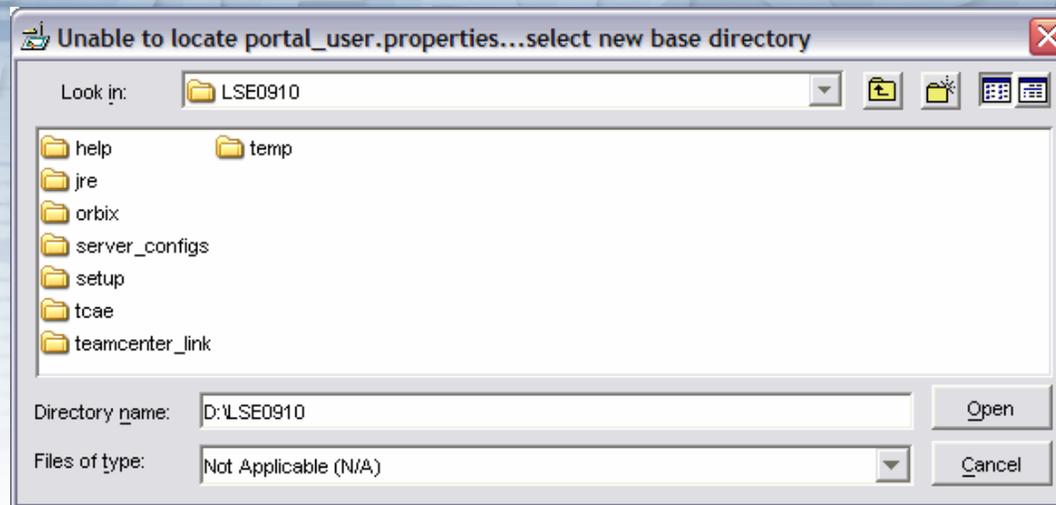
- Creating Package
- Creating Class Files
- Creating Application Registry Files
- Registering Application with AIF
- Inserting Application within Group
- Finished...Compile your new application files and you are ready to run!



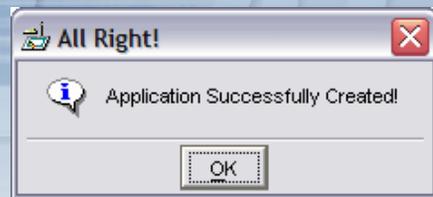
# The Application Wizard

## Step 6

The wizard needs to know where your portal\_user.properties file is located.



# The Application Wizard Completed



Oooohhh



# portal\_user.properties

`MyApp.TITLE=PLM World`

`MyApp.TIP=Tools for Reporting Data`

`MyApp.ICON=images/myapp.gif`

`MyApp.ROLLOVERICON=images/myapprollover.gif`

`MyApp.SESSION=com.ugsolutions.iman.kernel.IMANSession`

You also want to add:

`App.PANEL=org.plmworld.app.AppPanel`



# portal\_user.properties

**IMAN.APPLICATIONS=...**

And

**IMAN\_CS.APPLICATIONS=...**

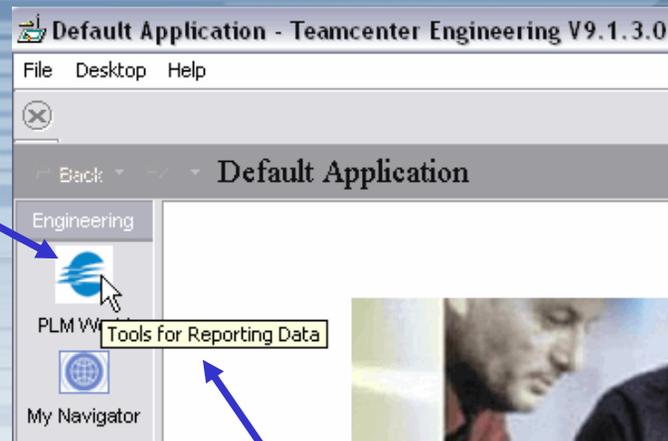
Will be appended with:

**org.plmworld.app.MyApp**



# The Application in the Engineering group

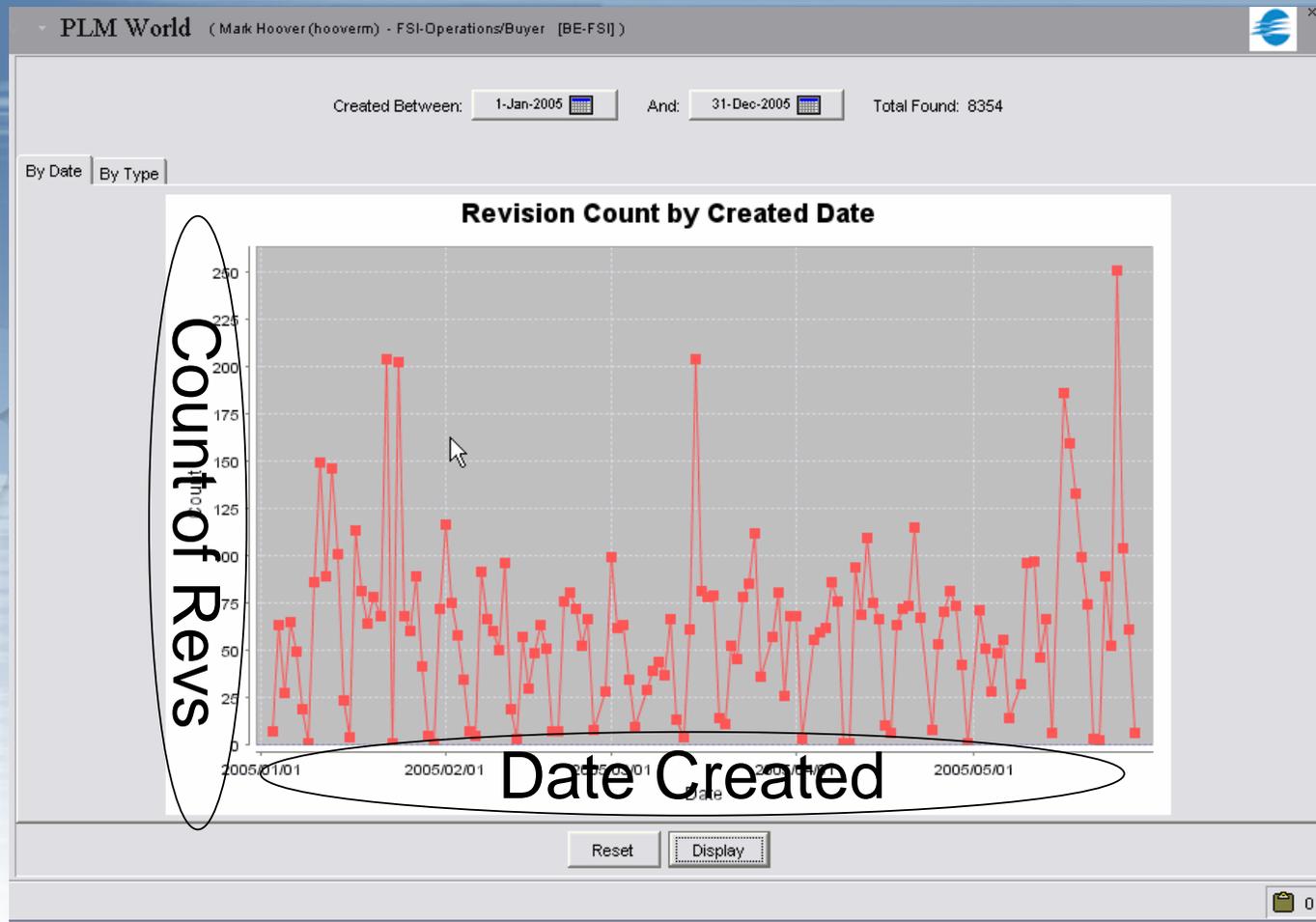
Icon



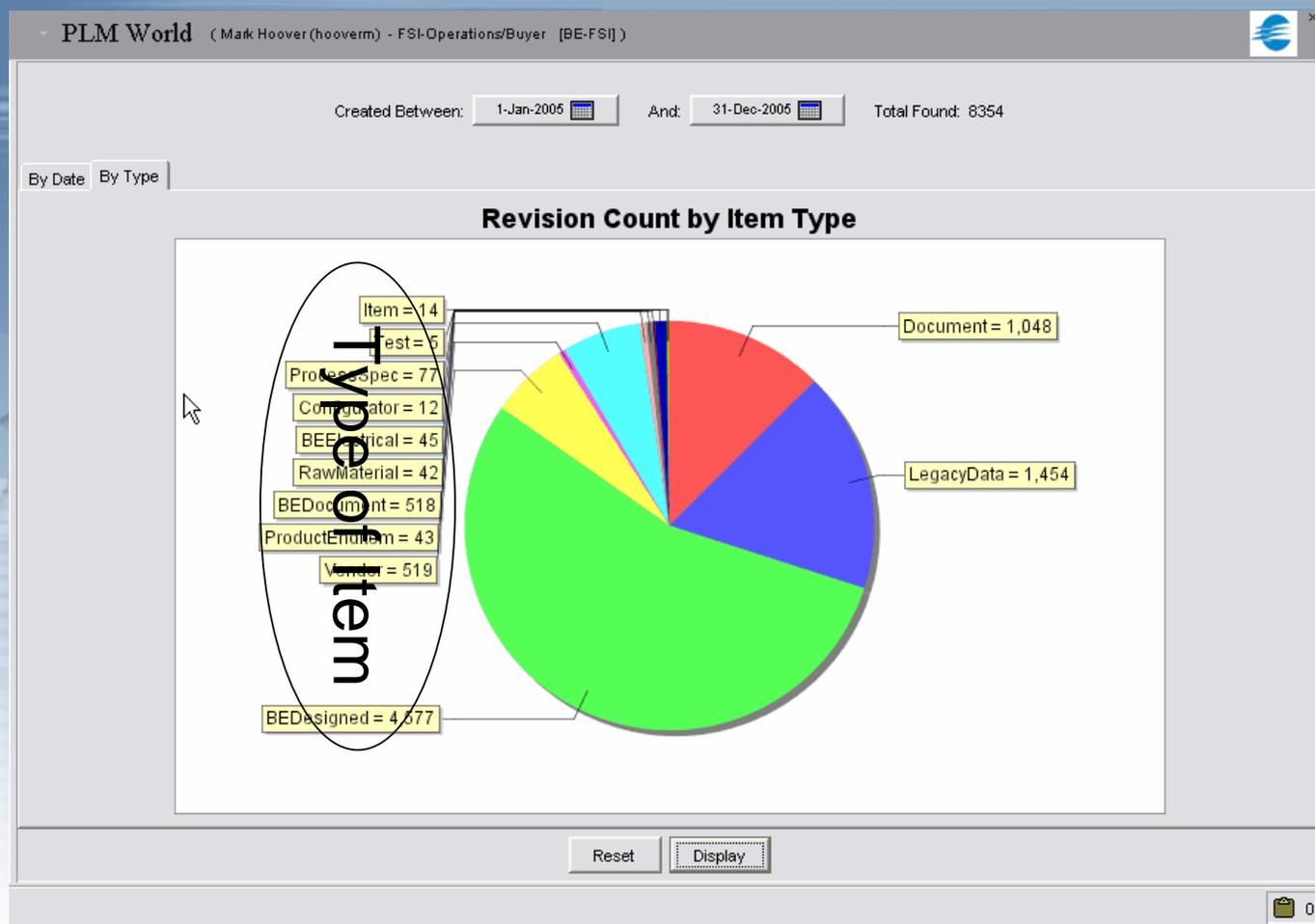
Tool Tip



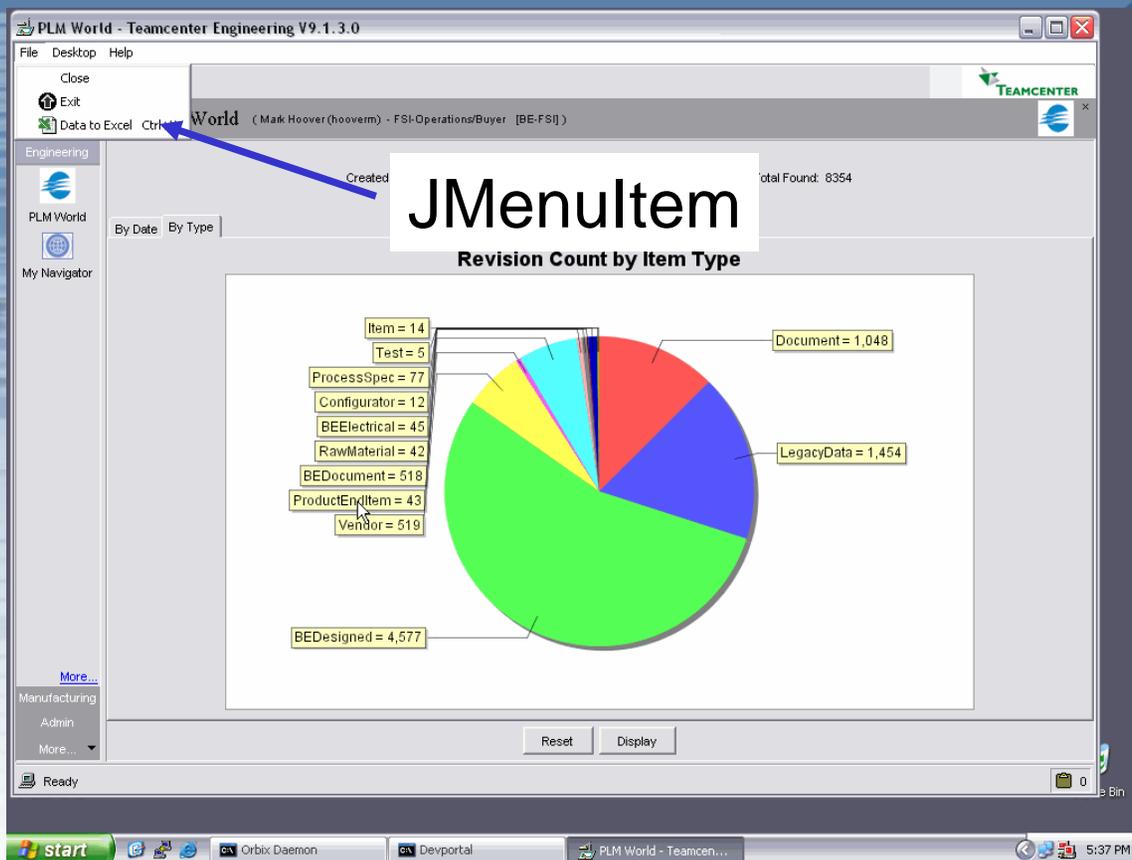
# JFreeChart By Date



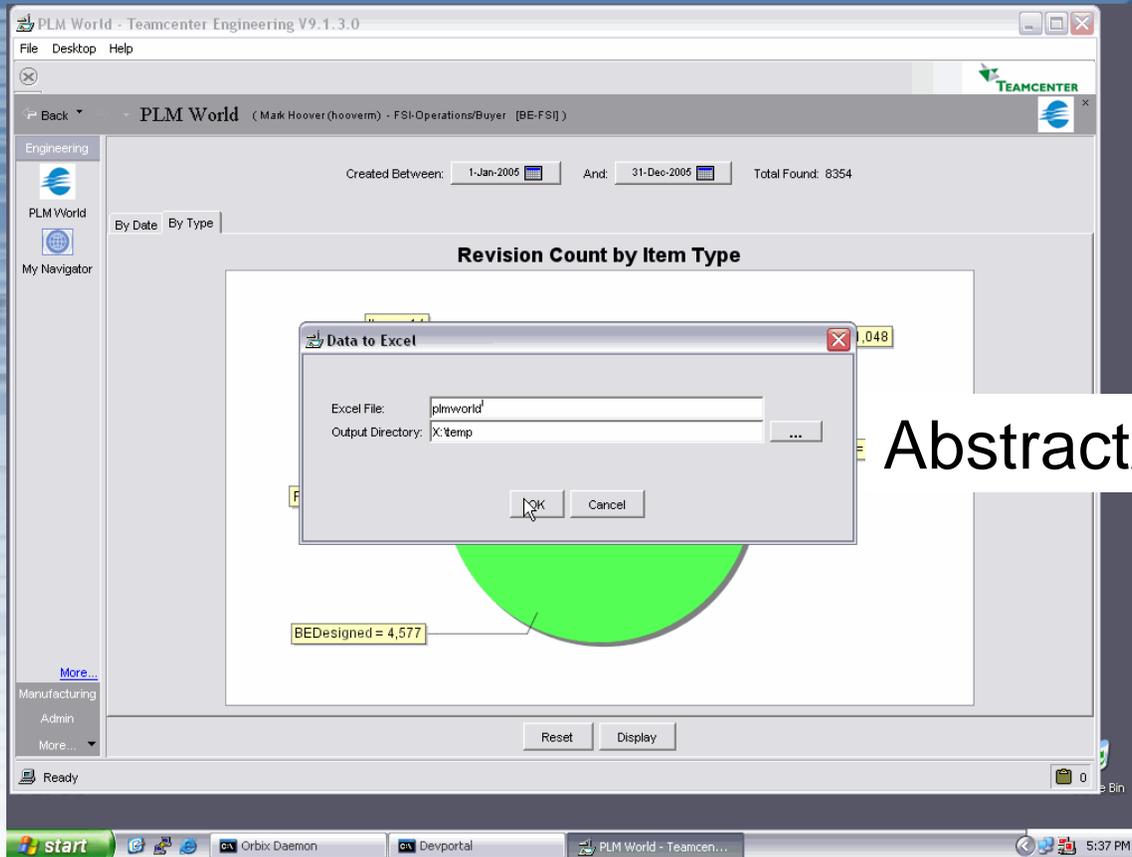
# JFreeChart By Item Type



# File -> Data to Excel



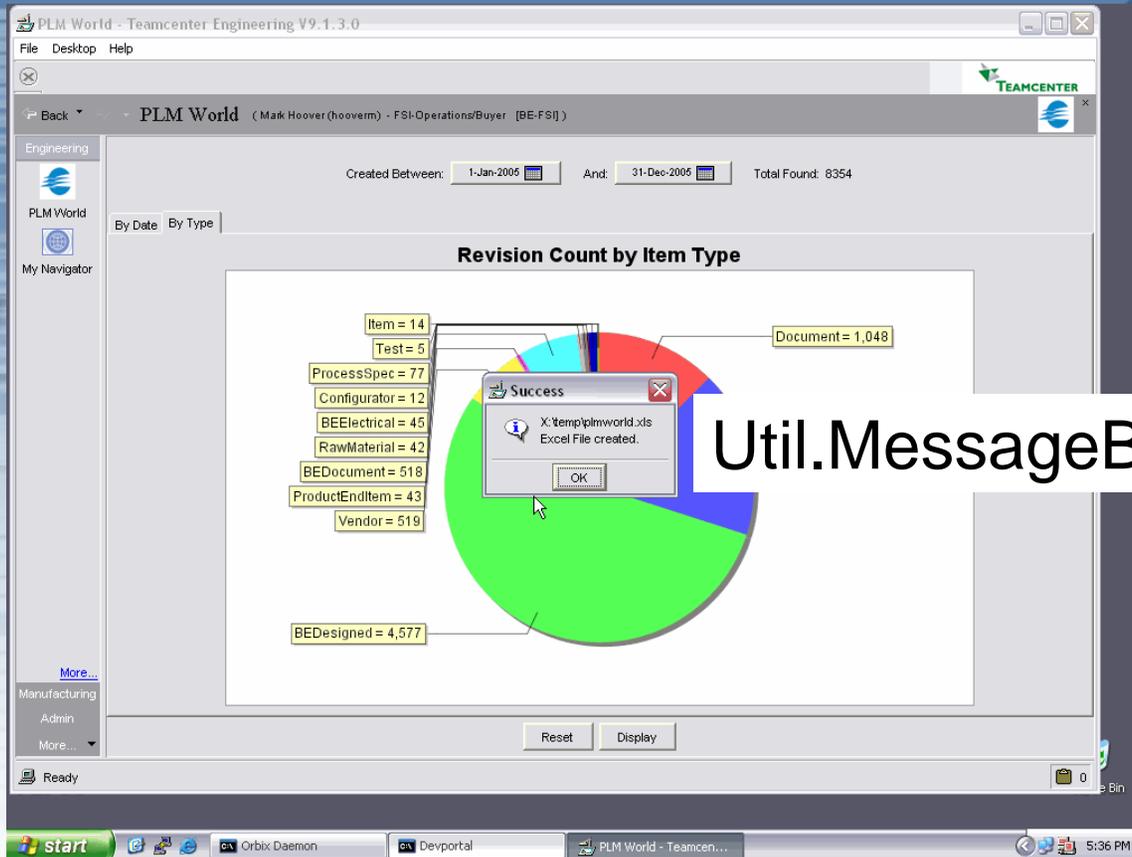
# Data to Excel Output file name



AbstractAIFDialog



# Generated Native Excel Using POI



# The Native Excel Output

	A	B	C	D	E	F	G	H
1	Creation Date	Item Id	Rev	Name	Owner	Owning Group	Status(es)	Item Type
2	28-Apr-2005	65B26500.DWG	-	FLOOR BEAM INSTL STA 540	Shannon Darrah	FSI-Engineering		Document
3	22-Jan-2005	X2.62.0340.000.000.20	-	X2.92.0340.000.000.70	Bob Holdberger	dba		LegacyData
4	24-Jan-2005	X2.62.0564.004.000.23	-	X2.92.0564.004.000.73	Bob Holdberger	dba		LegacyData
5	15-Mar-2005	X2.62.0362.000.000.20	-	X2.92.0362.000.000.70	Bob Holdberger	FSI-Engineering		LegacyData
6	22-Feb-2005	A232106-055	A	CARPET - SIDE OF BODY MID LH	Warren Bonee	FSI-Engineering	RELEASED	BEDesigned
7	20-Jan-2005	A238135-001	A	INSTL - U/D STOWAGE BINS	Jack Cassidy	FSI-Engineering	RELEASED	BEDesigned
8	25-May-2005	Instrument Panel	-	Instrument Panel	Bob Holdberger	FSI-Engineering		LegacyData
9	16-May-2005	A416110-101	-	ATTENDANT SEAT TEST FIXTURE	Shannon Darrah	FSI-Engineering	RELEASED	BEDesigned
10	24-Jan-2005	X2.62.0562.044.000.23	-	X2.92.0562.044.000.73	Bob Holdberger	dba		LegacyData
11	16-Mar-2005	A416136-011	-	CLOSET ASSY - C6	Shannon Darrah	FSI-Engineering	RELEASED	BEDesigned
12	18-Feb-2005	S8182	-	DEC LAM 60" WIDE, PSA	Donald Cook	FSI-Engineering	RELEASED	Vendor
13	24-Jan-2005	X2.62.0583.000.000.20	-	X2.92.0583.000.000.70	Bob Holdberger	dba		LegacyData
14	27-Jan-2005	A416112-102	-	PANEL	Shannon Darrah	FSI-Engineering	RELEASED	BEDesigned
15	25-May-2005	A336_FD_struct	-	A336_FD_struct	Bob Holdberger	FSI-Engineering		LegacyData
16	22-Feb-2005	A232106-042	A	CARPET - UNDERSEAT AFT CL/CL	Warren Bonee	FSI-Engineering	RELEASED	BEDesigned
17	22-Feb-2005	A232106-054	A	CARPET - SIDE OF BODY FWD RH	Warren Bonee	FSI-Engineering	RELEASED	BEDesigned
18	6-Apr-2005	A416122-022	-	NUTPLATE HOLDER ASSY	Marc Dont	FSI-Engineering		LegacyData
19	22-Jan-2005	X2.62.0363.031.000.23	-	X2.92.0363.031.000.73	Bob Holdberger	dba		LegacyData
20	15-Feb-2005	A336128-044	-	WASTE CAN FLEX COVER	Bob Holdberger	FSI-Engineering		LegacyData
21	2-May-2005	A415461-102-004	-	HINGE, OUTER FWD, SURROUND	Bob Holdberger	FSI-Engineering		LegacyData
22	24-Jan-2005	X2.62.0562.052.000.23	-	X2.92.0562.052.000.73	Bob Holdberger	dba		LegacyData
23	26-Mar-2005	A416136-013	A	CLOSET ASSY - C6	Shannon Darrah	FSI-Engineering	RELEASED	BEDesigned
24	22-Jan-2005	X2.62.0364.066.000.23	-	X2.92.0364.066.000.73	Bob Holdberger	dba		LegacyData
25	17-Jan-2005	A238132-186	-					
26	24-Jan-2005	X2.62.0562.052.000.23	-	X2.92.0562.052.000.73	Bob Holdberger	dba		LegacyData
27	18-Feb-2005	A232220	-					
28	15-Mar-2005	X2.62.0362.000.000.20	-	X2.92.0362.000.000.70	Bob Holdberger	FSI-Engineering		LegacyData
29	23-Mar-2005	A232106-055	A	CARPET - SIDE OF BODY MID LH	Warren Bonee	FSI-Engineering	RELEASED	BEDesigned
30	16-Apr-2005	A416122-022	-	NUTPLATE HOLDER ASSY	Marc Dont	FSI-Engineering		LegacyData
31	15-Feb-2005	A336128-044	-	WASTE CAN FLEX COVER	Bob Holdberger	FSI-Engineering		LegacyData

