

# Integration of 'OO' into Muli & Ngipi Open Business Accounts

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Muli Management Pty Ltd.

# Scope

- Background
  - Who are Muli and Ngipi
  - What do we do
  - Baggage, Environment
- Objectives from version N and OO
  - Risk2do
- OO solution
  - Typical Documents
  - OO Elements
  - Templates
  - Management

# Acknowledgements

- I am NOT a OO expert.
  - (I dream, others do)
- My thanks to the Muli team
  - Anne (who will field technical questions)
  - Tim
  - Chris (who stayed at the office to support our clients)
- Jonathan Coombes for OO tech support.
  - OO [OpenOffice.org](http://OpenOffice.org)

# Muli Do

- Not simply a accounting package
  -
- Muli provide
  - Project Oriented accounts
  - Each Project makes Contribution to Overheads
  - Budgets, Orders, Payables, Receivables, P&L, Balance sheet, BAS, Payroll
  - Project risk,
  - Process Management
  - Solution for project oriented Business

# Muli History

- Started 1982,
- Durango, Molecular, Osiris, Bull
- Zenix, Unix System V, Unixware, Linux
- Construction industry
- Australia, Indonesia, Hong Kong

# Development Environment

- Original 'Star Basic'
- Compiled and Linked C based runtime
  - RM Cobol (dropped)
- Continually enhanced using
  - Tcl/TK & C
  - Major User interface extensions 'N'

# Data Storage.

- Multi utilise:
- Disam as primary data Storage
  - Speed
- PostgreSQL where user data interface required.
- OO uses standard OO formats.

# 'Ngipi'

## Open Business Accounts

- In 2004 we announced our intention to Open Source the basic accounting functions with version N - Budgets to General ledger
- The effort to implement Version N & take existing 600+ application programmes to 'open review' has proven to be a major task
- Target date for release 1<sup>st</sup> quarter 06.



# Muli Associates

- While the base Accounting solution will be released as open source.
  - including Correspondence Manager.
- Muli Associates (extended source code access):
  - Companies or Individuals
  - providing regional sales & support services
  - Professionals, able to understand & implement the processes required for a particular vertical market.
  - Obtaining 'fee for service' support above Ngipi

# Version 'N'

- Tcl/tk Thin Client
  - Abandoned (after 3 starts)
  - NoMachine NX Client & server adopted  
OO performance on Client server satisfactory.  
Reduced implantation issues.
- Reconfigured Input & Application development environment
  - User interface
  - Notes facility
  - Risk2Do

14/Apr/05 12:34 07706  
 Risk No:  browch Incomplete

1. Note risk <span style="float: right;">+ N N</span>	
<input type="text" value="Conflict between duct work and plumbing"/>	
5. Project / Order	<input type="text" value="400114"/> OLYMPIC OFFICES, HOMEBUSH
6. Allocation	<input type="text" value="6300"/> PLUMBING & DRAINAGE
7. Element	<input type="text" value="C990"/> Drainer
8. Order	<input type="text" value=""/>
9. Organisation	<input type="text" value="PEERS"/> PEERS AIRCOND
10. List in S/C pay	<input type="text" value="N"/> No
11. Incl in amendment	<input type="text" value=""/>
12. Incl in vary #	<input type="text" value=""/>
13. Incl ext of time #	<input type="text" value=""/>
14. Ext of time(days)	<input type="text" value="0.0"/>
26. Approver 1	<input type="text" value=""/>
28. Approver 2	<input type="text" value=""/>
30. Approver 3	<input type="text" value=""/>
35. Change object 331	<input type="text" value="C"/> Correspondence '00' Document
36. Object group 433	<input type="text" value=""/>
37. Object #	<input type="text" value=""/>
40. Correspondence	<input type="text" value="Maintain"/>
41. Digital/Photo	<input type="text" value="Maintain"/>
42. Scheduling Dependencies	<input type="text" value="Maintain"/>
43. Group 442	<input type="text" value="A"/> One summary for project
44. Duration (days)	<input type="text" value="7.0"/>
45. Calendar 441	<input type="text" value="A"/> Real day count
<b>Risk management</b>	
50. Likelihood 402	<input type="text" value="5"/> Moderate
51. Level of risk 404	<input type="text" value="5"/> Moderate Risk
52. Consequence 403	<input type="text" value="4"/> Low
<b>Risk mitigation</b> <input type="text" value=""/>	
15. Risk value	<input type="text" value="0.00"/>
16. Resolution 419	<input type="text" value="0"/>
17. Item Manager RPC	<input type="text" value="browch"/> Chris_BROWNLIE
18. Requestor RPC	<input type="text" value="magnul"/> ULTO MAGNIFICO
19. Risk Item doer	<input type="text" value="PEERS"/> PEERS AIRCOND
20. Request date	<input type="text" value="14Apr05"/>
21. Action 207 days	<input type="text" value="4"/> Within 7 days
22. Start date	<input type="text" value="14Apr05"/>
23. Finish date	<input type="text" value="14Apr05"/>
24. Master risk #	<input type="text" value="No"/>
25. Reason 400	<input type="text" value="FX"/>
32. % complete	<input type="text" value="0.0"/> browch 14Apr05
33. Work std 413	<input type="text" value="C"/> Std Normal
34. Follow on 414	<input type="text" value="P"/> F/on Normal Condition
38. Revision start	<input type="text" value=""/>
39. Revision finish	<input type="text" value=""/>
46. Early start	<input type="text" value=""/>
47. Free float start	<input type="text" value=""/>
48. Earliest finish	<input type="text" value=""/>
49. Free float finis	<input type="text" value=""/>
53. Opportunity 405	<input type="text" value="3"/> Moderate
54. Effort 406	<input type="text" value="2"/> Significant Senior Mgmt At
55. Priorityi 202	<input type="text" value="2"/> URGENT About to delay proj

Enter Field Number to Change<1-57>:

# Muli requirements OO

- Server registration & storage of:
  - All correspondence
  - Templates
  - Substitution of application's values
  - Acceptable user response times
  - Access control

# Typical Documents

- Project Memo
- Subcontract Document
- Head Contract Progress Claim

12/Apr/05 11:04 18810

Correspondence Generation and Registration **Add**

N-000/120405 coopan99998/A

Correspondence In or Out? (I/O) OUT going correspondence

1. Proj/Ord/Corres 400114 OLYMPIC OFFICES, HOMEBUSH  
 2. Allocation 4400 STRUCTURAL STEEL  
 3. Element  
 4. Order S4100004 Structural steel  
 5. Correspondence NEXT  
 6. Revision -a **New Revision** **Release**

9. Out Group SNMEM Site Notice - Memo  
 10. In Group  
 11. Template 01 Memo  
 12. Who To BIGBO BIGBOY FABRICAT  
 13. Address type  
     ◆ Postal ▼ Courier ▼ Freeform

16. Region AA All areas  
 17. Address 256 Bamboo Drive,  
 18.  
 19. Town DOWNTOWN  
 20. State NSW  
 21. Postcode 2239  
 22. Country

23. Email nwacketoher@bigpond.com.au  
 24. Attn Neil Wacketoher  
 25. Subject / Re: Confirmation of Furniture Selection  
 26. Respons RPC do skeoro RON\_SKEOCH  
 27. Send method P Posted  
 28. Receive method

29. Signature Block skeoroA1 Default signature block  
 30. Date sent 12 Apr 05  
 31. Priority 3 NORMAL Response Required  
 32. Status 5 Normal response required  
 33. Access control N No control  
 34. Date required by 19 Apr 05  
 35. Date response received

36. Links 0 **Change**  
 37. Copies to? 0 **Change**  
 38. Risk items 0 **Change**

39. Note correspondence - **N1**  
 Not sent

- Postpone creation**
- Create/Modify**
- Print**
- View only**
- Copy to new correspondence**

Enter Field Number to Change<1-46>:

# Elements of OO file

- The W00050001--.stw file unzip
  - METTA-INF/manifest.xml
  - Pictures/image.gif
  - content.xml
  - Layout-cache
  - meta.xml
  - Mimetype
  - settings.xml
  - styles.xml

# Muli Template

- Header
- Body
  - Unprotected
  - Protected
  - Process informational (not printed)
- Signature block



- Head Contract Variation Advice
- HC Extension of Time Advice
- Purchase Order Creation
- Subcontract Creation
- Amendment Creation
- Subcontract Final Certificate
- Adjustment/Credit Note
- Income Order Confirmation
- Income Order Amendment
- Head Contract Claim Lump Sum
- Head Contract Claim Cost Based
  - - Site Management Meeting
- Labour Order Creation
- Labour Order Amendment
- Subcontract Internal Pay Advice
- Subcontract Progress Payment
- Site Notice Creation
  - - Site Memo
  - - Site Letter
  - - Corrective Action Request
  - - Subcontractor/Supplier Breach
  - - Employee Breach Notification
  - - Hazard Notification/Complaint
  - - Confined Workspace Permit
  - - Hot Work Permit
  - - Request for Information
- Subcontract Internal Pay Advice
- Subcontract Progress Payment
- Document Trace Issue
- Document Trace Receipt
  - - Minutes

# Subcontract Definition

- All process Control and Accounting data entered in application.

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## Subcontract Order Creation

N-000/120405 coopan99998/A

1. Organisation	BIGBO	BIGBOY FABRICAT		
2. Project	400114	OLYMPIC OFFICES, HOMEBUSH		
3. Allocation	4400	STRUCTURAL STEEL		
4. Allocated budget		3,000.00 +G.S.T		3,300.00
5. Committed		2,000.00 +G.S.T		2,200.00
6. Risk value		0.00		
7. Note risk	-	N	N	
11. Order date	12 Apr 05			
12. Terms	D	14 Days		14 days 0%
13. Retention	V	10% to 5%		10 % to 5%
14. Description	Erect structural steel			
15. QA RPC	skeoro	RDN_SKEOCH		
16. Template	02	Orders subcontract -new		
17. Signature Block	skeoroA1	Default signature block		
18. Contract Serial #	269			

Enter Field Number to Change<1-18>: F1  
Manuals

F2

F3

F4  
PrtScr

F5

F6

F7  
LogOffF8  
StepBack

F9

F10

F11

F12  
Accept

# Template Substitutions

- Application programme places all sed substitutions into a file.
- The OO template is unzipped
- The sed substitution file is then applied to the content.xml & styles.xml.
- Document zipped, named with .sxw
- OO opened with required document for normal processing.

# Correspondence Enquiries

- How to find a document
  - Correspondence Data stored contract wide basis may include a number of legal entities.
- Security administration
  - Allowed access to the company
  - Allowed access to the project
  - Allowed access to the document

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## Correspondence Report

N-000/120405 coopan99998/A

	From	To
1. Database	<input type="text" value="A"/>	Multi Demonstration Database
2. In, Out or Both? (I/O/B)	<input type="text" value="O"/>	Outgoing
3. Project / Order	<input type="text" value="all"/>	
4. Allocation	<input type="text" value="all"/>	
5. Order	<input type="text" value="all"/>	
6. Element		
7. Who To	<input type="text" value="all"/>	
8. Date sent	<input type="text" value="01 Jan 05"/>	<input type="text" value="12 Apr 05"/>
9. Sender RPC	<input type="text" value="all"/>	
10. Out Group	<input type="text" value="all"/>	
11. Status	<input type="text" value="all"/>	
12. Headings?	<input type="text" value="P"/>	Project headings
13. Include all Revisions?		
14. Include Notes? Y/N/E		
15. Include the Links?		

Enter Field Number to Change<1-15>: F1  
Manuals

F2

F3

F4  
PrtScr

F5

F6

F7  
LogOffF8  
StepBack

F9

F10

F11

F12  
Accept

# Acronyms

- Muli's Acronym
  - ARPMA
  - Agile Risk & Process Management with Accounts
  - 
  - Questions

# Follow up

- Multi Management  
124 Fox Valley Rd. Wahroonga.2076  
Sydney Australia. Ph 612 9487 3241  
Fax 612 9487 3583 Email  
[multi@multi.com.au](mailto:multi@multi.com.au)
- Multi web site: [www.multi.com.au](http://www.multi.com.au)
- Correspondence User Manual
  - [www.multi.com.au/N/man/181](http://www.multi.com.au/N/man/181)
- Risk2Do User Manual
  - [www.multi.com.au/N/man/072](http://www.multi.com.au/N/man/072)