DownerEDi
Mining
eCMS
Electronic Capital Management System

Agenda & Schedule

- Who is Downer EDi Mining?
- Overview of eCMS
- How it was built using Active Forms
- Lessons Learnt

Who is Downer EDi Mining?

- Been in Contract Mining for over 90 years
- Employ over 4000 employees
- More than 50 sites in Aust, NZ, PNG, South America and South Africa
- We deal in Open Cut and Underground Mining, Drill and Blast services, and Tyre Management
- We are part of the Downer Group
- Business parts are, Downer Australia, Downer New Zealand, Downer Mining, and Downer Rail

Overview of eCMS

- eCMS: **e**lectronic **C**apital **M**anagement **S**ystem
- eCMS is built in TM1 Cognos Express with Active Forms
- Deployed on the Web via Internet Explorer
- eCMS covers :
  - Capex Request
  - Approval – including email notification
  - Actual spend tracking
  - Forecasting

eCMS – The Process

1	2	3	4
Identify or Create Capital Items	Create Capex Request	Electronic Approval Process	Review Actuals
	Match Capital Items		Forecast Spend by Item

Homepage

IBM Cognos Express Xcelerator

[Base]

DownerEDi Mining

BUSINESS PERFORMANCE MANAGEMENT SYSTEM

Welcome Darren Gerding

ELECTRONIC CAPITAL MANAGEMENT SYSTEM (eCMS)

(To be used in accordance with the procedure DM-FN-P21 Capital Expenditure)

The Current Period in eCMS is October 2011
Your Default Reporting Unit is Mining - Qld Pacific Group

InputTemplates

Capital Items

CEAR

- Capex (Printable)

- Plant Performance (Printable)

Set Approvals

Forecasting

Reports

Reporting Unit Summary

Business Unit Summary

CEAR Detail

Reporting Unit Forecast Summary

Business Unit Forecast Summary

Capital Items Input Template

What is it used for?

- Identify items for your capex
- Create and Edit New items

Capital Items Input Template

IBM Cognos Express Xcelerator — dagerdin | Home | About | eCMS Documents Folder

Homepage.xls | Capital Items ×

[Base]

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Refresh

ELECTRONIC CAPITAL MANAGEMENT SYSTEM

CAPITAL ITEM INPUT TEMPLATE

Capital Item Listing

Financial Year Items Created:	2011-12
Reporting Unit:	(Default)
Project No and Name:	0000
Tender / Budget:	All
Category:	All
Asset Class:	All
Total $ Amount for New / Summary Item:	0

<-- Create New Item

<-- Create Summary Item

Edit New / Itemised Items

Itemise Summary Item -->

Parameters for Itemising a Summary Item

Project No:	
Item Number:	
Item Type:	
Item Category:	
Amount available:	
Amount for Itemisation:	0

Project	Capital Item Number	Financial Year Created	Tender / Budget	Tender Ref.	Asset Class Code	Asset Class	Capital Item Description	Capital Item Type	Capital Item Category	Fixed Capital Investment Type	CEAR. Item No	Turn Key Date
4828 Millenium Coal	000002	2011-12	Budget		800	Component Capitalisation	Component Capitalisation	BU	Component Capitalisation	RFCI		
	000167	2011-12	Budget		003	Off Highway Trucks	Major Plant Replacement 785B Dump Truck Caterpillar Asset	Item	Capital	RFCI		
	000179	2011-12	Budget		021	Minor plant	Minor Plant Replacement Generator 30KVA FG Wilson Asset	Item	Capital	RFCI		
	000180	2011-12	Budget		021	Minor plant	Minor Plant Replacement Pump 8 inch Legra Asset Item Nu	Item	Capital	RFCI		
	000181	2011-12	Budget		019	Light Vehicles	Minor Plant Replacement Utility Toyota Workmate Asset Item	Item	Capital	RFCI		
	000182	2011-12	Budget		019	Light Vehicles	Minor Plant Replacement S/Wagon Prado GX 3.0L Asset Item	Item	Capital	RFCI		
	000183	2011-12	Budget		019	Light Vehicles	Minor Plant Replacement S/Wagon Prado GX Toyota Asset It	Item	Capital	RFCI		
	000184	2011-12	Budget		019	Light Vehicles	Minor Plant Replacement S/Wagon Prado GXL Toyota Asset	Item	Capital	RFCI		
	000242	2011-12	Budget		003	Off Highway Trucks	Operating Lease Purchases 789C Dump Truck Caterpillar SH	Item	Capital	RFCI		
	000243	2011-12	Budget		003	Off Highway Trucks	Operating Lease Purchases 789C Dump Truck Caterpillar SH	Item	Capital	RFCI		
	000758	2011-12	New		054	Safety equipment	1 of 8 Diagonal Access Systems for Cat 785 Rear Dump	Item	Capital	IFCI	00033.01	
	000759	2011-12	New		054	Safety equipment	2 of 8 Diagonal Access Systems for Cat 785 Rear Dump	Item	Capital	IFCI	00033.02	
	000760	2011-12	New		054	Safety equipment	3 of 8 Diagonal Access Systems for Cat 785 Rear Dump	Item	Capital	IFCI	00033.03	
	000761	2011-12	New		054	Safety equipment	4 of 8 Diagonal Access Systems for Cat 785 Rear Dump	Item	Capital	IFCI	00033.04	
	000762	2011-12	New		054	Safety equipment	5 of 8 Diagonal Access Systems for Cat 785 Rear Dump	Item	Capital	IFCI	00033.05	
	000763	2011-12	New		054	Safety equipment	6 of 8 Diagonal Access Systems for Cat 785 Rear Dump	Item	Capital	IFCI	00033.06	
	000764	2011-12	New		054	Safety equipment	7 of 8 Diagonal Access Systems for Cat 785 Rear Dump	Item	Capital	IFCI	00033.07	
	000765	2011-12	New		054	Safety equipment	8 of 8 Diagonal Access Systems for Cat 785 Rear Dump	Item	Capital	IFCI	00033.08	
	000907	2011-12	New		019	Light Vehicles	Truck Boilermaker Isuzu NPR300	Item	Capital	IFCI	00155.01	
4861 Norwich Park - Aug 10 Cont	000003	2011-12	Budget		800	Component Capitalisation	Component Capitalisation	BU	Component Capitalisation	RFCI		

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Capex Input Template

What is it used for?

- Create new capex
- Edit or cancel an existing request
- Lodge a request to the eCMS Administrator
- Review current status

Capex Input Template

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Homepage.xls | Capital Items | CEAR | [Base]

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Refresh

ELECTRONIC CAPITAL MANAGEMENT SYSTEM

CAPITAL EXPENDITURE APPLICATION REQUEST INPUT TEMPLATE

Capital Expenditure Application Request (CEAR) Listing

Financial Year:	2011-12
Reporting Unit:	Mining - Qld Pacific Group
Status:	All
Project No:	
Capital Request No:	

Select Capital Request | Create New Capital Request

CAPITAL EXPENDITURE APPLICATION REQUEST SUMMARY

Project	Capital Request Number	Request Creation Date	FY CEAR Created	Status	Request Description	Item QTY	Budget Item QTY	Tender Item QTY	Foreign Currency Exposure	Requested Amount	Requested Amount Current FY	Requested Amount Future FYs	Created By User
4828 Millenium Coal	C00033	29/07/2011	2011-12	Approved	8x Diagonal Access Systems for Cat 785 Rear	8	0	0		296,262	296,262	0	Craig Mehrtens
	C00155	16/11/2011	2011-12	Approved	Truck Boilermaker Isuzu NPR300	1	0	0		86,108	86,108	0	Andre Wium
4861 Norwich Park - Aug 10 Contract	C00003	5/07/2011	2011-12	Approved	2 x APB mobile Crib Rooms	2	0	0		280,305	280,305	0	Chander Swaminatha
	C00021	19/07/2011	2011-12	Approved	3 x 45,000 & 1 x 24,000 Ltr Water Tanks	4	0	0		18,000	18,000	0	Craig Mehrtens
	C00025	21/07/2011	2011-12	Approved	Conversion to Service Truck of Existing Asset	1	0	0		667,662	667,662	0	Craig Mehrtens
	C00034	3/08/2011	2011-12	Approved	Demolition Hammer GSH27	1	0	0		2,840	2,840	0	Craig Mehrtens
	C00041	8/08/2011	2011-12	Approved	P&H Float (pre eCMS Capex #1750) - Residual	1	0	0		1,766,000	1,766,000	0	Craig Mehrtens
	C00120	12/08/2011	2011-12	Approved	3x Isuzu FSS 26 Seater 4WD mine site coach	3	0	0		413,000	413,000	0	Craig Mehrtens
	C00131	5/09/2011	2011-12	Approved	1 x Isuzu Service Truck + 1x Bard Service	1	0	0		333,657	333,657	0	Craig Mehrtens
	C00136	14/09/2011	2011-12	Approved	LV replacement - #27714 => ISUZU DMax SX	1	0	0		61,000	61,000	0	Craig Mehrtens
	C00141	22/09/2011	2011-12	Cancelled	1x Trans Tank Refuelling Station	0	0	0		503,207	503,207	0	Craig Mehrtens
	C00143	22/09/2011	2011-12	Approved	GPS Equipment for 9x Items of Plant as Within	9	0	0		747,250	747,250	0	Craig Mehrtens
	C00144	6/10/2011	2011-12	Approved	Dysart Light Vehicle Workshop Fit-Out	9	0	0		182,370	182,370	0	Craig Mehrtens
	C00145	10/10/2011	2011-12	Approved	Simulator - AES Pro Transportable Base	1	0	0		464,713	464,713	0	Craig Mehrtens
	C00159	16/11/2011	2011-12	Approved	14H Grader Caterpillar S/H	1	0	0		177,214	177,214	0	Andre Wium
	C00164	16/11/2011	2011-12	Approved	D10R Dozer Caterpillar	1	0	0		953,641	953,641	0	Andre Wium
	C00165	16/11/2011	2011-12	Approved	Workshop Tooling - Various	1	0	0		1,229,401	1,229,401	0	Andre Wium
4862 Goonyella - Aug 10 Contract	C00009	6/07/2011	2011-12	Approved	Fitment of upgraded mirros on th off-side of K	32	0	0		166,659	166,659	0	Chander Swaminatha
	C00010	6/07/2011	2011-12	Approved	Refurbishment and FRCP of 14t Franna Crane	1	0	0		101,292	101,292	0	Chander Swaminatha
	C00026	21/07/2011	2011-12	Approved	APS Machine Guidance Project - Installation of	14	0	0		820,802	820,802	0	Craig Mehrtens

Forecast Input Template

What is it used for?

- Review Actuals
- Edit Forecast

Forecast Input Template

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Homepage.xls | Forecasting × | [Base]

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ELECTRONIC CAPITAL MANAGEMENT SYSTEM

CAPITAL EXPENDITURE FORECAST INPUT TEMPLATE

Forecast Input for a Project / Business Unit

TEST

Financial Year:	2011-12
Project/BU Number and Name:	4828 Millenium Coal
Project/BU Forecast Type:	Budget

Capex No	Capex Item	Capital Item	Description	Actuals Jul 2011	Actuals Aug 2011	Actuals Sep 2011	Forecast Oct 2011	Forecast Nov 2011	Forecast Dec 2011	Forecast Jan 2012	Forecast Feb 2012	Forecast Mar 2012	Forecast Apr 2012	Forecast May 2012	Forecast Jun 2012	Actual/ Forecast 2011-12	Dif L
ALL FORECAST TYPES				(5,656,756)	(1,531,320)	213,175	1,750,000	0	23,999	1,399,000	1,155	0	500,000	1,050,000	1,198,539	(1,052,208)	
Hire Sub Contractor and Client Fixed Assets				0	0	0	0	0	0	0	0	0	0	0	0	0	
MER and Component Capitalisation Fixed Assets				472,664	597,195	213,175	0	0	0	0	0	0	0	0	0	1,283,033	
IT Fixed Assets				0	377	0	0	0	0	0	0	0	0	0	0	377	
CEARs Not Yet Approved				0	0	0	0	0	0	0	0	0	0	0	0	0	
CEARs Approved				0	0	0	1,750,000	0	0	1,355,000	1,155	0	500,000	1,050,000	175,083	4,831,238	
00112	01	000803	Test for Budget only CI match	0	0	0	0	0	0	0	0	0	100,000	0	50,000	150,000	
	02	000827	Test for Tender only CI match	0	0	0	0	0	0	0	0	0	0	50,000	0	50,000	
	03	000801	Test for Budget & Tender CI matc	0	0	0	0	0	0	0	0	0	0	1,000,000	0	1,000,000	
	04	000809	Test for Budget & Tender CI matc	0	0	0	0	0	0	0	0	0	0	0	125,000	125,000	
00120	01	000806	Item 01	0	0	0	1,750,000	0	0	1,250,000	917	0	400,000	0	83	3,401,000	
00244	01	002676	Water Truck	0	0	0	0	0	0	100,000	238	0	0	0	0	100,238	
	02	002604.1	Other	0	0	0	0	0	0	5,000	0	0	0	0	0	5,000	
Budget Capital Items				0	0	0	0	0	0	0	0	0	0	0	0	0	
Tender Capital Items				0	0	0	0	0	0	0	0	0	0	0	0	0	
New Capital Items				0	0	0	0	0	23,999	44,000	0	0	0	0	1,023,456	1,091,455	
No Capex No	01	002532	Test Day 0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		002553.1	Test on 30/05/11	0	0	0	0	0	0	10,000	0	0	0	0	0	10,000	
		002553.2	Test on 30/05/11.	0	0	0	0	0	0	0	0	0	0	0	22,000	22,000	
		002553.Fcast		0	0	0	0	0	0	34,000	0	0	0	0	(22,000)	12,000	
		002603	Test on 30/05/11	0	0	0	0	0	0	0	0	0	0	0	0	0	
		002604.2		0	0	0	0	0	0	0	0	0	0	0	1,000	1,000	
		002604.Fcast		0	0	0	0	0	(2,000)	0	0	0	0	0	(1,000)	(3,000)	
		002651	Test on 22/6/2011 nnnn	0	0	0	0	0	25,999	0	0	0	0	0	0	25,999	
		003132		0	0	0	0	0	0	0	0	0	0	0	750,000	750,000	
		003134		0	0	0	0	0	0	0	0	0	0	0	123,456	123,456	
		003145		0	0	0	0	0	0	0	0	0	0	0	150,000	150,000	
Pre eCMS Capex and Unknown Fixed Assets				(6,813,158)	(1,408,887)	0	0	0	0	0	0	0	0	0	0	(8,222,045)	
Capital WIP Expenditure				683,738	(720,005)	0	0	0	0	0	0	0	0	0	0	(36,267)	
Disposal Proceeds (incl Sale and Leaseback)				0	0	0	0	0	0	0	0	0	0	0	0	0	
Finance Leased Fixed Assets				0	0	0	0	0	0	0	0	0	0	0	0	0	
Capital Trade Creditors Adjustment				0	0	0	0	0	0	0	0	0	0	0	0	0	
eCMS LV Actual Reversal				0	0	0	0	0	0	0	0	0	0	0	0	0	
Hyperion vs JDE Variance for Balance Sheet Capex				0	0	0	0	0	0	0	0	0	0	0	0	0	
Hyperion vs JDE Variance for Cash Capex				0	0	0	0	0	0	0	0	0	0	0	0	0	

Done — Local intranet — 100%

DownerEDi Mining

EXTREME PROGRAMMING
I CAN'T GIVE YOU ALL OF THESE FEATURES IN THE FIRST VERSION.
AND EACH FEATURE NEEDS TO HAVE WHAT WE CALL A "USER STORY."
OKAY, HERE'S A STORY: YOU GIVE ME ALL OF MY FEATURES OR I'LL RUIN YOUR LIFE.
www.dilbert.com scottadams@aol.com
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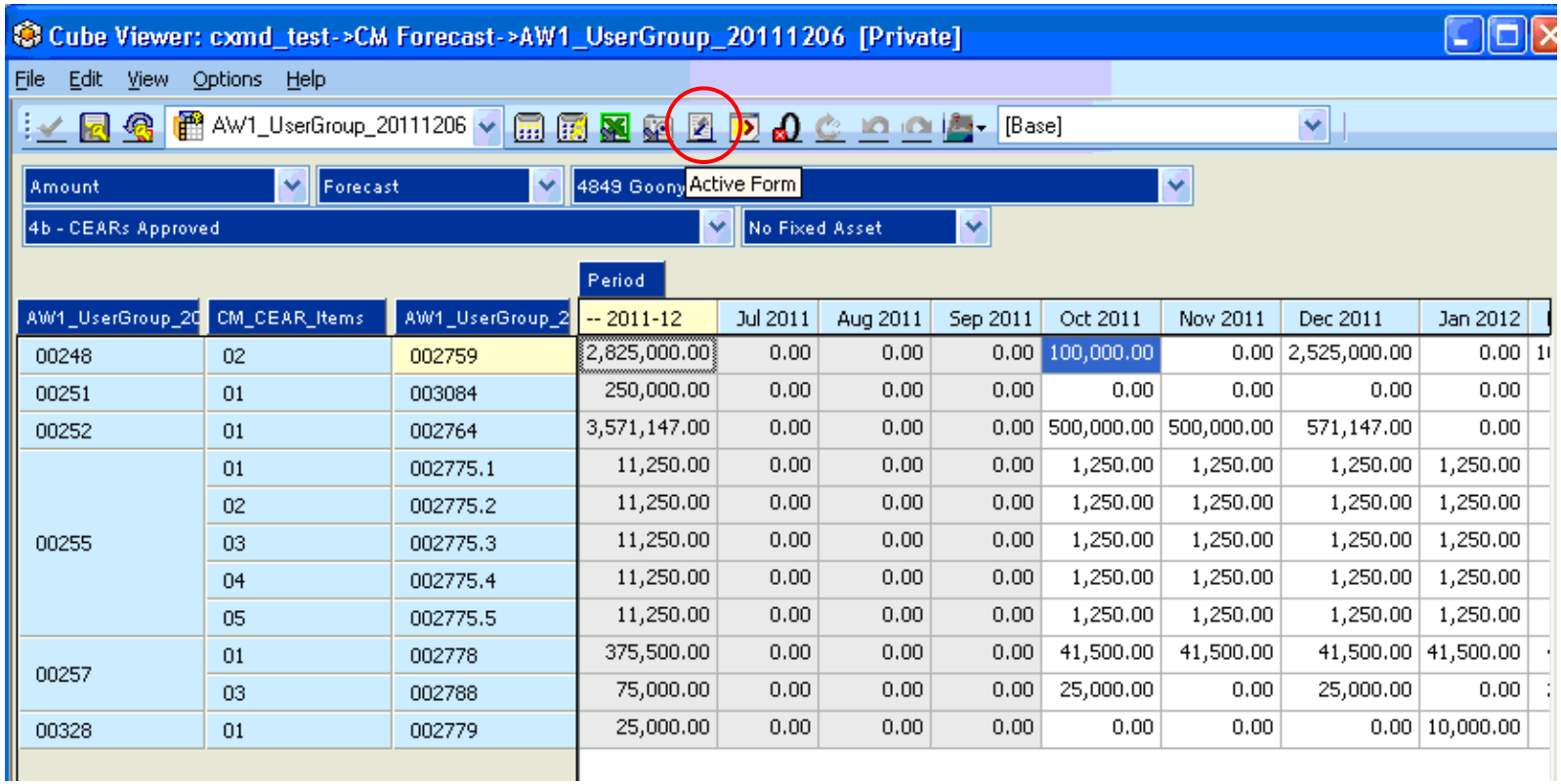
Active Forms

What is it?

A “dynamic” Slice…



AW1_UserGroup_20	CM_CEAR_Items	AW1_UserGroup_2	-- 2011-12	Jul 2011	Aug 2011	Sep 2011	Oct 2011	Nov 2011	Dec 2011	Jan 2012
00248	02	002759	2,825,000.00	0.00	0.00	0.00	100,000.00	0.00	2,525,000.00	0.00
00251	01	003084	250,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
00252	01	002764	3,571,147.00	0.00	0.00	0.00	500,000.00	500,000.00	571,147.00	0.00
00255	01	002775.1	11,250.00	0.00	0.00	0.00	1,250.00	1,250.00	1,250.00	1,250.00
	02	002775.2	11,250.00	0.00	0.00	0.00	1,250.00	1,250.00	1,250.00	1,250.00
	03	002775.3	11,250.00	0.00	0.00	0.00	1,250.00	1,250.00	1,250.00	1,250.00
	04	002775.4	11,250.00	0.00	0.00	0.00	1,250.00	1,250.00	1,250.00	1,250.00
	05	002775.5	11,250.00	0.00	0.00	0.00	1,250.00	1,250.00	1,250.00	1,250.00
00257	01	002778	375,500.00	0.00	0.00	0.00	41,500.00	41,500.00	41,500.00	41,500.00
	03	002788	75,000.00	0.00	0.00	0.00	25,000.00	0.00	25,000.00	0.00
00328	01	002779	25,000.00	0.00	0.00	0.00	0.00	0.00	0.00	10,000.00

Active Forms

… that features TM1 worksheet functions to define the components of the view, the dynamic row set, and formatting

B10

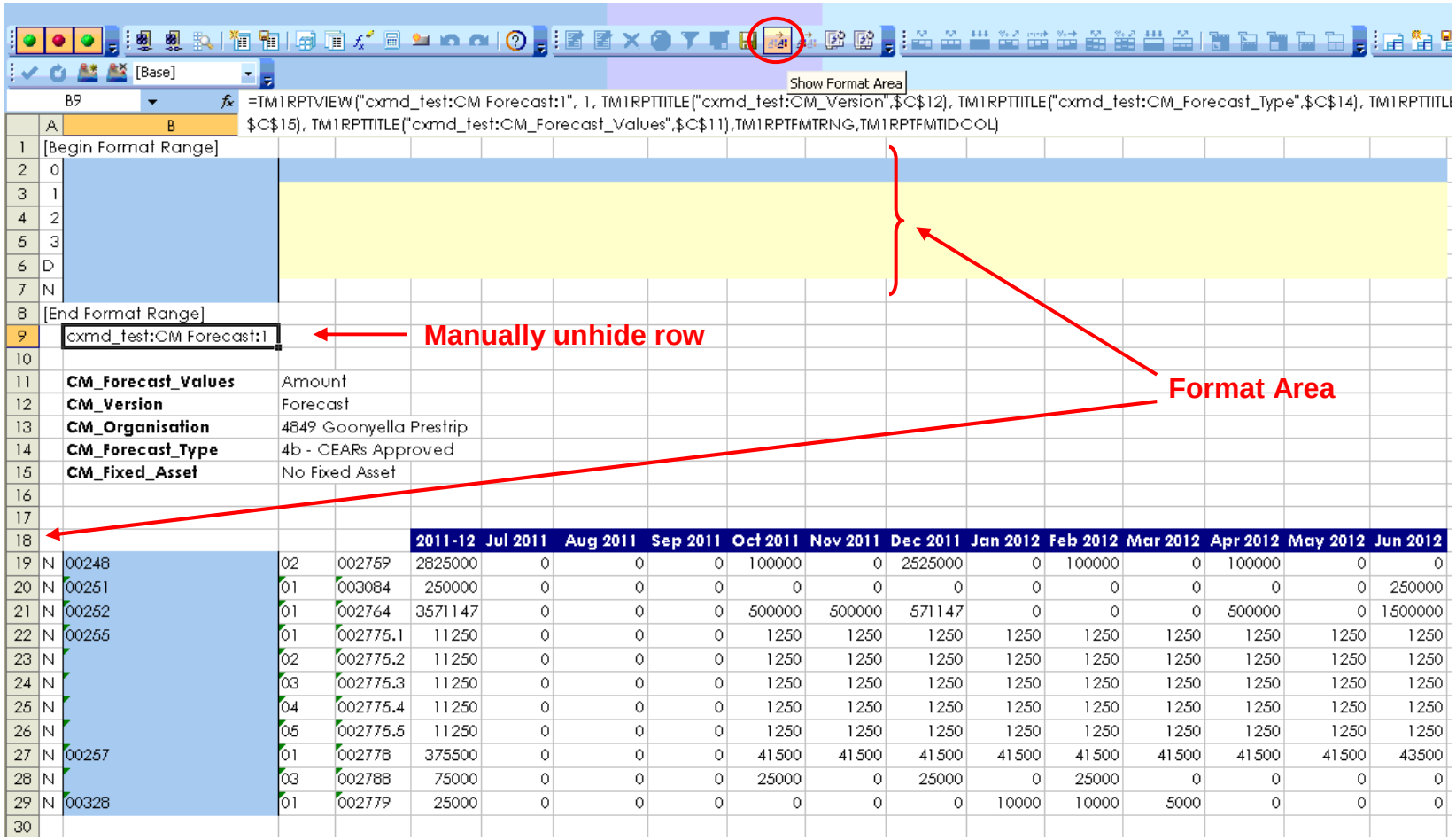
	B	C	D	E	F	G	H	I	J	K	L
10											
11	**CM_Forecast_Values**	Amount									
12	**CM_Version**	Forecast									
13	**CM_Organisation**	4849 Goonyella Prestrip									
14	**CM_Forecast_Type**	4b - CEARs Approved									
15	**CM_Fixed_Asset**	No Fixed Asset									
16											
17											
18				**2011-12**	**Jul 2011**	**Aug 2011**	**Sep 2011**	**Oct 2011**	**Nov 2011**	**Dec 2011**	**Jan 2012**
19	00248	02	002759	2825000	0	0	0	100000	0	2525000	0
20	00251	01	003084	250000	0	0	0	0	0	0	0
21	00252	01	002764	3571147	0	0	0	500000	500000	571147	0
22	00255	01	002775.1	11250	0	0	0	1250	1250	1250	1250
23		02	002775.2	11250	0	0	0	1250	1250	1250	1250
24		03	002775.3	11250	0	0	0	1250	1250	1250	1250
25		04	002775.4	11250	0	0	0	1250	1250	1250	1250
26		05	002775.5	11250	0	0	0	1250	1250	1250	1250
27	00257	01	002778	375500	0	0	0	41500	41500	41500	41500
28		03	002788	75000	0	0	0	25000	0	25000	0
29	00328	01	002779	25000	0	0	0	0	0	0	10000
30											

Page

Column

Row

Active Forms



[Base]

B9 =TM1RPTVIEW("cxmd_test:CM Forecast:1", 1, TM1RPTTITLE("cxmd_test:CM_Version",C12), TM1RPTTITLE("cxmd_test:CM_Forecast_Type",C14), TM1RPTTITLE
C15), TM1RPTTITLE("cxmd_test:CM_Forecast_Values",C11),TM1RPTFMTRNG,TM1RPTFMTIDCOL)

	A	B													
1	[Begin Format Range]														
2	0														
3	1														
4	2														
5	3														
6	D														
7	N														
8	[End Format Range]														
9		cxmd_test:CM Forecast:1													
10															
11		**CM_Forecast_Values**	Amount												
12		**CM_Version**	Forecast												
13		**CM_Organisation**	4849 Goonyella Prestrip												
14		**CM_Forecast_Type**	4b - CEARs Approved												
15		**CM_Fixed_Asset**	No Fixed Asset												
16															
17															
18					**2011-12**	**Jul 2011**	**Aug 2011**	**Sep 2011**	**Oct 2011**	**Nov 2011**	**Dec 2011**	**Jan 2012**	**Feb 2012**	**Mar 2012**	**Apr 2012**	**May 2012**	**Jun 2012**
19	N	00248	02	002759	2825000	0	0	0	100000	0	2525000	0	100000	0	100000	0	0
20	N	00251	01	003084	250000	0	0	0	0	0	0	0	0	0	0	0	250000
21	N	00252	01	002764	3571147	0	0	0	500000	500000	571147	0	0	0	500000	0	1500000
22	N	00255	01	002775.1	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
23	N		02	002775.2	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
24	N		03	002775.3	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
25	N		04	002775.4	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
26	N		05	002775.5	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
27	N	00257	01	002778	375500	0	0	0	41500	41500	41500	41500	41500	41500	41500	41500	43500
28	N		03	002788	75000	0	0	0	25000	0	25000	0	25000	0	0	0	0
29	N	00328	01	002779	25000	0	0	0	0	0	0	10000	10000	5000	0	0	0
30																	

Active Forms

Why use it?

- Downer Mining users don’t use cube views
- Traditional Excel reports pulled in “all values” from a cube
- Front-end Excel functionality (formulas/macros) used to filter data
- Active Forms does all the filtering in the cube views
  - Substantial improvement in efficiency and performance

Active Forms

A few things to be aware of…

- Excel macros don’t work in Web
- Excel “custom” data validation not supported in Web
- Define data validation message titles
- Don’t change “Active Form” DBRWs to DBRs
- Exporting to PDF is problematic when SUBNM functions are used
- Freeze pane column/row misalignment resolved upon Refresh of page

Active Forms

Highly Configurable and Dynamic

DOWNER EDi MINING

Refresh

ELECTRONIC CAPITAL MANAGEMENT SYSTEM

CAPITAL EXPENDITURE FORECAST INPUT TEMPLATE

Forecast Input for a Project / Business Unit

TEST

Financial Year: 2011-12

Project/BU Number and Name: 0000 <-- Enter a Project number

Project/BU Forecast Type:

Helper message Enter the Project/BU number only. E.g. 4975 (for Commodore)

Capex No	Capex Item	Capital Item	X	Actuals Jul 2011	Actuals Aug 2011	Actuals Sep 2011	Forecast Oct 2011	Forecast Nov 2011	Forecast Dec 2011	Forecast Jan 2012	Forecast Feb 2012	Forecast Mar 2012
ALL FORECAST TYPES												
Hire Sub Contractor and Client Fixed Assets			X									
MER and Component Capitalisation Fixed Assets												
IT Fixed Assets												
CEARs Not Yet Approved			X									
CEARs Approved			X									
Budget Capital Items			X									
Tender Capital Items			X									
New Capital Items			X									
Pre eCMS Capex and Unknown Fixed Assets												
Capital WIP Expenditure												
Disposal Proceeds (incl Sale and Leaseback)												
Finance Leased Fixed Assets												
Intercompany Transfers			X									
Capital Trade Creditors Adjustment												
eCMS LV Actual Reversal												
Hyperion vs JDE Variance for Balance Sheet Capex												
Hyperion vs JDE Variance for Cash Capex												

```
{TM1SORT({FILTER( {TM1FILTERBYLEVEL( {TM1SUBSETALL( [CM_Capex_No] )}, 0)},
[CM_Capex_No].[Status] = "Drafted" OR [CM_Capex_No].[Status] = "Lodged" OR
[CM_Capex_No].[Status] = "Submitted")}, ASC)}
```

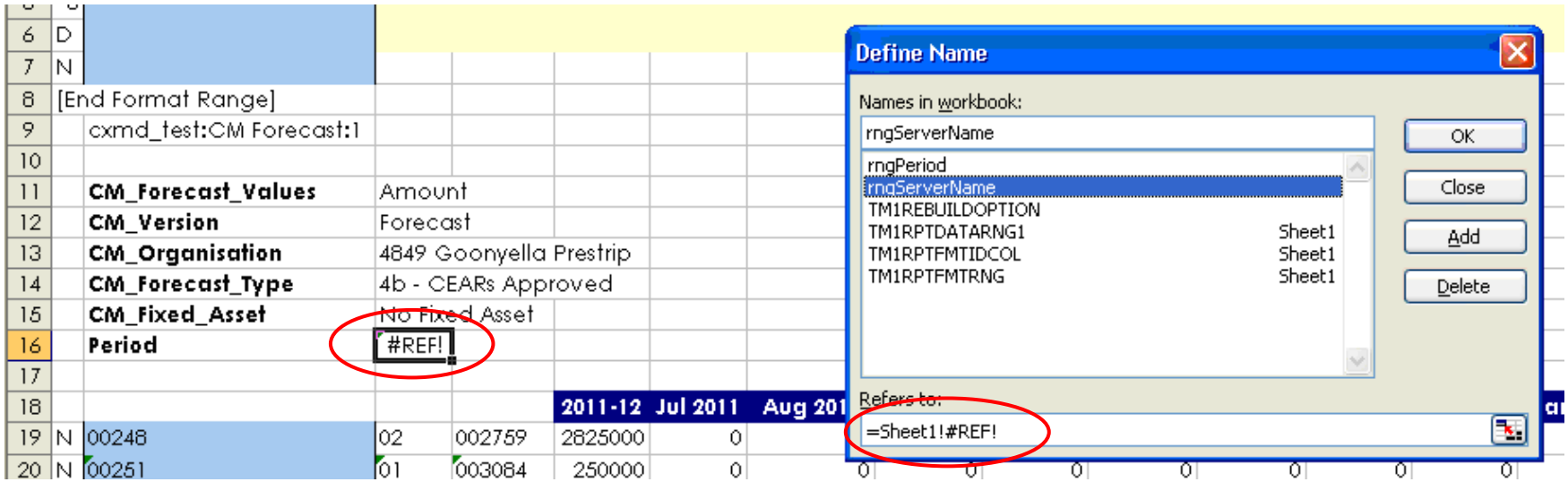
DownerEDi Mining

Active Forms

Top Ten Tips

Provided by Tridant, and Downer Mining agrees wholeheartedly

1. Change/delete any Named references or cell formulas with #Ref in them, and check for external links and change/delete



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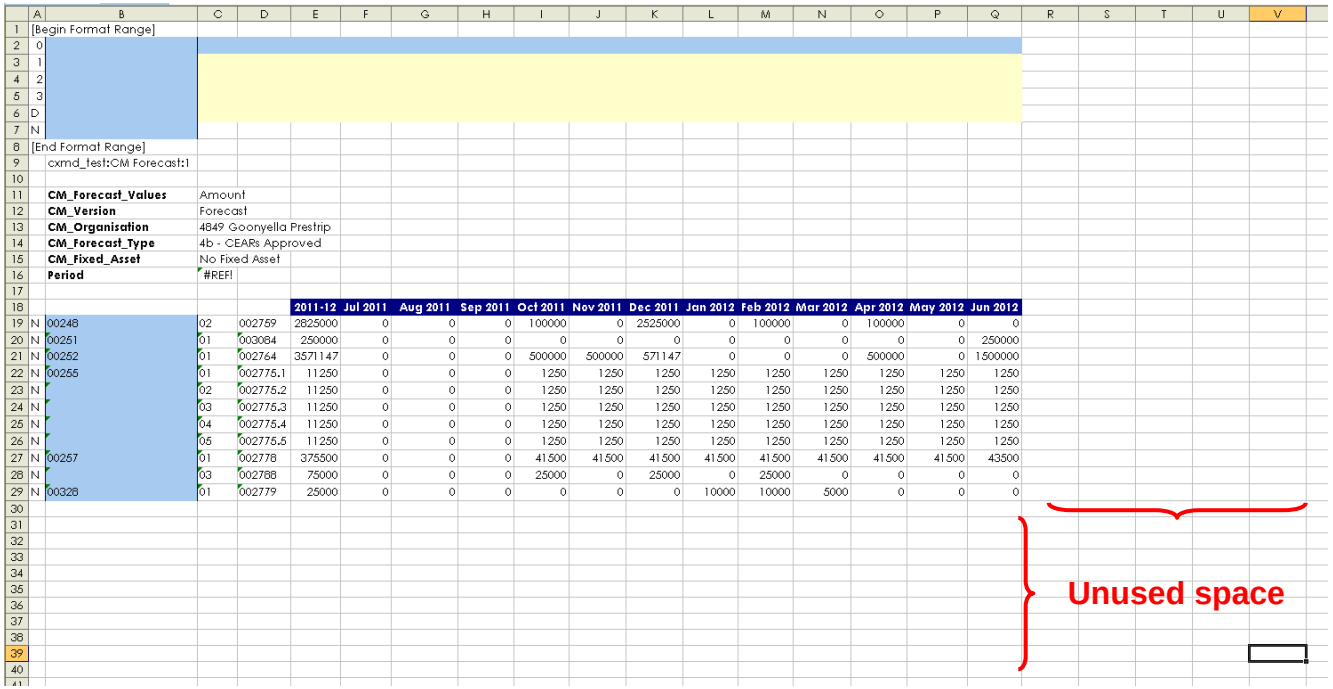
2. Delete any unused columns or rows. Use the slider as an indicator as to how many rows/columns are saved with the sheet (or End, Home keys)



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	[Begin Format Range]																
2	0																
3	1																
4	2																
5	3																
6	D																
7	N																
8	[End Format Range]																
9		cxmd_test:CM Forecast:1															
10																	
11		**CM_Forecast_Values**	Amount														
12		**CM_Version**	Forecast														
13		**CM_Organisation**	4849 Goonyella Prestrip														
14		**CM_Forecast_Type**	4b - CEARs Approved														
15		**CM_Fixed_Asset**	No Fixed Asset														
16		**Period**	#REF!														
17																	
18					**2011-12**	**Jul 2011**	**Aug 2011**	**Sep 2011**	**Oct 2011**	**Nov 2011**	**Dec 2011**	**Jan 2012**	**Feb 2012**	**Mar 2012**	**Apr 2012**	**May 2012**	**Jun 2012**
19	N	00248	02	002759	2825000	0	0	0	100000	0	2525000	0	100000	0	100000	0	0
20	N	00251	01	003084	250000	0	0	0	0	0	0	0	0	0	0	0	250000
21	N	00252	01	002764	3571147	0	0	0	500000	500000	571147	0	0	0	500000	0	1500000
22	N	00255	01	002775.1	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
23	N		02	002775.2	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
24	N		03	002775.3	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
25	N		04	002775.4	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
26	N		05	002775.5	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
27	N	00257	01	002778	375500	0	0	0	41500	41500	41500	41500	41500	41500	41500	41500	43500
28	N		03	002788	75000	0	0	0	25000	0	25000	0	25000	0	0	0	0
29	N	00328	01	002779	25000	0	0	0	0	0	0	10000	10000	5000	0	0	0
30																	
31																	
32																	
33																	
34																	
35																	
36																	
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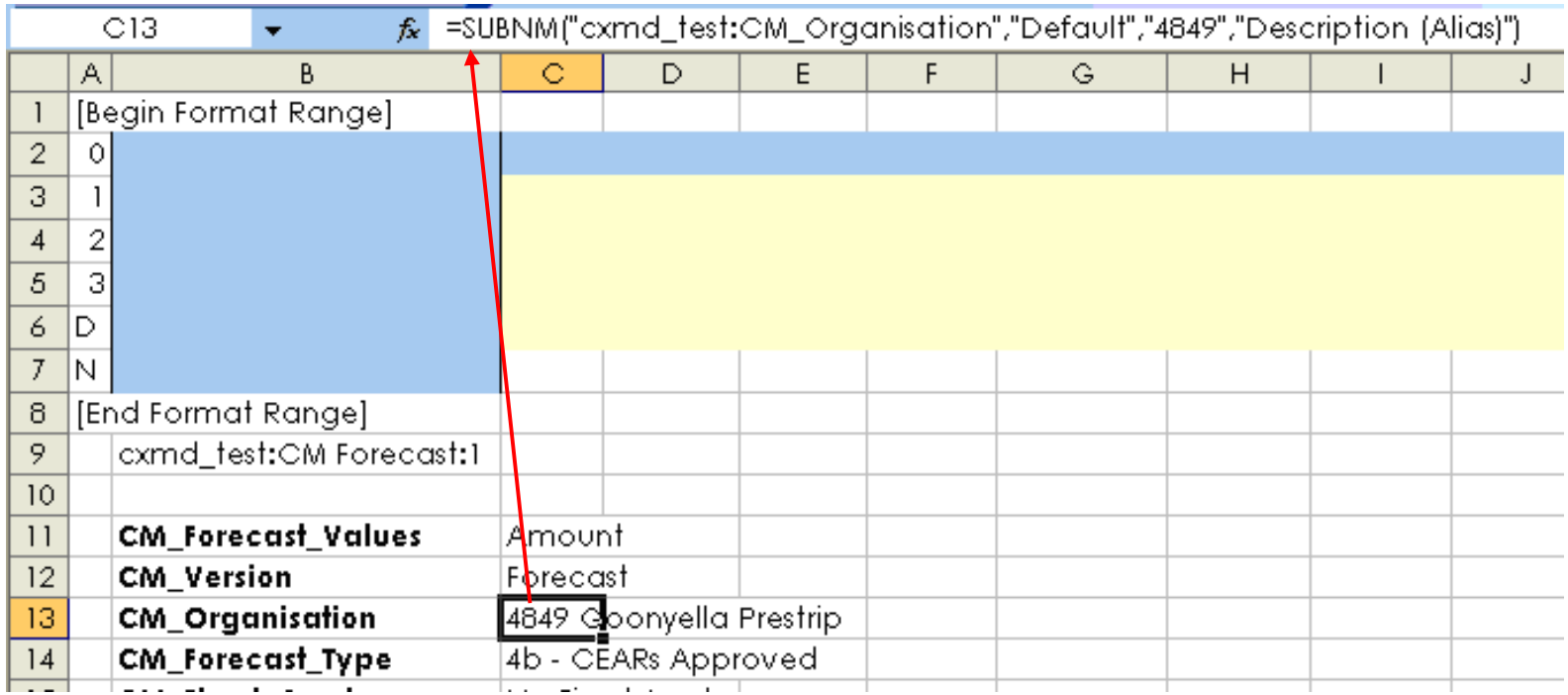
Top Ten Tips

3. Avoid or keep SUBNM and ELCOMP formulas to a minimum



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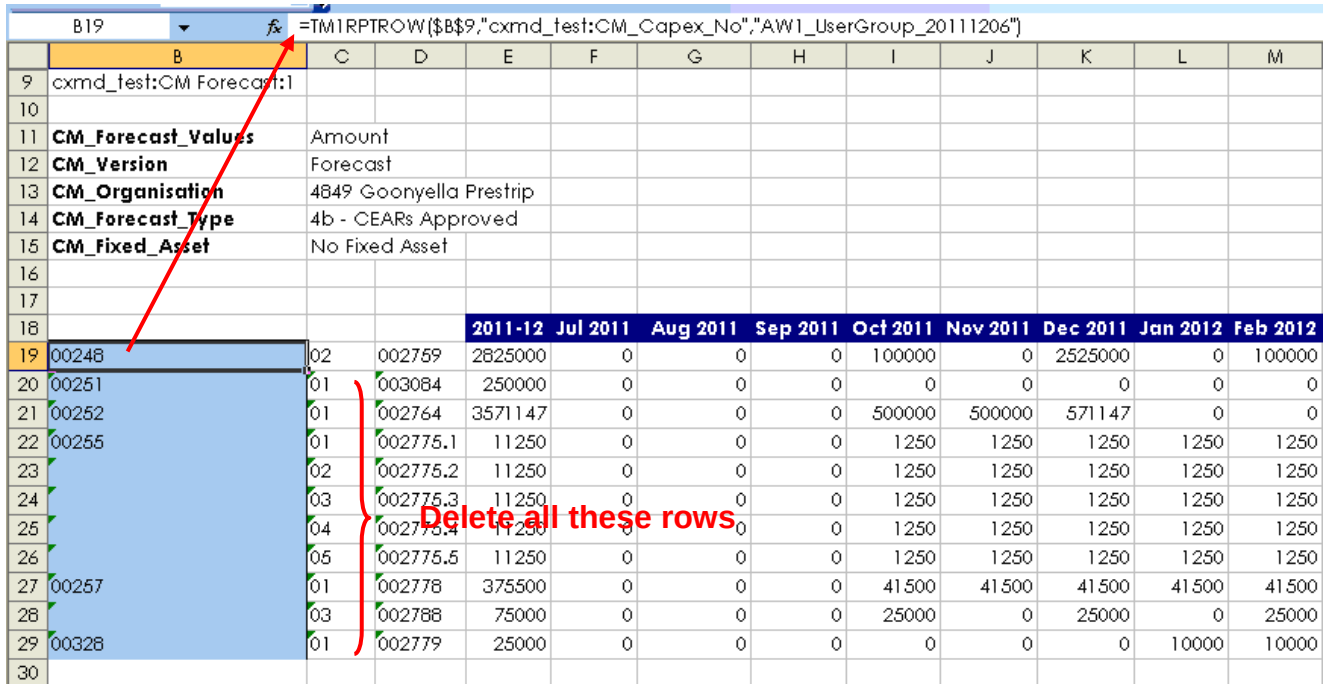
Top Ten Tips

4. Before publishing the Active Form delete all rows below the TM1RPTROW function



	B	C	D	E	F	G	H	I	J	K	L	M
9	cxmd_test:CM Forecast:1											
10												
11	**CM_Forecast_Values**	Amount										
12	**CM_Version**	Forecast										
13	**CM_Organisation**	4849 Goonyella Prestrip										
14	**CM_Forecast_Type**	4b - CEARs Approved										
15	**CM_Fixed_Asset**	No Fixed Asset										
16												
17												
18				**2011-12**	**Jul 2011**	**Aug 2011**	**Sep 2011**	**Oct 2011**	**Nov 2011**	**Dec 2011**	**Jan 2012**	**Feb 2012**
19	00248	02	002759	2825000	0	0	0	100000	0	2525000	0	100000
20	00251	01	003084	250000	0	0	0	0	0	0	0	0
21	00252	01	002764	3571147	0	0	0	500000	500000	571147	0	0
22	00255	01	002775.1	11250	0	0	0	1250	1250	1250	1250	1250
23		02	002775.2	11250	0	0	0	1250	1250	1250	1250	1250
24		03	002775.3	11250	0	0	0	1250	1250	1250	1250	1250
25		04	002775.4	11250	0	0	0	1250	1250	1250	1250	1250
26		05	002775.5	11250	0	0	0	1250	1250	1250	1250	1250
27	00257	01	002778	375500	0	0	0	41500	41500	41500	41500	41500
28		03	002788	75000	0	0	0	25000	0	25000	0	25000
29	00328	01	002779	25000	0	0	0	0	0	0	10000	10000
30												

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5. Any lookups to cube that are used in other formulas need to be a DBR rather than DBRW

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
9	cxmd_test:CM Forecast:1														
10															
11	**CM_Forecast_Values**	Amount													
12	**CM_Version**	Forecast													
13	**CM_Organisation**	4849 Goonyella Prestrip													
14	**CM_Forecast_Type**	4b - CEARs Approved				=DBR("cxmd_test:CM CEAR",R13C3,R[5]C2,R18C5)									
15	**CM_Fixed_Asset**	No Fixed Asset					=DBRW("cxmd_test:CM Forecast:1",C12,C14,C13,$D19,$B19,$C19,$C$15,F$18,C11)								
16	**Other cube**	cxmd_test:CM CEAR													
17															
18				**Status**	**2011-12**	**Jul 2011**	**Aug 2011**	**Sep 2011**	**Oct 2011**	**Nov 2011**	**Dec 2011**	**Jan 2012**	**Feb 2012**	**Mar 2012**	**Apr 2012**
19	00248	02	002759	Approved	2825000	0	0	0	100000	0	2525000	0	100000	0	100000
20	00251	01	003084	Approved	250000	0	0	0	0	0	0	0	0	0	0
21	00252	01	002764	Completed	3571147	0	0	0	500000	500000	571147	0	0	0	500000
22	00255	01	002775.1	Approved	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250
23		02	002775.2	Approved	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250
24		03	002775.3	Approved	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250
25		04	002775.4	Approved	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250
26		05	002775.5	Approved	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250
27	00257	01	002778	Approved	375500	0	0	0	41500	41500	41500	41500	41500	41500	41500
28		03	002788	Approved	75000	0	0	0	25000	0	25000	0	25000	0	0
29	00328	01	002779	Approved	25000	0	0	0	0	0	0	10000	10000	5000	0
30															

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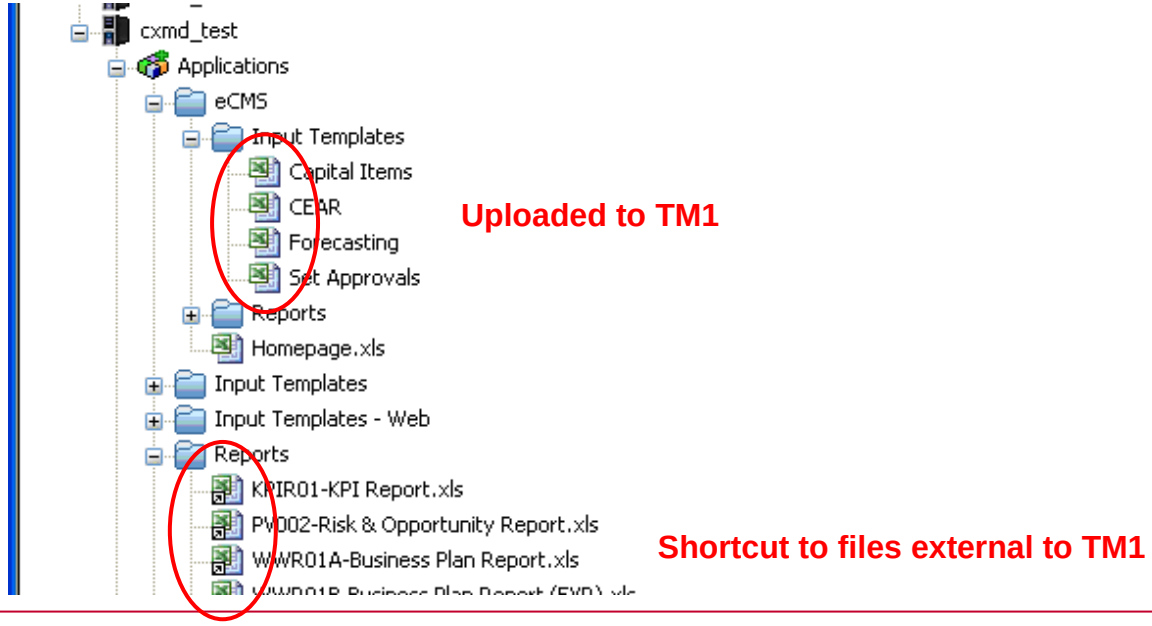
Top Ten Tips

6. Workbooks perform best when uploaded to TM1 Server (copied to TM1 server through Add File route), subsequent navigation options via action buttons should then have “Look In: TM1 Applications” selected



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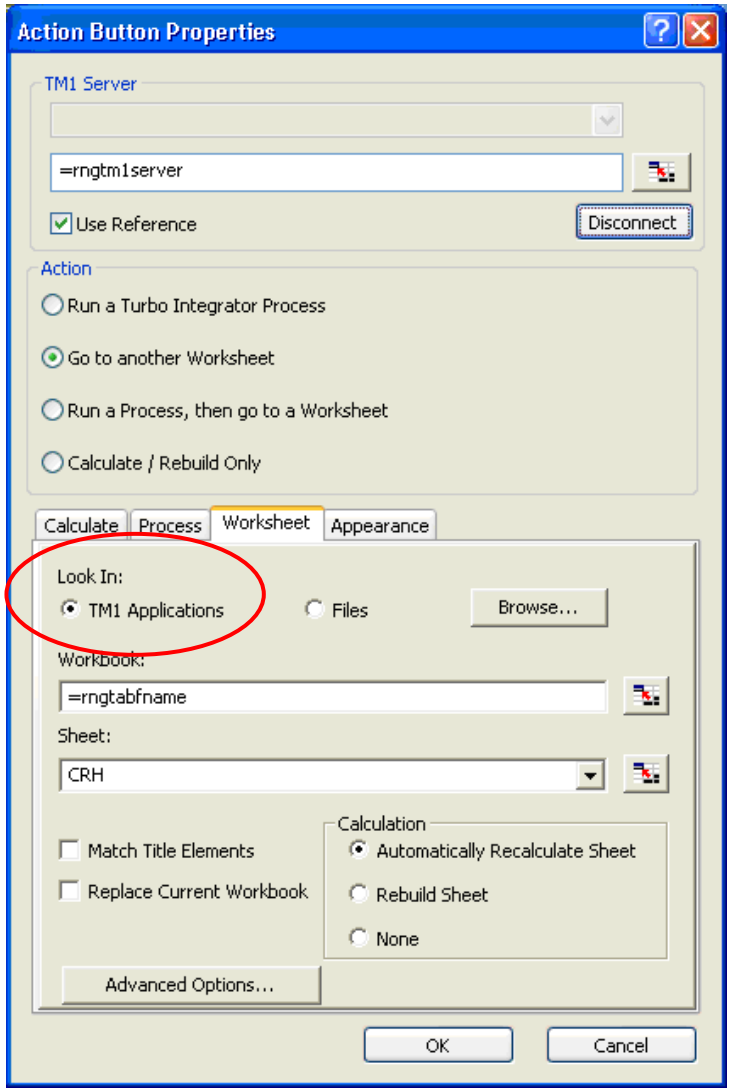

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Top Ten Tips

7. Try to minimise the number of worksheets in a workbook. We have found some workbook open errors when more than 7 or 8 worksheets are involved.

				2011-12	Jul 2011	Aug 2011	Sep 2011	Oct 2011	Nov 2011	Dec 2011	Jan 2012	Feb 2012	Mar 2012	Apr 2012	May 2012	Jun 2012
19	00248	02	002759	2825000	0	0	0	100000	0	2525000	0	100000	0	100000	0	0
20	00251	01	003084	250000	0	0	0	0	0	0	0	0	0	0	0	250000
21	00252	01	002764	3571147	0	0	0	500000	500000	571147	0	0	0	500000	0	1500000
22	00255	01	002775.1	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
23		02	002775.2	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
24		03	002775.3	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
25		04	002775.4	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
26		05	002775.5	11250	0	0	0	1250	1250	1250	1250	1250	1250	1250	1250	1250
27	00257	01	002778	375500	0	0	0	41500	41500	41500	41500	41500	41500	41500	41500	43500
28		03	002788	75000	0	0	0	25000	0	25000	0	25000	0	0	0	0
29	00328	01	002779	25000	0	0	0	0	0	0	10000	10000	5000	0	0	0

Sheet1 / Sheet2 / Sheet3 / Sheet4 / Sheet5 / Sheet6 / Sheet7 / Sheet8 / Sheet9 / Sheet10

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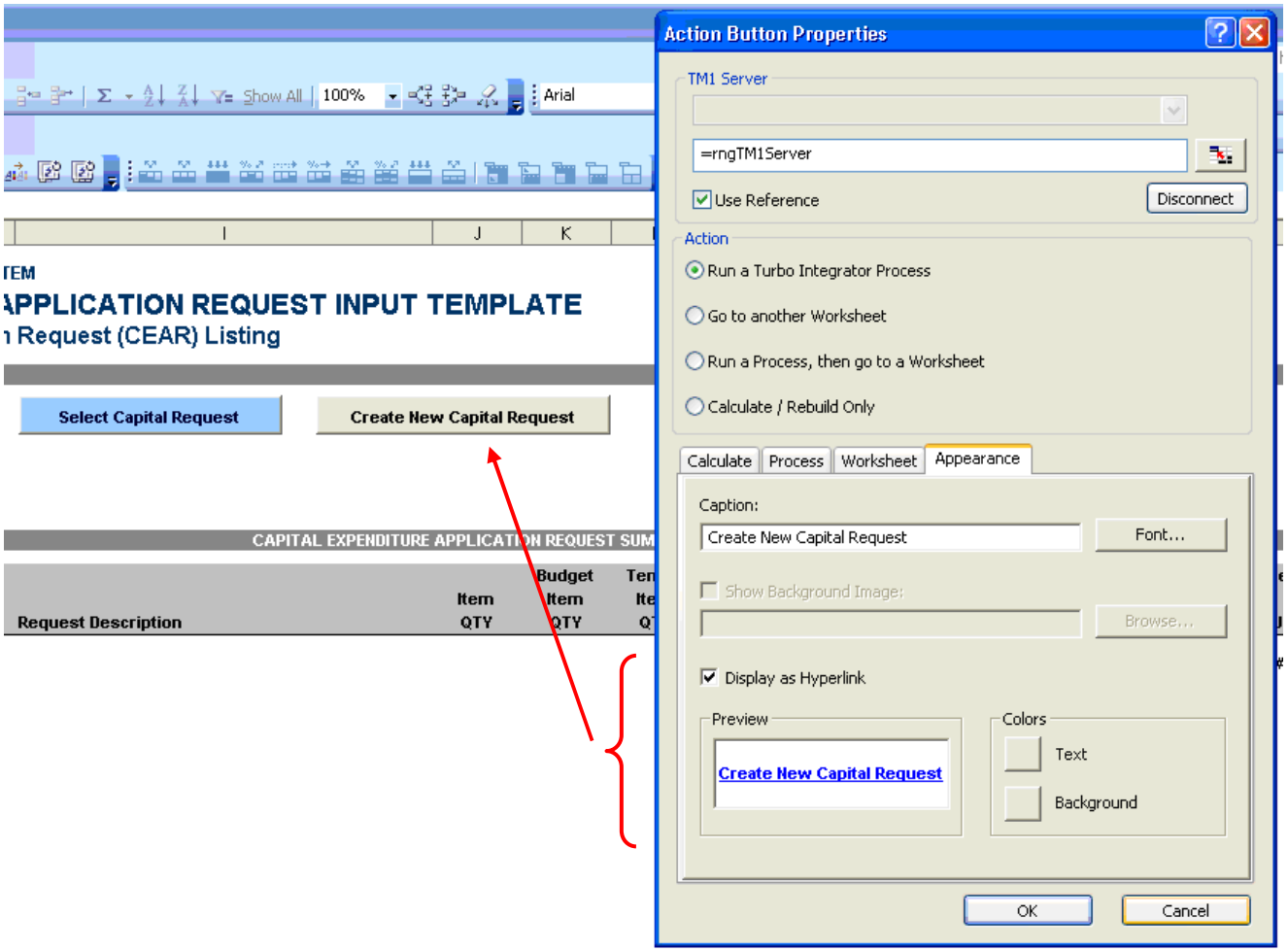
Top Ten Tips

8. Try not to use Action buttons formatted as hyperlinks



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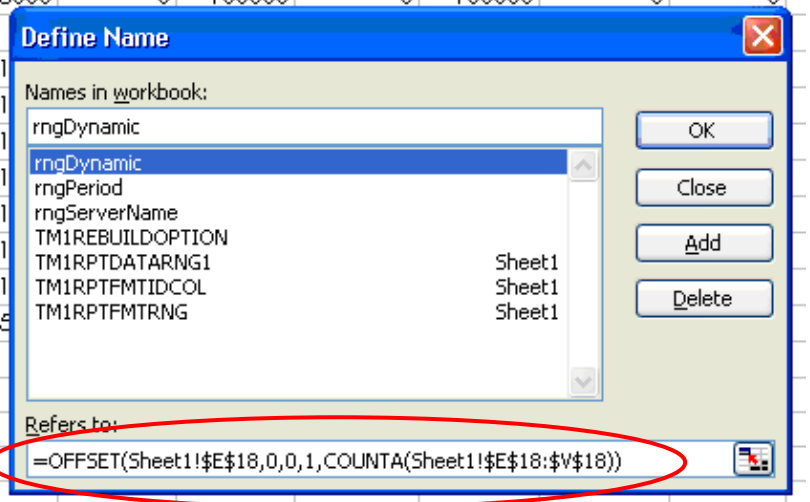
Top Ten Tips

9. Don’t use dynamic named ranges, i.e. ranges that are not visible to objects within the workbook

	2011-12	Jul 2011	Aug 2011	Sep 2011	Oct 2011	Nov 2011	Dec 2011	Jan 2012	Feb 2012	Mar 2012	Apr 2012	May 2012	Jun 2012
002759	2825000	0	0	0	100000	0	2525000	0	100000	0	100000	0	0
003084	250000	0	0	0	0	0							
002764	3571147	0	0	0	500000	500000	571						
002775.1	11250	0	0	0	1250	1250	1						
002775.2	11250	0	0	0	1250	1250	1						
002775.3	11250	0	0	0	1250	1250	1						
002775.4	11250	0	0	0	1250	1250	1						
002775.5	11250	0	0	0	1250	1250	1						
002778	375500	0	0	0	41500	41500	41						
002788	75000	0	0	0	25000	0	25						
002779	25000	0	0	0	0	0							



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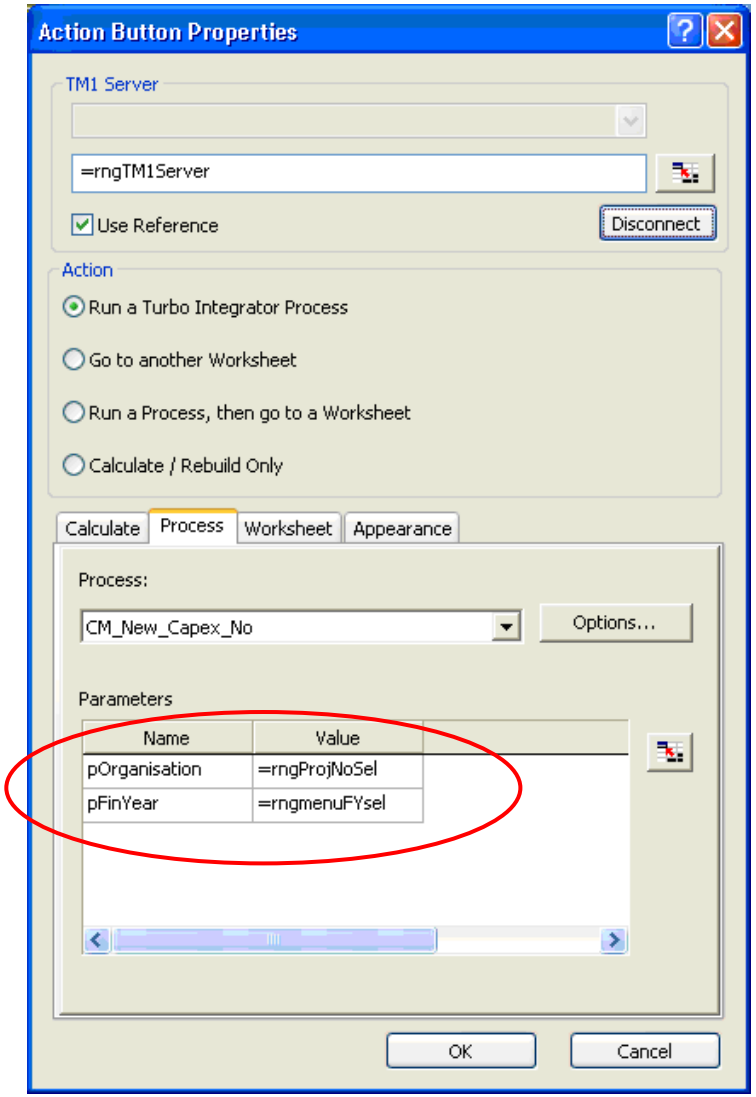
Top Ten Tips

10. Use named ranges in action button properties rather than cell references e.g. use **=rngTM1Server** in stead of **='Sheet1'A1**



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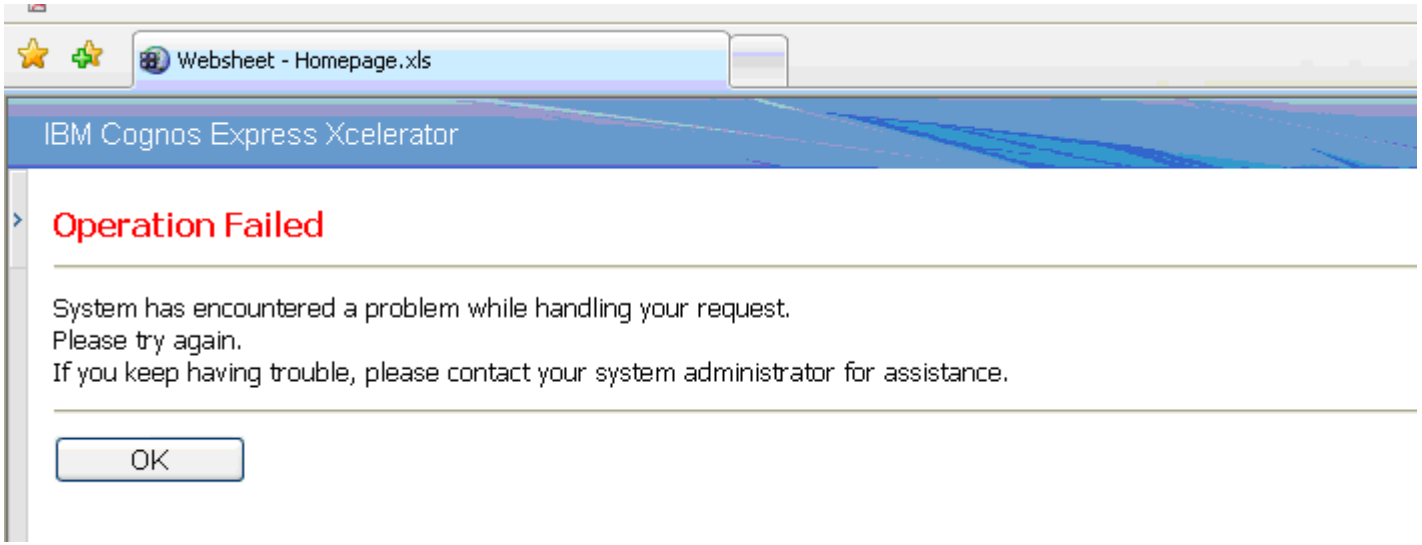
Another Top Tip…

Regularly publish and test your Active Form in web!



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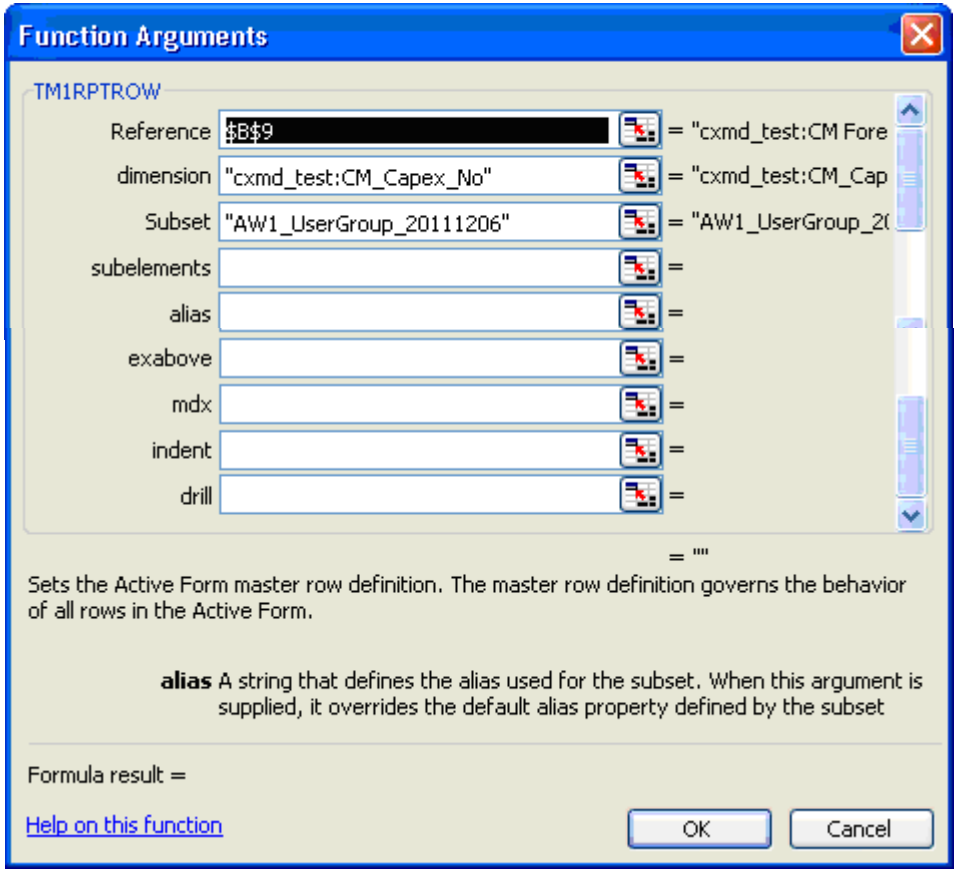
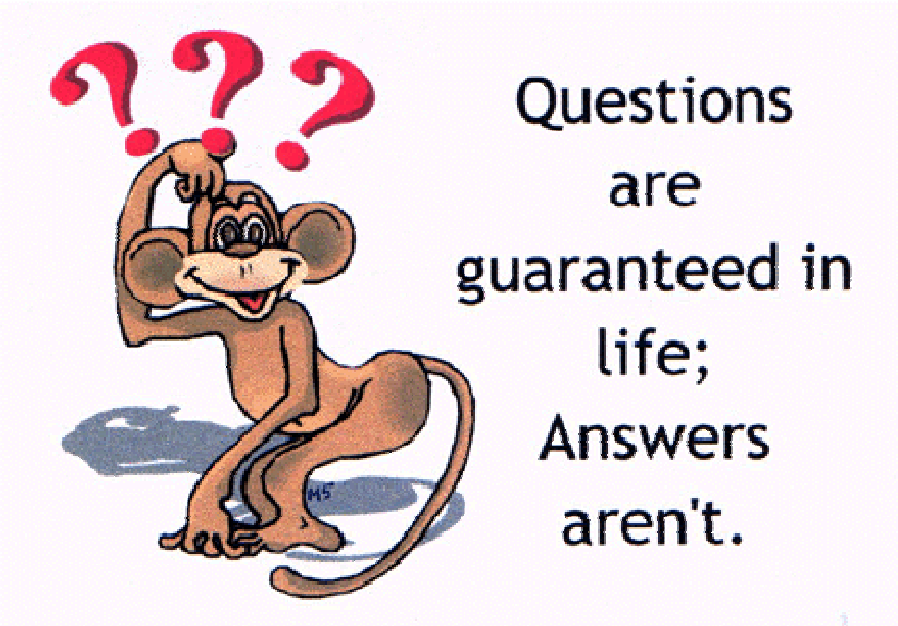
A Last Top Tip…

Use the “fx” function builder in Excel to construct your Active Form functions, especially the TM1RPTROW() function



Finally, Any Questions?