

# TECH TIP

# DATA CUBE IN SHELL DASHBOARD ORACLE PRIMAVERA UNIFIER

The ability to view a snapshot of current information is an invaluable feature of project management systems. This data could be focused at the enterprise-level or down to the project-level, and accessed without the need to run a report. Dashboards provide this necessary insight used by senior management as well as project managers and project administration. Unifier has built-in dashboard functionality more commonly known as shell dashboards.

Data cubes are the data source for dashboards known as shell dashboards. In our tech tip we will create a data cube and use it within a user dashboard. This example will count 'Request for Information' business process records for all projects and have the ability to drill-down to the status breakdown per project. The drill-down feature is a very useful feature to provide a lower level detail of the data.

#### 1. Data Cube Creation Permissions

The create permissions must be set for the user(s) or group(s).

Go to the Company Workspace > Admin Mode > Access Control.

Select Administration Mode Access > Data Structure Setup > Data Cube Definitions from the Access Control modules pane.

Company Work +			
Navigate To	🏠 🕨 Company Wor		
User Admin	File Edit View Help		
• •	🗊 New 🖙 Open 🔍 Find 📲 Access Information		
fil DRMcnatty	Access Control		
	Click on a module to change access control settings		
A License Manager	Modules For:		
Partner Companies	□ Q Administration Mode Access □ ∰ Company Properties		
🗖 uDesigner 🛛 🕀	E - Jucense Manager		
Data Structure Setup	Server Partner Companies		
Data Structure Setup	⊞ ■ uDesigner		
The Access Control	□··■ Data Structure Setup		
• • • • • • •	⊡ ■ System Modules		
♣ User Administration ⊕	Data Cube Definitions		

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A window appears which lists the users or groups already assigned with Data Cube Definitions permissions.

Click the 'Add' button.

Permission Settings for. Data Cube Definitions						
🔲 First Name 👻	Last Name	Company/Manager	Permission			
Support			Create/Modify/View			
Add Modi	ify Remove					
	Др	ріу ОК	Cancel			

From this window the lower pane lists the two available permissions that can be assigned ('Create/Modify' and 'View'). Click the 'Add Users/Groups' button.

Permissions Setti	ng for: Data Cube Defin	nitions
Select Users/Grou	os	
First Name 🔺	Last Name	Company/Manager
	Add Users/Groups	
Permission Setting	s:	
Create/Modify		
View		
	OK Car	ncel



Select the user (our example is Company Administrator) and click the 'Add' button. The user appears in the lower pane. Click the 'OK' button to return to the previous window.

Q Find	List Names from: DRMcr	natty	Show By:	Users/Groups	•
Users/Groups - Current View: A	di .				
40 Item(s)	Page	1 of 1		Display 100 🔻	Items Per Page
Name	<ul> <li>Company</li> </ul>				
All Company Users					
All Project Coordinators					
Amy Eich					
Ashley Lin	DRMcnatty				
Ben Lee	DRMcnatty				
Bill O	DRMcnatty				
Brian Criss	DRMcnatty				
Cesar Ho	McNatty Co	nstruction Services, Inc.			
Cesar Hoe	DRMcnatty				
Company Administrator	DRMcnatty				
Company Administrators					
Contract Coordinators					
Creator					
Darryl Townsend	DRMcnatty				
Don McNatty	DRMcnatty				
•					•
Add	\ \	/iew Profile		Membe	ers
Selected Users/Groups					
Name	•				
Company Administrator					
1					•
ОК		Remove		Cancel	



Check both permission settings in the lower pane to assign to the user. Click the 'OK' button to return to the previous window.

Select Users/Groups	g for: Data Cube Defir	nitions
First Name 🔺	Last Name	Company/Manager
Company	Administrator	DRMcnatty
Permission Settings	Add Users/Groups	
Create/Modify     View		
	OK Car	ncel

The window lists the added user (Company Administrator) and its assigned permissions. Click the 'OK' button in this window to complete the settings.

The user can now create, modify and view Data Cubes.

Permission S	ettings fo	r: Data Cube Definitio	ns	
First Name	<b>^</b>	Last Name	Company/Manager	Permission
Company		Administrator	DRMcnatty	Create/Modify/View
Support				Create/Modify/View
Add	Modi	fy Remove		
		Ар	орју ОК	Cancel



#### 2. Create the Data Cube

Go to the Company Workspace > Admin Mode > Data Structure Setup > Data Cube Definitions.

Click 'New' from the Data Cubes log menu bar. A menu dropdown displays 'Company Data Cube' and 'Shell Data Cube'. In our example we selected Shell Data Cube.

A 'Company Data Cube' is used for company-level custom dashboards which is a specific dashboard feature only supported for legacy clients that used it.

Company Work	+				
Navigate To				<b>`</b>	• ⊾ Comp
User Ad	min	File Edit View Help			
	$\oplus \Theta$	🗊 New 🔻 🗣 Copy 🗃	Open	📝 Publish	ৎ Find
f DRMcnatty		Data Cub	Cube		
License Manager		16 Item(s	;		
Partner Companies		Name	Descri	ption	Туре
		Action Items			Shell
uDesigner	$\oplus$	Change Orders			Shell
Data Structure Setup	$\Theta$	Contracts			Shell
	Ŭ	Cost Sheet			Shell
System Modules		Incidents			Shell
Data Cube Definitions	\$	Invoices			Shell
Data Definitions		PO Amendments			Shell
		Payment Applications			Shell
Data Elements		Potential Change Orders			Shell
Data Indexes		Purchase Orders			Shell

From this popup window there are two source options 'Data Type' and 'Data View'. 'Data Type' provides a list of all published business processes and manager modules. 'Data View' provides a list of published Data Views.

Select 'Data Type' and the 'Requests for Information' business process from the dropdown list. Custom Defined is automatically set for the Element field.



Click the 'OK' button.

Create Data Cube
Source:  Data Type Data View
Requests for Information <ul> <li>Requests for Information</li> </ul>
Element: Custom Defined
OK Cancel

This new window is where the Data Cube is defined.

Enter an appropriate 'Name' in the General tab.

	General	Data Source	Data Elements	Query	
Us	ser Query				
1		Name: RF	I Status Data		*
		Description:			
1					
1					
1					
1					
1					
1		Data Type: Re	quests for Information		
1		Type: Sh	ell		
1					
1					
1					
1					
1					
1					
1					
			Apply	K Cancel	1
			Apply O	K Cancel	



Next is to add which data sources will make up the data cube. These are set in the Data Source tab.

Click the 'Add' button.

Data Sources				
Mana				
Name				
				A
				-
•				۱.
Add Rem	ove			
		Apply C	Cancel	

This window lists workflow, business processes, shells and any other related data sources. Multiple data sources allow the capture of a wide variety of information associated with the data type business process. The BP selected as the data type will still need to be selected from the list.

For this simple example only the 'Request for Information' data source is selected. Clicking the 'OK' button will return you to the previous window.

Name		
Requests for Information /		
Attachment /		
Company /		
Contract /		
Creator /		
General Comment /		
Published Documents /		
Shell /		
Specification Section /		
Workflow /		
Attachment / Comment /		
Attachment / Markup /		
Attachment / Reference File /		
Company / Company Accounts Su	Immary in Base Currency /	
Company / Company Funding Sur	nmary in Base Currency /	
Contract / Contract Main Contact /		
Contract / P6 Activity /		
Contract / Request For Bid /		
Contract / Specification Section /		
Contract / Vendor /		



'Request for Information' is now displayed as the data source.

General	Data Source	Data Elements	Query	
Data Sources				
Name				
Requests for Informa	ation /			•
				-
•				•
Add R	emove			
		Apply C	K Cancel	
				1

The Data Elements tab is where data elements can be selected. Additionally, calculated fields can also be added from the 'Add Functions..' button. This can create formulas using numeric data elements as well as data calculations.

For this example we are using only data elements. Click the 'Add Elements..' button.

General	Data Source	Data Elements	Query		
Data Elements					
Data Source	Label	Name	Туре	Group Summary	
					-
•					•
Add Functions Add	d Elements Modify	Remove		Move Up	Move Down
		Apply OK	Cancel		



The Data Elements list will appear. For what is required for the data cube we will select Project Number and Status and click the 'OK' button'.

Datasource	Name	Туре
Requests for Information /	Record No.	String
Requests for Information /	Title	String
Requests for Information /	Due Date	Timestamp
Requests for Information /	End Date	Timestamp
Requests for Information /	Record Last Update Date	Timestamp
Requests for Information /	Status	String
Requests for Information /	Creator	String
Requests for Information /	Schedule Impact Notes	String
Requests for Information /	Answer Signed By	String
Requests for Information /	Reference No	String
Requests for Information /	Category	String
Requests for Information /	Final Response	String
Requests for Information /	Publish Path	String
Requests for Information /	Answer	String
Requests for Information /	Cost Impact	String
Requests for Information /	Creation Date	Timestamp
Requests for Information /	Contract	String
Requests for Information /	Schedule Impact	String
Requests for Information /	Subcontractor Number	String
Requests for Information /	Answer Signed Date	Timestamn
4		•

Data Elements tab now shows our selection. Two additional columns 'Group' and 'Summary' need to be set.

Project Number and Status will both have Group set which make these available for grouping in the dashboard.

Setting Summary is not required for our example. Summary in the shell dashboard includes basic aggregate functions such as summation, average, minimum or maximum.

General		Data Source	Data B	Elements	Query					
ata Elements					-					
Data Source		Label		Name		Туре	Group	Summary		
Requests for Informa	ation /	Project Number		Project Nun	nber	String				
Requests for Informa	ation /	Status		Status		String	1			
										•
									•	•
	Id Eleme	ents Modify.		Remove				Move Up		-
	Id Eleme	ents Modify.		Remove				Move Up		-
	ld Eleme	ents Modify.			ик   с	ancel		Move Up		-



Query tab will be left empty since we do not require the user to enter a query parameter at runtime to filter the output.

General	Data Source	Data Elements	0	Query			
Query Conditions							
Data Name	Label		Condition	1	√alue(s)	AND/OR	
							•
Add Mo	odify Remove				Show results r	matching any co	ondition.
Add MC	Remove					(Instea	d of all)
		Apply	ок	Cancel			

Click 'OK' button to return to the main Data Cubes log.

The data cube must be published before it can be made available in User Mode. Published Date is initially blank. Click the 'Publish' button from the menu bar on the data cube.

С	company Work	+							
0	Navigate To				<b>`</b>	⊳ Com	pany Wor…		
	User	Admin	File Edit Vie	v Help					
		$\oplus \ominus$	🗊 New 🔻 💽	Copy 🛛 😅 Oper	📝 Publish	Q Find	📝 Tag 🔻		
<u>م</u> î ۱	ORMcnatty		Data Cubes - Cu	rrent View: All		1			
	icense Manager		18 Item(s)						Page
	Partner Companies		Name	▲ Des	cription	Туре	Source	Last Modified	Published Date
	anner Companies		Action Items			Shell	Action Items	01/28/2016	01/28/2016
<b>u</b>	ıDesigner		Change Orders			Shell	Change Orders	01/29/2016	01/29/2016
	Data Structure Setup	$\Theta$	Contracts			Shell	Contracts	12/08/2015	02/06/2017
		$\smile$	Contracts Data			Shell	Contracts	02/07/2017	
	System Modules		Cost Sheet			Shell	Cost Sheet - WBS	01/30/2016	01/30/2016
	Data Cube Definiti	ions	Incidents			Shell	Incident Reports	01/28/2016	01/28/2016
	Data Definitions	$\oplus$	Invoices			Shell	Invoices	01/28/2016	01/28/2016
			PO Amendments			Shell	PO Amendments	01/28/2016	01/28/2016
	Data Elements		Payment Applicat	ons		Shell	Payment Applicatio	01/28/2016	01/28/2016
	Data Indexes		Potential Change	Orders		Shell	Potential Change C	02/07/2017	01/28/2016
	Data Views		Purchase Orders			Shell	Purchase Orders	01/27/2016	01/27/2016
	Dynamic Data Sets	2	R15			Shell	Contracts	02/07/2017	02/07/2017
			RFI Status Data			Shell	Requests for Inform	02/07/2017	
	Public Searches		REIs to Owner			Shell	Requests for Inform	01/30/2016	01/30/2016



A message will appear saying the publishing was successful.



The published date for the data cube is now populated. It should be noted there is no 'Draft' or 'Published' modes so it is important to remember to publish the data cube after any change to its definition.

Company Work	+							
S Navigate To				<b>```</b>	► Compa	ny Wor		
User A	dmin	File Edit View	Help					
	$\oplus \ominus$	🗊 New 🔻 🗣 Cop	/ 🖻	Open 🛛 📝 Publish	R Find	🎖 Tag 🔻		
DRMcnatty	- 1	Data Cubes - Curren	t View:	All				
A License Manager		18 Item(s)						Page
Partner Companies		Name		Description	Туре	Source	Last Modified	Published Date
		Action Items			Shell	Action Items	01/28/2016	01/28/2016
uDesigner	$\oplus$	Change Orders			Shell	Change Orders	01/29/2016	01/29/2016
Data Structure Setup	Θ	Contracts			Shell	Contracts	12/08/2015	02/06/2017
·	$\sim$	Contracts Data			Shell	Contracts	02/07/2017	
System Modules		Cost Sheet			Shell	Cost Sheet - WBS	01/30/2016	01/30/2016
Data Cube Definition	ns	Incidents			Shell	Incident Reports	01/28/2016	01/28/2016
Data Definitions	$\oplus$	Invoices			Shell	Invoices	01/28/2016	01/28/2016
	× 1	PO Amendments			Shell	PO Amendments	01/28/2016	01/28/2016
Data Elements		Payment Applications			Shell	Payment Applicatio	01/28/2016	01/28/2016
Data Indexes		Potential Change Ord	ers		Shell	Potential Change C	02/07/2017	01/28/2016
Data Views		Purchase Orders			Shell	Purchase Orders	01/27/2016	01/27/2016
Dynamic Data Sets		R15			Shell	Contracts	02/07/2017	02/07/2017
		RFI Status Data			Shell	Requests for Inform	02/07/2017	02/07/2017
Public Searches		REIs to Owner			Shell	Requests for Inform	01/30/2016	01/30/2016



#### 3. Data Cube Creation Permissions

Now that the data cube is available in User Mode, we need to set permissions for its use in a shell.

We want our dashboard example to include data from all projects. To do this means the data cube needs to be accessible from the anchor shell (top of the shell hierarchy) where the dashboard will be created. (for more information on shell hierarchies please reference the previous Unifier Tech Tip on 'Creating Programs'.) Its configuration can be set to include all sub-shells data which is all the projects in the hierarchy.

Go to the anchor shell. In our instance it is XYZ Owner.

Go to XYZ Owner > Admin> Access Control > User Mode Access > Non-navigational Nodes > Data Cubes > RFI Status Data.

Note: If this data cube was not published it would not be seen in the list.





Selecting the newly available data cube from the list will open its Permission Settings window Adding users and assigning their permissions uses the same steps as when we assigned the Create/Modify and View permissions at the beginning of this Tech Tip.

Click the 'Add' button.

Permission Settin	gs for: <b>RFI Status Data</b>		
🔲 First Name 👻	Last Name	Company/Manager	Permission
Add	Modify Remove		
	Ap	oply OK	Cancel

Click 'Add Users/Groups' button.

	g for: RFI Status Data	
Select Users/Group		
First Name 🔺	Last Name	Company/Manager
	Add Users/Groups	
Permission Settings		
	nell and Sub-shells Dat	a
View Current	Shell Data	
	OK Car	ncel
-		



Select our user and click the 'Add' button. Company Administrator is used in this example and now appears in the lower pane. Click 'OK' to return to the previous window.

Q Find	List Names from: XY	/Z Owner	Show By:	Users/Groups •
Users/Groups - Current View: All				
18 Item(s)	F	Page 1 of 1		Display 100  Items Per Page
Name	<ul> <li>Compa</li> </ul>	any		
Amy Eich				A
Ashley Lin	DRMcr	natty		
Ben Lee	DRMcr	natty		
Brian Criss	DRMcr	natty		
Company Administrator	DRMcr	natty		
Danyl Townsend	DRMcr	natty		
Don McNatty	DRMcr	natty		
Jennifer Morgen				
Jill Lloyd				
Jonathan McNatty	DRMcr	natty		
Kristian Bar				
Pam Powrie	DRMcr	natty		
Project Administrators				
Rudy Ising	DRMcr	natty		
Scott Lonian				
		,		•
Add		View Profile		Members
Selected Use <mark>rs/Croups</mark>				
Name	*			
Company Administrator				
•				•
OK		Remove		Cancel



The permissions can now be set to this user. View Current Shell and Sub-shells Data is the permission required. View Current Shell Data is auto-selected since it is a child permission. Click the 'OK' button.

Permissions Setting	for: RFI Status Data	
Select Users/Groups		
First Name 🔺	Last Name	Company/Manager
Company	Administrator	DRMcnatty
Permission Settings:		
_	ell and Sub-shells Dat	a
✓ View Current S	hell Data	
	OK Car	ncel

Click the 'OK' button.

The data cube is ready for use in the anchor shell.

) First Name	<ul> <li>Last Nan</li> </ul>	e Company/Ma	nager Permission
Company	Administ	ator DRMcnatty	View Current Shell and Sub-shells Data/View C
Add	Modify	Apply	OK Cancel



#### 4. Create the dashboard.

Our anchor shell landing page (in User mode) displays the default shell dashboard tab (Summary) with four dashboard sections (referred to as blocks). To create our dashboard (block) we select Dashboard from the Edit menu.



The following window is the Edit Dashboard. The top pane references the dashboard tabs set up. The lower pane references the specific dashboard blocks.

There are five dashboard block types when clicking the 'Add' button:

- 1. Analytics data derived from Primavera Analytics platform
- 2. Custom data with no drilldown capability
- 3. Drilldown data with drilldown capability
- 4. Portlet display a URL link
- 5. Standard data based on predefined options



For our example "Drilldown" will be selected.

Dashboard Layou Use Custom Da						Selec	ct
Tab Name			Tab L	ayout	Show	Filters	
Summary			1 2 5	2 4 5			
Tab2			3	2 4 5			
Tab3			1 3 5	2 4			
Tab4			1 3 5	2 4 5			
Tab5			ļ	2	Π		Þ
Source Details						Filters	s
Block Order	Block Title	Source Name		Block Type	Result Type	Display Type	
1 ,	Image	Image		Standard			
Analytics	Items Requiring Yo	ur At Items Requiring Your	Attention	Standard			
Custom	Details	Details		Standard			
Drilldown	Links	Links		Standard			
Portlet							•
	Modify Remove				Me	ove Up Move D	lown

The Edit Drilldown Block window appears. Click the 'Select' button for the Data Cube field to include the one needed.

Drilldown E	Block						
Report D	Details						
Data C	ube:				Select	*	
Block 1	Fitle:				*		
Block F	Filter Elements:				Select		
Drilldow	n Detail						
	1	1					
Order	Chart Type	Title	Group By	Report On	Value	Result Type	
							-
•						•	
Add	. Modify	Remove			Mov	e Up Move Do	wn
		Apply		Cancel			
		1.444.0					



Select 'RFI Status Data' from the popup list and click the 'Open' button.

😅 Open 🔍 Find						
User-Defined Data Cubes	- Current View: All					
3 Item(s)		Page 1	of 1	Display	100 T Items Pe	r Page
Name	Description		Data Type	Last Modified	Published Date	
RFI Status Data			Requests for Infor	02/08/2017	02/08/2017	
R15			Contracts	02/07/2017	02/07/2017	
Contracts			Contracts	12/08/2015	02/06/2017	

The data cube is auto-populated. The Block Title could be changed if required.

To add the dashboard display click 'Add..' button from the Drilldown Detail section.

Drilldown B	Block											
Report D	Details											
Data C	Data Cube:			atus Data				Se	elect	*		
Block 1	Block Title:			atus				*				
Block F	Filter Ele	ements:		Select								
Drilldow	/n Detai	I ———										
Orden	Object	T	7:41-		Orrest Dec		Denet On	) (= lu u		Desult	T	
Order	Chart	туре	Title		Group By		Report On	Value	8	Result	туре	
												-
•									_		•	
Add		Modify	Remove	Э					Move	e Up	Move Do	wn
				Apply	ОК	1	Cancel					
			_	175								



The following will be added to this window:

- 1. Title: As appropriate.
- 2. Show Data From: Select 'Sub-shells Only' so we can include all projects data.
- 3. Display Type: Select Column Chart for this example.
- 4. Source Grouped By: Based on our Grouping selections from the data cube we will select Project Number.
- 5. Output Type: Select 'Record Count'.
- 6. Show Total: Check this box.
- 7. Decimal Places: Change to 0.
- 8. Leave other fields as is.

These settings will perform a count of all 'Request for Information' records per project and display as a column chart.

Click 'OK' button to return to previous screen.

Edit Drilldown Details	
Title:	Total RFI Count *
Show Data From:	Sub-Shells Only
Display Type:	Column Chart 🔻
Source Grouped By:	Project Number Select *
Output Type:	Record Count Summary Value
Report On:	Select
Summary Type:	<b>v</b>
Show Result:	Actual Value
Show Total:	
Decimal Places: Currency Format:	0 T
Cullency Format.	None .
	OK Cancel



The lower level (drilldown) detail needs to be added. Click the 'Add...' button again.

Report	Details						
Data (	Cube:	RFI Status Data		Select.	. *		
Block	Title:	RFI Status			*		
Block	Filter Elements:				Select.		
	vn Detail	THE	Crown Dr.	Deport Or	Value	Deput Tur-	
Order 1	Chart Type Column Chart	Title Total RFI Count	Group By Project Number	Report On	Value	Result Type Actual Value	
· ·	Column Chart	Total I ti I Count	ridjeet Namber			Actual value	
4							Ŧ

The following will be added:

- 1. Title: As appropriate.
- 2. Show Data From: Select 'Sub-shells Only' again.
- 3. Display Type: Select Pie Chart this time.
- 4. Source Grouped By: Based on our Grouping selections from the data cube we will select Status.
- 5. Output Type: Select 'Record Count'.
- 6. Show Total: Check this box.
- 7. Decimal Places: Change to 0.
- 8. Leave other fields as is.

These settings will perform a record count of each status (per project) displayed as a pie chart.



Click the 'OK' button to return to previous screen.

	RFI Status Count *
Show Data From:	Sub-Shells Only
Display Type:	Pie Chart V
Source Grouped By:	Status Select *
Output Type:	Record Count      Summary Value
Report On:	Select
Summary Type:	<b>v</b>
Show Result:	Actual Value 🔹
Show Total:	
Decimal Places:	0 •
Currency Format:	None

The drilldown block is now complete. It is worth mentioning that additional drilldown detail can be added so long as graphical chart types are used. Once a tabular chart is used you cannot add more drilldown details.

Click the 'OK' to return to previous window.

Report	Details						
Data (	Cube:	RFI Status Data		Select.	. *		
Block	Title:	RFI Status			*		
Block	Filter Elements:				Select.	.	
Order	Chart Type Column Chart	Title Total RFI Count	Group By Project Number	Report On	Value	Result Type Actual Value	
Order	Chart Type	Title	Group By	Report On	Value	Result Type	
	Column Chart	Total RFI Count	Project Number			Actual Value	-
1 2	Pie Chart	RFI Status Count	Status			Actual Value	
2		RFI Status Count	Status				-
	Pie Chart	RFI Status Count	Status		N		↓ own



Select the newly created dashboard block from the Source Details lower pane and continue to click the 'Move Up' button until it reaches the top. The Image block can be moved down using the 'Move Down' button.

Dashboard Layou						Selec	
Tab Name			Tab Lay	out	Show	Filters	
Summary			1 2 3 4 5 5				ľ
Tab2			1 8 3 4 5 5				
Tab3							
Tab4			2 4 5 5				
Table			1 2				•
Source Details						Filters	
Block Order	Block Title	Source Name	В	lock Type	Result Type	Display Type	1
1	RFI Status	RFI Status Data	D	rilldown			
2	Details	Details	s	tandard			П
3	Items Requiring Your	At Items Requiring Your A	Attention S	tandard			
4	Image	Image		tandard			
5 •	Links	Links	S	tandard			•
Add 🔺	Modify Remove				Mo	ve Up Move D	nwn

Our dashboard can be seen at the top of the Summary tab. Click the 'Maximize' icon in the top right corner of the block to maximize the dashboard.

XYZ Owner - Home						View Dashboard My Dashboard	• 🖨 🗆
Summary							
Total RFI Count					Details		
40					Owner Number:	XYZ-01	
20					Owner Name:	XYZ Owner	
0					Description:		
P-0001	P-0008	P-0009	P-0011	P-0012	Administrator:	Company Administrator	
Total: Count: 281			>		Currency:	United States Dollar (USD)	
					Status:	Active	
Count					Email Address:	1128-unifierdemo161@drmcnatty.com	
Items Requiring Your Atte	tention				Image		
Tasks:	0, New 0, Late 0						
Messages:	0 New						
Draft Records:	0 New						
uMails:	0 New						



The dashboard is a column chart displaying 'Request for Information' record counts per project. Hover over each column (project) to show the exact record count. Double-click on a column to drill down to the next level of detail.



The next dashboard is the pie chart which breaks down the project's record count by the statuses "Approved" and "Pending".



Dashboards are a great way to track KPIs for project performance. Unifier provides users with the ability to quickly set up dashboards and data cubes without the need for any coding.

