

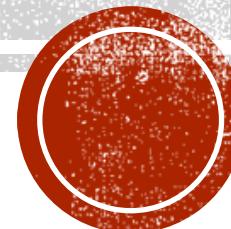


DEVOPS FOR SIEBEL CRM

Feature Overview

Version 21.4

April 2021



WHAT'S DEVPOPS?

- A collection of educational samples for Siebel Open UI
- Siebel Open UI extensions to facilitate common developer tasks
- A community effort
- Open Source



GET IT ON GITHUB

- <https://github.com/blacksheep-crm/devops>

The screenshot shows the GitHub repository page for 'blacksheep-crm / devops'. The repository has 1 branch and 0 tags. The main branch contains 82 commits. The latest commit is 'blacksheep-crm Update README.md' by '4a80c12' 3 days ago. Other files include 'BCRM NEO RR Data.sif', 'BCRM Server Manager Service.sif', 'BCRM Workspace Helper Data.sif', 'BCRM Workspace Helper UI.sif', 'FWK Runtime.xml', 'README.md', 'SiebelQueryLang.js', 'postload.js', 'ui.multiselect.js', and 'v'. The repository has 5 forks, 6 stars, and 0 open issues. It includes sections for About, Releases, Packages, and Languages.

About
Combining utilities from blacksheep and the Siebel community into a unique developer toolkit.

Releases
No releases published
[Create a new release](#)

Packages
No packages published
[Publish your first package](#)

Languages
JavaScript 100.0%

READ THIS!

devops

STRICTLY EDUCATIONAL. DO NOT USE IN MISSION-CRITICAL ENVIRONMENTS!



WHAT'S NEW IN 21.4?

- Web Tools:
 - Register View Button
 - Screens Menu
- Infrastructure
 - devops Persistent Storage
- Fast Inspect
 - Auto Cache Refresh
 - Fast Inspect Options
- Menu Persistence
- Break Free! Demo
 - Edit Form Applet Layout in Application



NEW IN 21.4: WEB TOOLS REGISTER VIEW

The screenshot illustrates the 'Register View' feature in Oracle Web Tools. A modal dialog titled 'Pick or Add Responsibility' is open, showing a list of responsibilities including 'devops', 'My New Resp', 'Alex 495', 'BCRM', and 'ALEX TEST 2'. An arrow points from this dialog to the 'Responsibilities' section of the main interface, which lists 'devops' as a selected responsibility. The main interface also displays a list of views such as 'Auto All Vehicles across Organizations View', 'Auto Vehicle Contacts View (SDW)', 'Auto Vehicle Detail View', and 'Auto Vehicle Explorer View'. The 'Views' section shows a list of registered views like 'A Account Action Plan View', 'Account Detail - Revenue Schedule Smart Script View', etc. The 'Users' section lists users with their roles. A large callout bubble in the bottom left corner contains the text: 'The ultimate time saver. Register views directly from Web Tools Screen View'.

Pick or Add Responsibility

Responsibility: devops

- devops
- My New Resp
- Alex 495
- BCRM
- ALEX TEST 2

Register Cancel

eAuto My Vehic... ID_SCREENS

Register View + ⚡ 1 - 10 of 10+

Auto All Vehicles across Organizations View

Auto Vehicle Contacts View (SDW)

Auto Vehicle Detail View

Auto Vehicle Explorer View

Responsibilities

Clear Cache

Responsibility	Description	Organization	Web Access
devops	created by devops	Default Organi...	

Views

View Name	Description	Local Access	Read Only View
A Account Action Plan View	A Account Act...	<input checked="" type="checkbox"/>	
Account Detail - Revenue Schedule Smart Script View	Account Detail...	<input checked="" type="checkbox"/>	
Action Screen Homepage View	Action Screen ...	<input checked="" type="checkbox"/>	
Activity Chart View - New Activities Analysis	Activity Chart ...	<input checked="" type="checkbox"/>	
Activity Explorer View	Activity Brows...	<input checked="" type="checkbox"/>	
BCRM Test View 04		<input checked="" type="checkbox"/>	
Pharma Meeting Attachment View	Pharma Meeti...	<input checked="" type="checkbox"/>	

Users

Last Name	First Name	User ID	Job Title
Administrator	Siebel	SADMIN	Sys Admin
Two	Developer	DEV2	Dev

The ultimate time saver.
Register views directly from
Web Tools Screen View

NEW IN 21.4: WEB TOOLS SCREEN MENU

The screenshot shows the Oracle Siebel Web Tools interface with the new Screen Menu. The menu is located at the top right of the screen, just below the main navigation bar. It contains a list of recently used views, such as 'Administration - Server Configuration' and 'Administration - Application'. The menu has a dark background with white text and a blue header bar.

Dat retro feel

Remembers recently used views

Limited to what Oracle has put in Siebel Web Tools

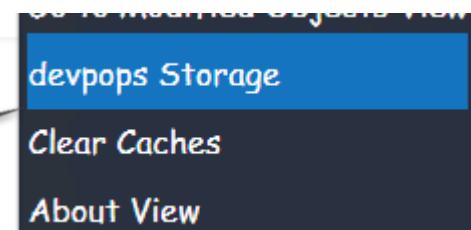
Right-click a recent view item to delete it.

A red circular button is located in the bottom right corner of the image.

NEW IN 21.4 DEVPOPS STORAGE

- Persisted to Server DB
 - hijacking Client Side Business Services for demo
 - could use custom tables
- Uses REST API to set and get storage items
 - Web Tools Screen Menu: Recently Used Views
 - Fast Inspect Options
 - Break Free Applet Configuration/Layout

New menu item

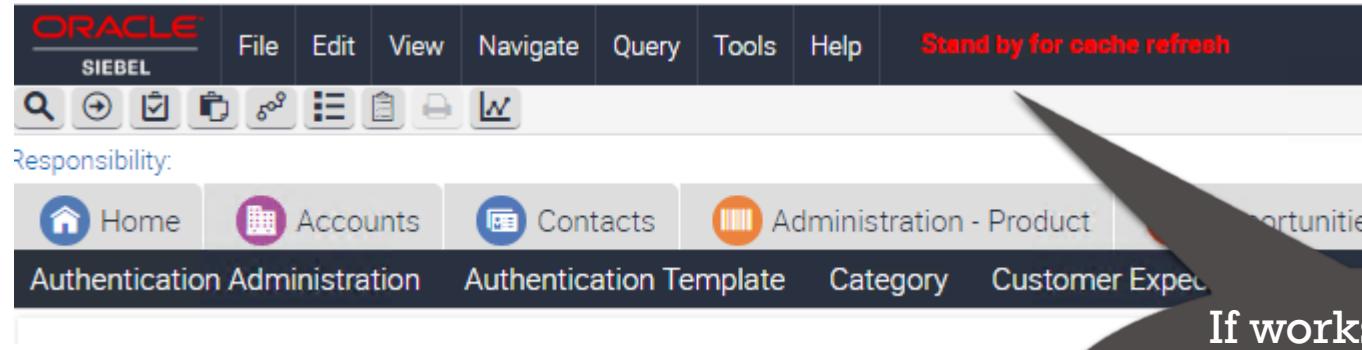


A screenshot of a software editor titled 'devpops Storage Items'. The editor displays a JSON configuration for a storage item. A callout bubble points to the right side of the editor window with the text 'Simple editor included'. The JSON code shown includes sections for 'free', 'HTML_FormSection_Label_1', and 'HTML_FormSection3_Label_1'.

```
[{"free": { "seq": 0, "id": "free", "caption": "General", "fields": [ "Public", "Name" ] }, "HTML_FormSection_Label_1": { "caption": "Account Information", "id": "HTML_FormSection_Label_1", "fields": [ "Industry", "Annual Revenue", "Location", "Date Formed", "Revenue Growth", "Partners", "Employees", "Parent Account Name", "Key Competitors", "Employee Here" ] }, "HTML_FormSection3_Label_1": { "caption": "Pricing and Purchasing Information", "seq": 2, "id": "HTML_FormSection3_Label_1", "fields": [ "PO Approved Flag" ] } }]
```



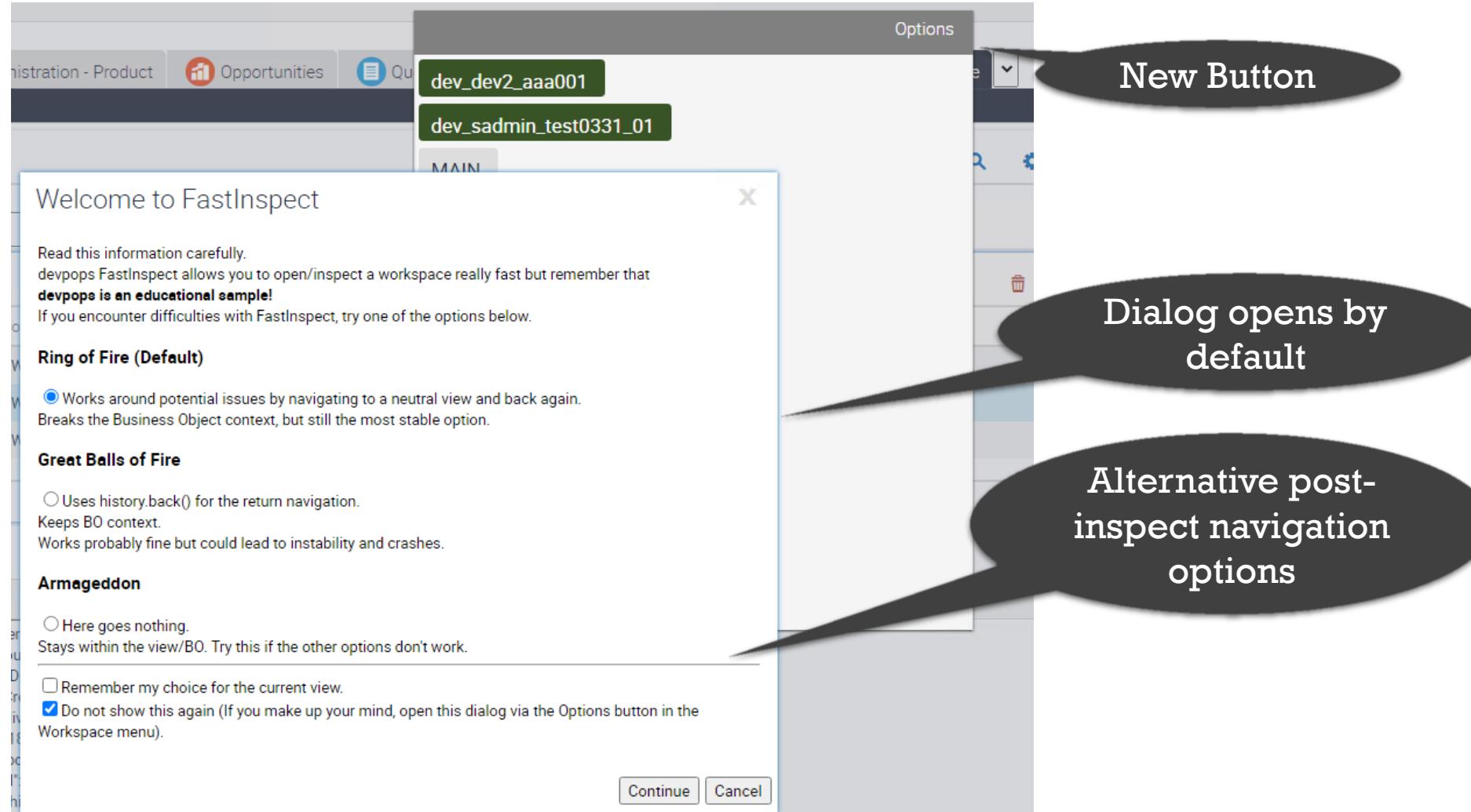
NEW IN 21.4: AUTO CACHE REFRESH



If workspace includes a
Screen update, caches
are reloaded
automatically

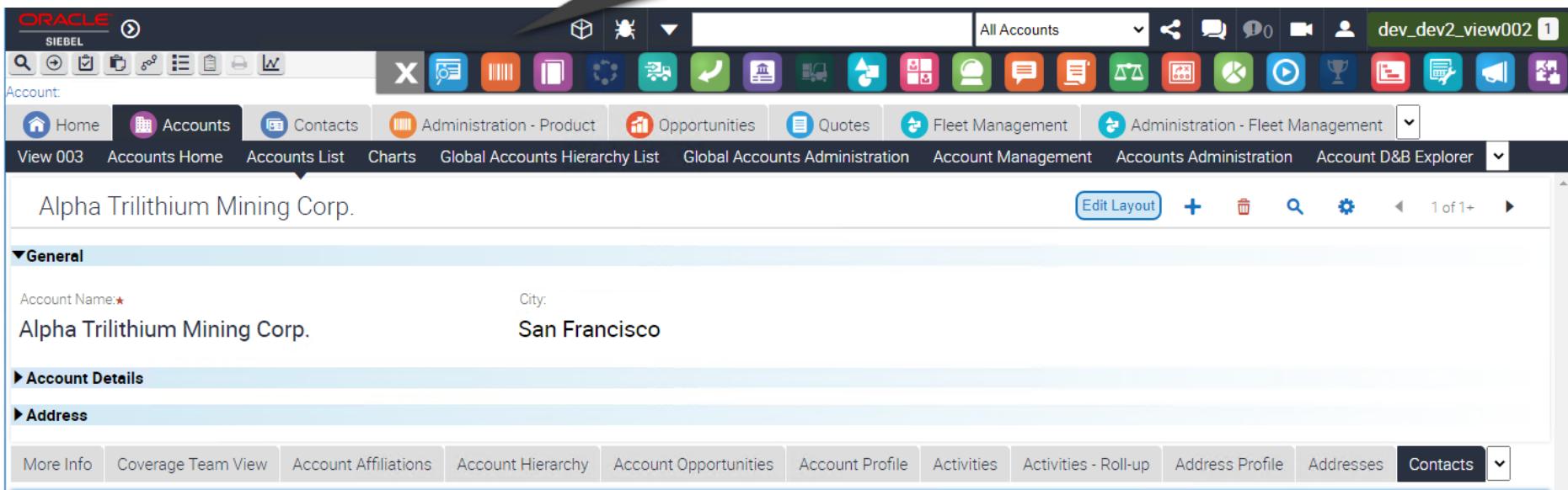


NEW IN 21.4: FAST INSPECT OPTIONS

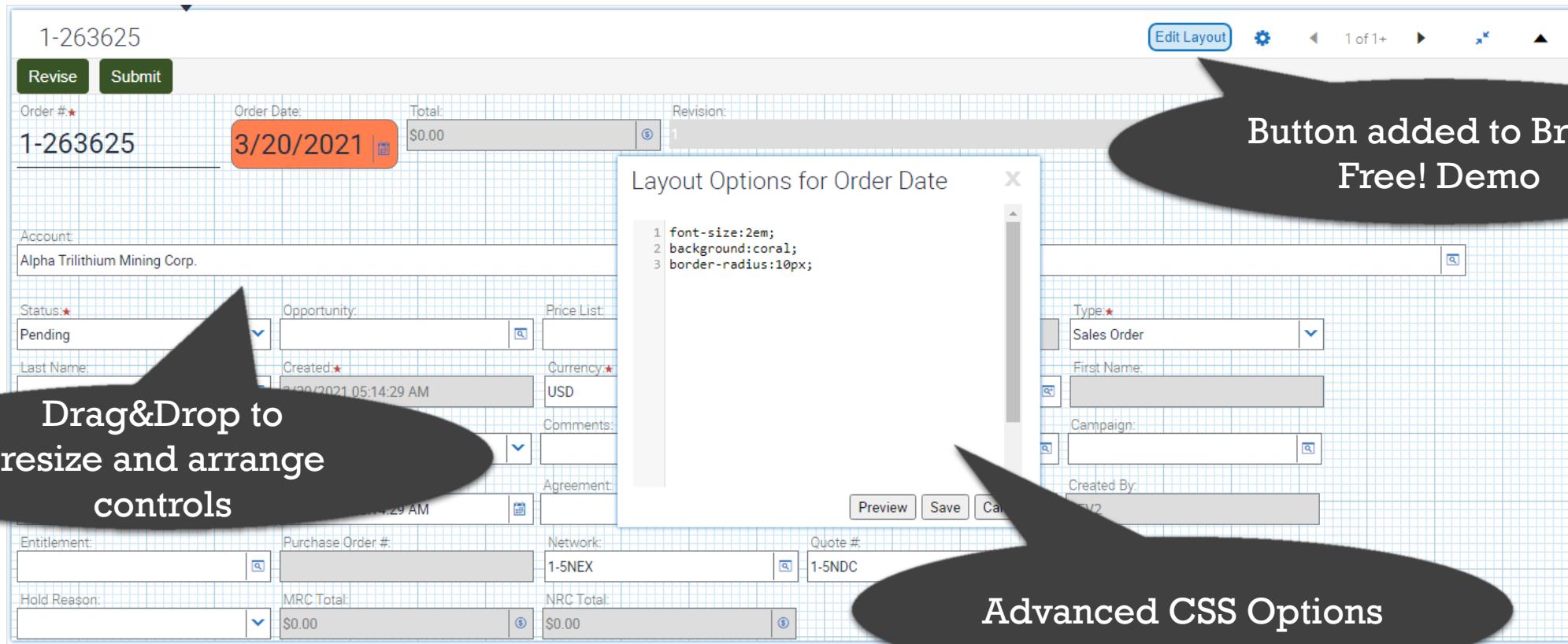


NEW IN 21.4: MENU PERSISTENCE

Menu state (toolbar or detached) and position retained.



NEW IN 21.4: EDIT LAYOUT DEMO



WEB TOOLS WHODUNNIT

The screenshot shows the Oracle Siebel Web Tools interface. The top navigation bar includes the Oracle SIEBEL logo, Tools, Debug, and Help menus. On the left, a sidebar lists various Siebel object types: Applet, Application, Business Component, Business Object, Business Service (which is selected and highlighted in blue), Command, Integration Object, Link, Manifest Administration, Menu, Message Category, Pick List, Project, Screen, Symbolic String, Table, Task, Toolbar, Type, View, Web Page, Web Template, and Workflow Policy Column. The main content area is titled "Business Services" and displays a table with columns: W, Name (sorted by Name), Changed, Project, Cache, and Class. Two rows are visible: "BCRM RR Reader" and "BCRM Server Manager Service". A tooltip is displayed over the "BCRM RR Reader" row, stating "SADMIN is editing in dev_sadmin_rrr333/1". A large callout bubble points from this tooltip to the text "Shows who is currently editing an object and in what workspace/version".

W	Name	Changed	Project	Cache	Class
S S S	BCRM RR Reader	<input checked="" type="checkbox"/>	00Phoenix		CSSService
S	BCRM Server Manager Service	<input checked="" type="checkbox"/>	00Phoenix		CSSEXEDDLSVC

Shows who is currently editing an object and in what workspace/version



MODIFIED OBJECTS VIEW

Click on Object Name to retrieve metadata.

Modified Objects

Object Type	Object Name	Operation	User Name	Created	Updated	WS Name	WS Version	WS Status	Comments
Integration Object	Base BCRM Server Component	Insert	SADMIN	3/3/2021 03:01...	3/3/2021 03:01:13 AM	dev_sadmin_srvrio01	1	Delivered	asdfd
Business Object	BCRM Server Component	Update	SADMIN	3/3/2021 02:58...	3/3/2021 02:58:31 AM	dev_sadmin_srvrio01	1	Delivered	asdfd
Business Object	BCRM Server Admin	Insert	SADMIN	3/3/2021 02:57...	3/3/2021 02:57:57 AM	dev_sadmin_srvrio01	1	Delivered	asdfd
Application	Siebel Universal Agent	Update	SADMIN	2/26/2021 06:1...	2/26/2021 06:15:43 AM	MAIN	15	Checkpointed	test
Business Service	BCRM Server Info	Insert	SADMIN	2/26/2021 06:1...	2/26/2021 06:15:43 AM	MAIN	15	Checkpointed	test
Business Service	BCRM Server Info	Insert	SADMIN	2/26/2021 05:5...	2/26/2021 06:12:22 AM	dev_sadmin_svrmgr01	1	Delivered	test
Application	Siebel Universal Agent	Update	SADMIN	2/26/2021 06:1...	2/26/2021 06:11:30 AM	dev_sadmin_svrmgr01	1	Delivered	test
Business Service	BCRM RR Reader	Update	SADMIN	2/25/2021 01:5...	2/25/2021 01:57:09 AM	dev_sadmin_fixrr...	1	Edit In Progress	Enter Comments
Business Service	BCRM RR Reader	Update	SADMIN	2/25/2021 01:2...	2/25/2021 01:20:09 AM	dev_sadmin_fixrr...	1	Delivered	test
Business Service	BCRM RR Reader	Update	SADMIN	2/25/2021 01:1...	2/25/2021 01:12:53 AM	dev_sadmin_fixrr...	1	Delivered	test

Merged Objects

Object Path	Object Name	Object Type	Attribute Difference Flag	Parent Object Name	Parent Object Type
Business Service Server Script 'TranslateAttr' of Business Service 'BCRM RR ...	TranslateAttr	Business Service Server Script	<input checked="" type="checkbox"/>	BCRM RR Read...	Business Serv...

Merge Attributes

Property Name	Old Std Value	Old Cust Value	New Std Value	Conflict Flag	Override Flag	Resolution	Conflict	Parent Id	Priority	Updated
Script	function TranslateAttr(Inputs, ps...	function Transl...	function Transl...							

Object Metadata

```
1 {
2   "Cache": "N",
3   "Class": "CSSService",
4   "Project Locked Language": "ENU",
5   "Project UI Freeze": "N",
6   "External Use": "Y",
7   "Object Language Locked": "",
8   "Name": "BCRM RR Reader",
9   "Application Code": "STD",
10  "Project Id": "1-1-3R8EO",
11  "Service Application Use": "",
12  "Repository Name": "Siebel Repository",
13  "Web Service Enabled": "N",
14  "Server Enabled": "N",
15  "Object Locked By Name": "",
16  "Project Name": "00Phoenix",
17  "Repository Id": "1-1-1",
18  "Module": "",
19  "Owner Class": ""}
```

METADATA COMPARISON / DIFF

Business Service:BCRM RR Reader [dev_sadmin_fixrrr/1]

```
293     "Service Application Use": "",  
294     "Script": "function GetTypeRRFieldMap(Inputs, Outputs) {\n    try{\n        var psIn =  
TheApplication().NewPropertySet();\n        var psOut = TheApplication().NewPropertySet();\n        psIn SetProperty(\"Object Type\", \"Type\");\n        psIn SetProperty(\"Object Name\", Inputs.GetProperty(\"Object  
Type\"));\n        psOut = GetRawRRData(psIn);\n        var psDef, sAttr, arrAttr, ts;\n        var arTypeRR = [];\n        var arTypeNoCompRR = [];\n        var arTypeFilteredRR = [];\n        var cc = psOut.GetChildCount();\n        if (cc > 0) {\n            for (var i = 0; i < cc; i++) {\n                psDef = psOut.GetChild(i);\n                sAttr =  
psDef.GetProperty(\"ATTRS\");\n                arrAttr = CleanAttributes(sAttr);\n                for (var j = 0; j < arrAttr.length; j++) {\n                    ts = arrAttr[j];\n                    //Field name array\n                    arTypeRR.push(ts);\n                }\n                //array of \"No Compile\" flags\n                if (j == 3) {\n                    if (j == 4) {\n                        arTypeNoCompRR.push(ts);\n                    }\n                }\n            }\n            //apply filter to get only compiled fields\n            for (var k = 0; k < arTypeNoCompRR.length; k++) {\n                if (arTypeNoCompRR[k] == \"N\") {\n                    arTypeFilteredRR.push(arTypeRR[k]);\n                }\n            }\n        }\n        Outputs SetProperty(\n            arTypeFilteredRR.join(\"|\"));\n    } catch(e){\n        TheApplication().RaiseErrorText(\n            \"GetTypeRRFieldMap: \" + e.toString());\n    }\n}
```

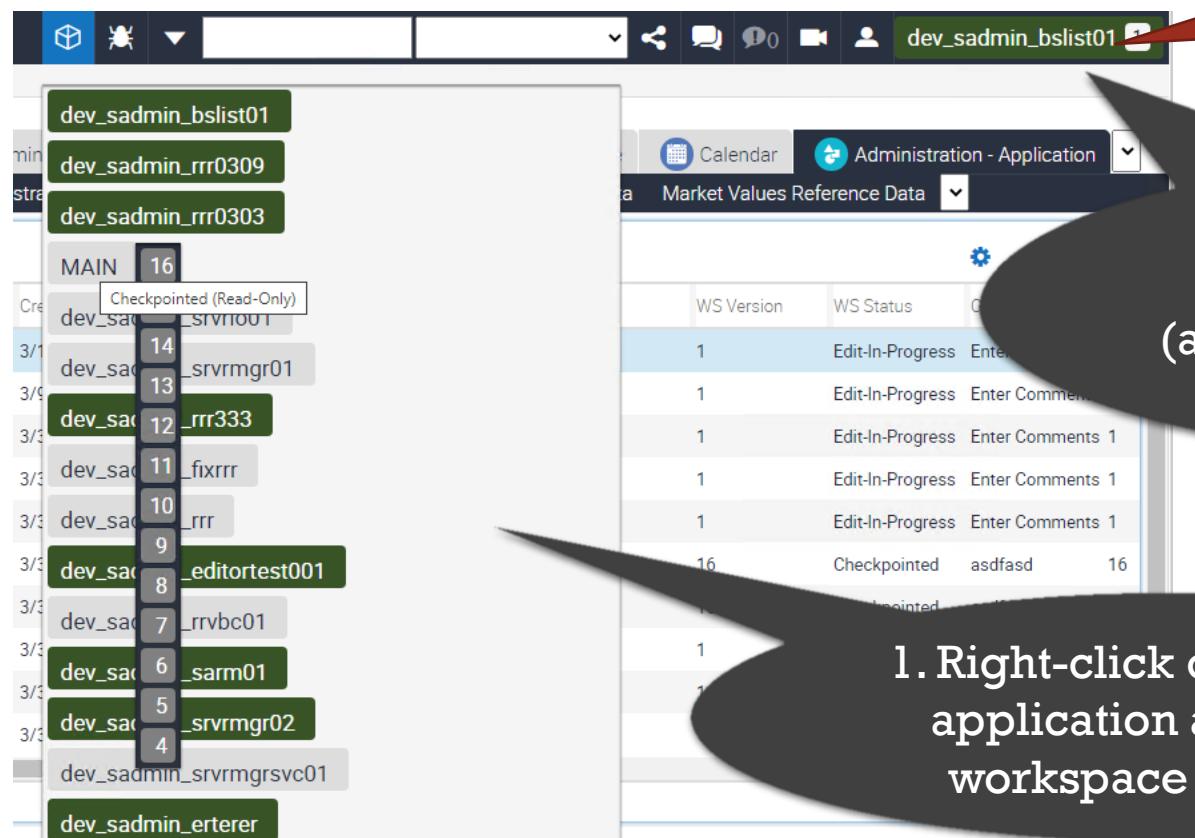
Shown in bottom of view
after clicking second
object of same type

Needs a bit more work but
already supports script diff

Business Service:BCRM RR Reader [dev_sadmin_rrr0309/1]

```
var arTypeNoCompRR = [];\nvar arTypeFilteredRR = [];\n//kudos to Henrik T.\nvar arTypeNoExtRR = [];\n\nvar cc = psOut.GetChildCount();\nif (cc > 0) {\n    for (var i = 0; i < cc; i++) {\n        psDef = psOut.GetChild(i);\n        sAttr = psDef.GetProperty(\"ATTRS\");\n        arrAttr =  
CleanAttributes(sAttr);\n        for (var j = 0; j < arrAttr.length; j++) {\n            if (j == 3) {\n                if (j == 4) {\n                    arTypeNoCompRR.push(ts);\n                }\n            }\n        }\n        //array of \"No Compile\" flags\n        if (j == 7) {\n            if (arTypeNoExtRR[k] == \"N\") {\n                arTypeFilteredRR.push(arTypeRR[k]);\n            }\n        }\n    }\n}\n//apply filter to get only compiled fields\nfor (var k = 0; k < arTypeNoCompRR.length; k++) {\n    if (arTypeNoCompRR[k] == \"N\") {\n        arTypeFilteredRR.push(arTypeRR[k]);\n    }\n}\n//apply filter to get only compiled fields and no extension fields\nfor (var k = 0; k < arTypeNoCompRR.length; k++) {\n    if (arTypeNoCompRR[k] == \"N\" & arTypeNoExtRR[k] == \"N\") {\n        arTypeFilteredRR.push(arTypeRR[k]);\n    }\n}\nOutputs SetProperty(\"RRFieldMap\", arTypeFilteredRR.join(\"|\"));\ncatch(e){\n    TheApplication().RaiseErrorText(\"Error in GetTypeRRFieldMap: \" + e.toString());\n}
```

WORKSPACE FAST INSPECT

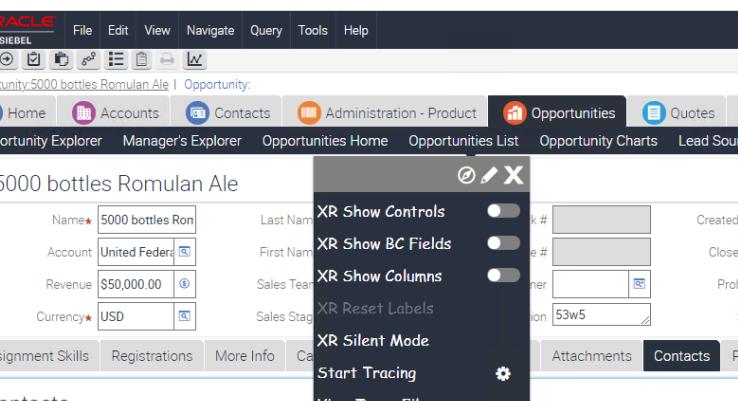
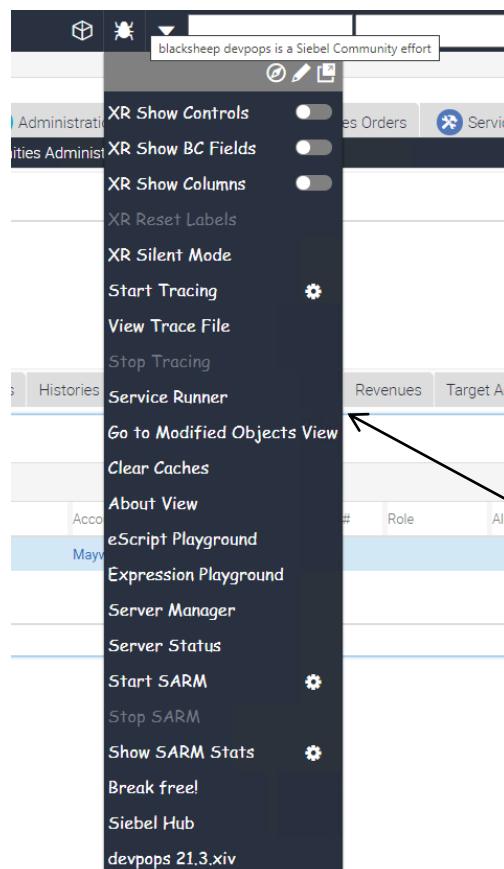


Double-click on banner to
re-open/re-inspect current
Workspace

2. Workspace opened and
inspected instantly
(and displayed in toolbar as it
should be)

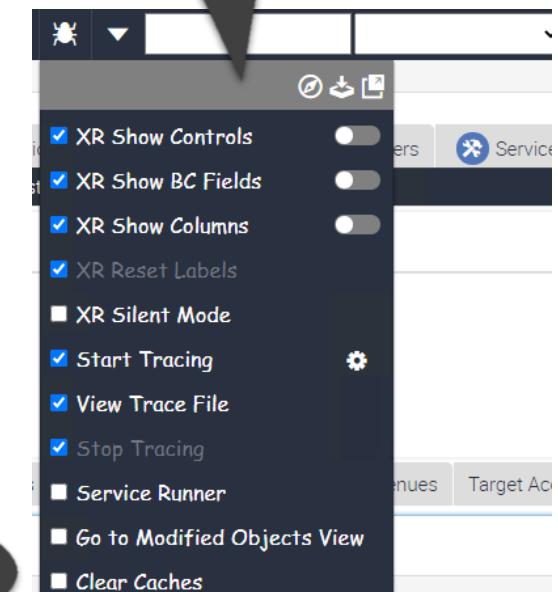
1. Right-click cube icon in
application and select
workspace / version

APPLICATION MENU

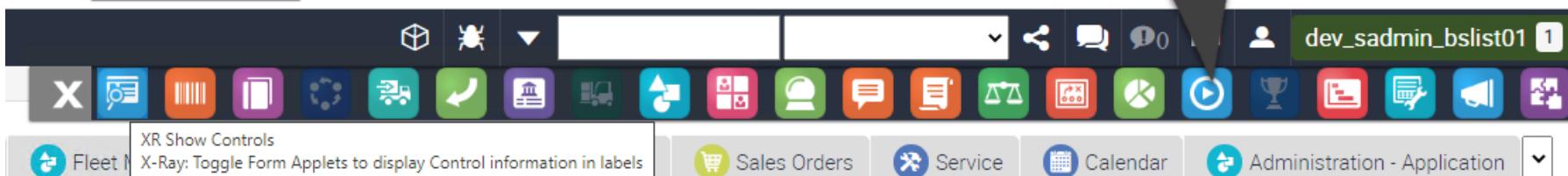


- New “Debug” menu in application
- Classic Style
 - Floating Undocked
 - Floating Toolbar

Right-click to show options



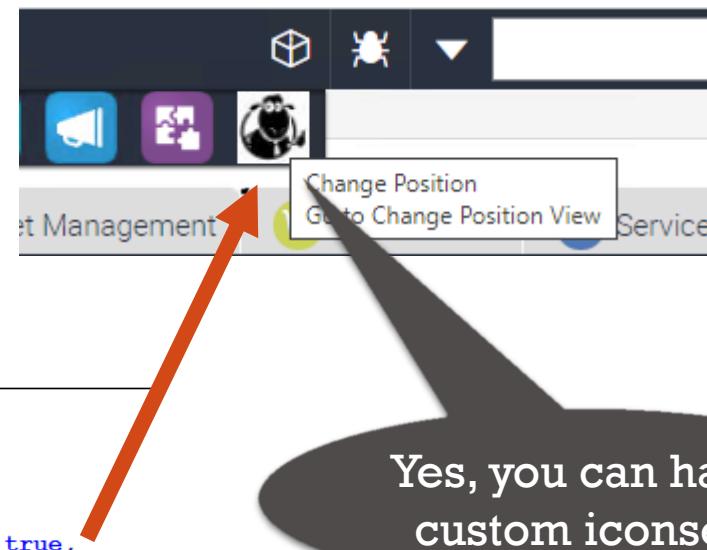
Yup, it's
customizable



CUSTOMIZABLE MENU

- Override menu in BCRMCustomizeDebugMenu function

```
145 //blacksheep devops
146 //EDUCATIONAL SAMPLE!!! DO NOT USE IN PRODUCTION!!!
147
148 BCRMCustomizeDebugMenu = function () {
149     //put your menu customizations here
150     //visit the BCRMCreateDebugMenu method to see pre-defined menu items
151     //Example:
152     /*
153
154         //new item (copy one from BCRMCreateDebugMenu function and modify)
155
156         BCRM_MENU["GotoView2"] = {
157             "seq": 101,
158             "enable": localStorage.getItem("BCRM_MENU_ENABLE_GotoView2") == "false" ? false : true,
159             "label": "Change Position",
160             "title": "Go to Change Position View",
161             "onclick": function () {
162                 var r = BCRMCloseDebugMenu();
163                 SiebelApp.S_App.GotoView("Change Position View");
164                 return r;
165             },
166             "img": "https://avatars.githubusercontent.com/u/31369901?s=32&v=4"
167         };
168     }
169 }
170
171
172
173
174
175
176
177
178 };
```

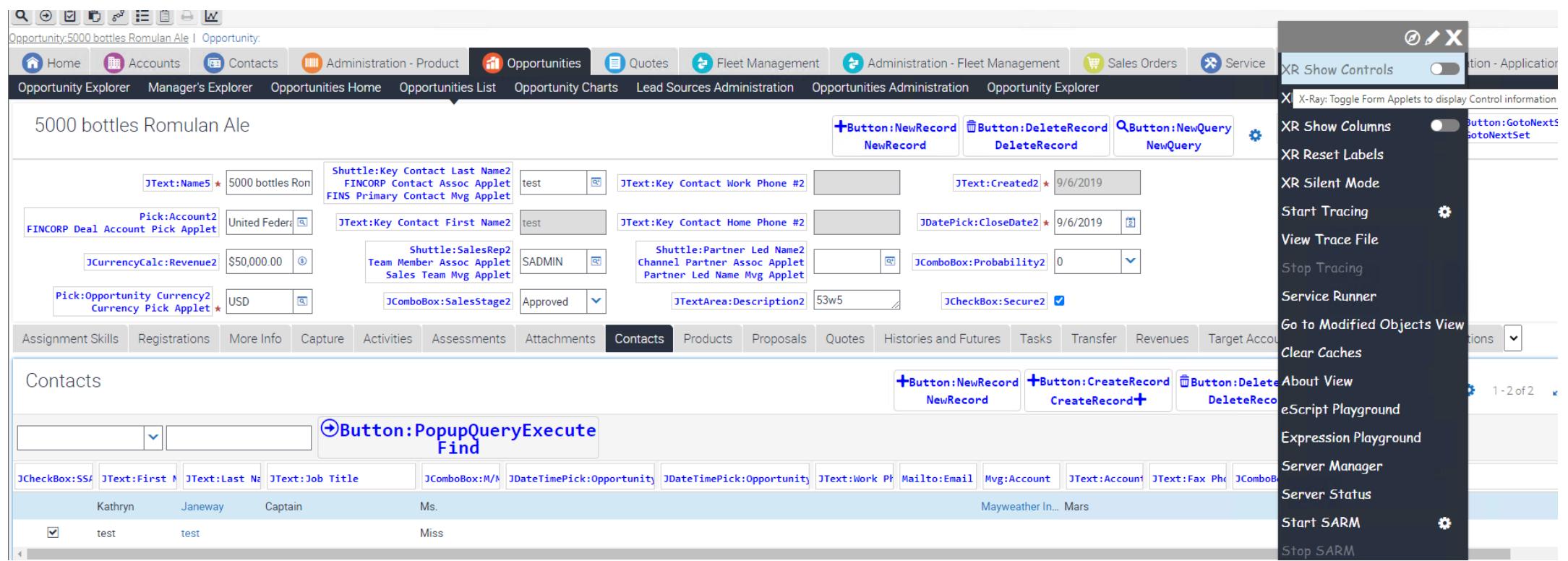


Yes, you can have
custom icons



X-RAY SHOW CONTROLS

- Toggle label to show Control UI Type and Name
- Resolves Multi-Value Fields and shows MVG/Assoc applet names (cool, ain't it?)



X-RAY SHOW BC FIELDS

- Shows BC Field, Type, Length, Required/Calc flags
- Shows BC and Link information for each applet

The screenshot shows the Oracle Siebel interface with the X-Ray feature enabled. A red box highlights a contact record for "5000 bottles Romulan Ale". A tooltip for the "Name" field (text/100) displays its details: Name (text/100)* 5000 bottles Ron. Another tooltip for the "Key Contact Last Name" field shows: Key Contact Last Name (text/50) test. A third tooltip for the "Primary Revenue Amount" field shows: Primary Revenue Amount (currency/25) \$50,000.00. A fourth tooltip for the "Currency Code" field shows: Currency Code (text/20)* USD. A fifth tooltip for the "Sales Stage" field shows: Sales Stage (text/50) Approved. A sixth tooltip for the "Description" field shows: Description (text/255) 53w5. A seventh tooltip for the "Secure Flag" checkbox shows: Secure Flag (bool/1) checked.

A red box also highlights the "Contacts" tab in the navigation bar. A tooltip for the "Contact" section in the contacts list shows: Business Component: Contact, Link: Opportunity/Contact, Type: M:M(S_OPTY_CON), Parent BC: Opportunity.

A floating toolbar on the right side contains several buttons:

- XR Show Controls (toggle switch)
- XR Show BC Fields (toggle switch)
- XR Show Col (X-Ray: Toggle Form and List Applets to display BC Field information in labels)
- XR Reset Labels
- XR Silent Mode
- Start Tracing (button with gear icon)
- View Trace File (button)
- Stop Tracing (button)

X-RAY SHOW TABLES/COLUMNS

- Shows Table.Column for each control
- Shows calculation expression in case of calculated field

The screenshot shows the Siebel X-Ray interface, which displays the physical layer information for various fields in a form. A context menu is open over a contact record, specifically for the 'Contacts' tab.

Form Fields (Visible):

- S_OPTY_NAME ★ 5000 bottles Ron
- MVF: S_CONTACT_LAST_NAME test
- MVF: S_CONTACT_WORK_PH_NUM
- System: Created (utcdatetime/32)* ★ 9/6/2019
- S_ORG_EXT_NAME United Federal
- MVF: S_CONTACT_FST_NAME test
- MVF: S_CONTACT_HOME_PH_NUM
- S_OPTY_SUM_EFFECTIVE_DT ★ 9/6/2019
- S_OPTY_SUM_REVN_AMT \$50,000.00
- MVF: S_USER_LOGIN SADMIN
- MVF: S_ORG_EXT_NAME
- S_OPTY_SUM_WIN_PROB 0
- S_OPTY_CURCY_CD ★ USD
- S_STG_NAME Approved
- S_OPTY_DESC_TEXT 53w5
- S_OPTY_SECURE_FLG ✓

Context Menu Options:

- XR Show Controls
- XR Show BC Fields
- XR Show Columns
- XR Re: X-Ray: Toggle Form and List Applets to display physical layer information
- XR Silent Mode
 - Start Tracing
 - View Trace File
 - Stop Tracing
 - Service Runner
- Go to Modified Objects View

Navigation Bar:

- File Edit View Navigate Query Tools Help
- Home Accounts Contacts Administration - Product Opportunities Quotes Fleet Management Administration - Fleet Management Sales Orders Service Calendar Administration - Application

Bottom Status Bar:

- Kathryn Janeway Captain Ms. Mayweather In... Mars
- Mayweather In... Mars

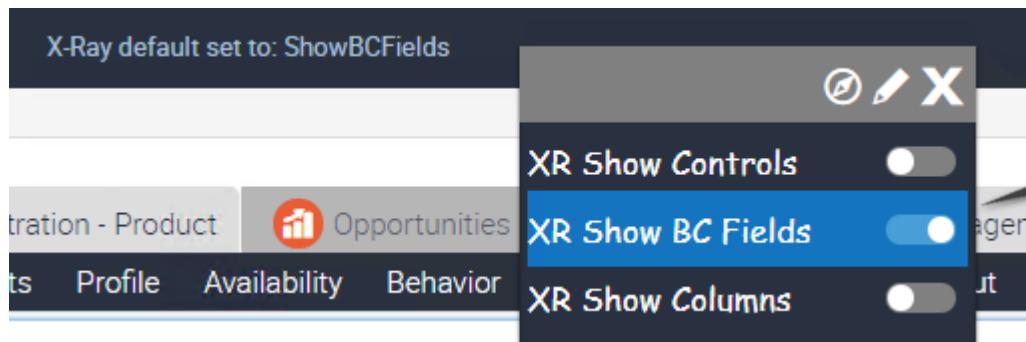
X-RAY SILENT MODE / TOOLTIP

- Data is aggregated in label tooltip
- Run Silent Mode to collect without changing UI

Last Name	test		Work #		Created Date*	9/6/2019
First Name	DisplayName: Last Name _ShowBCFields: Key Contact Last Name (text/50) _ShowTableColumns: MVF: S_CONTACT.LAST_NAME _ShowControls: Shuttle:Key Contact Last Name2 FINCORP Contact Assoc Applet FINS Primary Contact Mvg Applet					
Sales Team						
Sales Stage	Approved		Description	53w5	Secure	<input checked="" type="checkbox"/>



X-RAY ALWAYS ON



Flip switch to “on”

After navigation, all applets
will be x-rayed automatically

The screenshot displays a form titled "5000 bottles Romulan Ale". The form contains several input fields with red validation messages:

- Name (text/100)*: 5000 bottles Ron
- Account (text/100): United Federal
- Primary Revenue Amount (currency/25): \$50,000.00
- Currency Code (text/20)*: USD
- Key Contact Last Name (text/50): test
- Key Contact First Name (text/50): test
- Sales Rep (text/50): SADMIN
- Sales Stage (text/50): Approved
- Description (text/255): update

Below the form is a navigation bar with tabs: Assignment Skills, Registrations, More Info, Capture, Activities, Assessments, Attachments, Contacts, Products, Proposals, Quotes, Help. The "Contacts" tab is currently selected. Under the "Contacts" section, there is a table with one row:

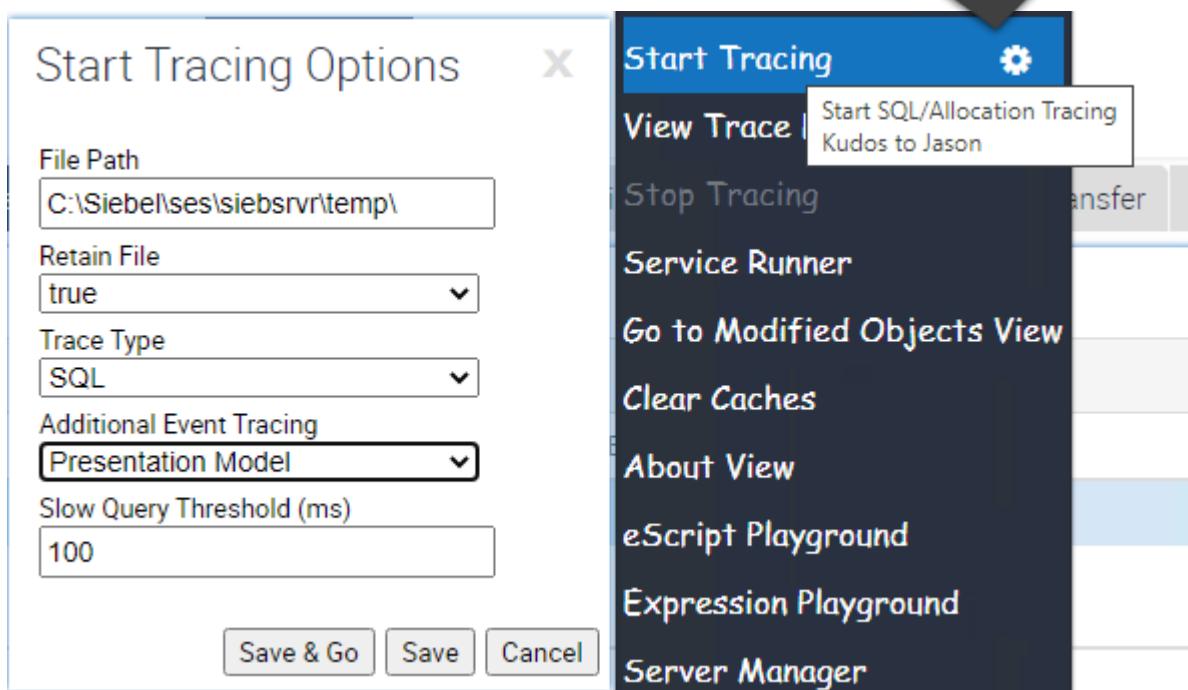
SSA Primary F	First Name (t	Last Name (te	Job Title (text/75)	M/M (text/15)	Opportunity Start Date (c	Opportunity End Date (dat	Work Phone #
	Kathryn	Janeway	Captain		Ms.		

At the bottom of the table, there are status indicators: a checked checkbox, the word "test", another checked checkbox, and the word "Miss".



SQL TRACING

Click spur icon for options



MESSAGE BAR: STOP'N'VIEW

Fastest option to stop tracing
and open viewer

The screenshot shows the Oracle Siebel interface. At the top, there's a message bar with the text "Tracing in progress Stop'n'View". Below the message bar is a toolbar with various icons. The main window is titled "Trace File Viewer" and displays a SQL trace file with numbered lines of code. The code is as follows:

```
1 03/14/21,14:16:02,START,21.1.0.0 [23073] LANG_INDEPENDENT,SADMIN,7508,4228
2 03/14/21,14:16:21,COMMENT,PMTRACE:Opportunity List View::Opportunity List Applet::OnFocus
3 03/14/21,14:16:21,COMMENT,PMTRACE:Opportunity List View::Opportunity List Applet::Drilldown
4 03/14/21,14:16:21,SQLSTMT,SELECT,"SELECT /*+ ALL_ROWS */
   T1.CONFLICT_ID,
   T1.LAST_UPD,
   T1.CREATED,
   T1.LAST_UPD_BY,
   T1.CREATED_BY,
   T1.MODIFICATION_NUM,
   T1.ROW_ID,
   T1.VERSION_NUM
  FROM
    SIEBEL.S_AUDIT_VERSION T1"
03/14/21,14:16:21,SQLTIME,2,1
03/14/21,14:16:21,SQLSTMT,SELECT,"SELECT
   T1.CONFLICT_ID,
   T1.DB_LAST_UPD_SRC,
   T1.DB_LAST_UPD,
   T1.LAST_UPD,
   T1.CREATED,
   T1.LAST_UPD_BY,
   T1.CREATED_BY,
   T1.MODIFICATION_NUM,
   T1.ROW_ID,
   T1.ATTRIB_TYPE,
   T1.ATTRIB_VALUE,
   T1.LOCALE_CODE,
   T1.OBJECT_NAME,
```

Below the viewer, there are buttons for "Show Chart", "Show Stats", "Show Slowest", "Show RR Queries", "Close", and "Copy". On the left side of the screen, there are two panels: "Accounts" and "Contacts". The "Accounts" panel shows a record for "United Federation of Planets" with fields for Account Name, Address, City, and Zip Code. The "Contacts" panel shows a list with one entry: "Beverly Crusher".

TRACE FILE VIEWER

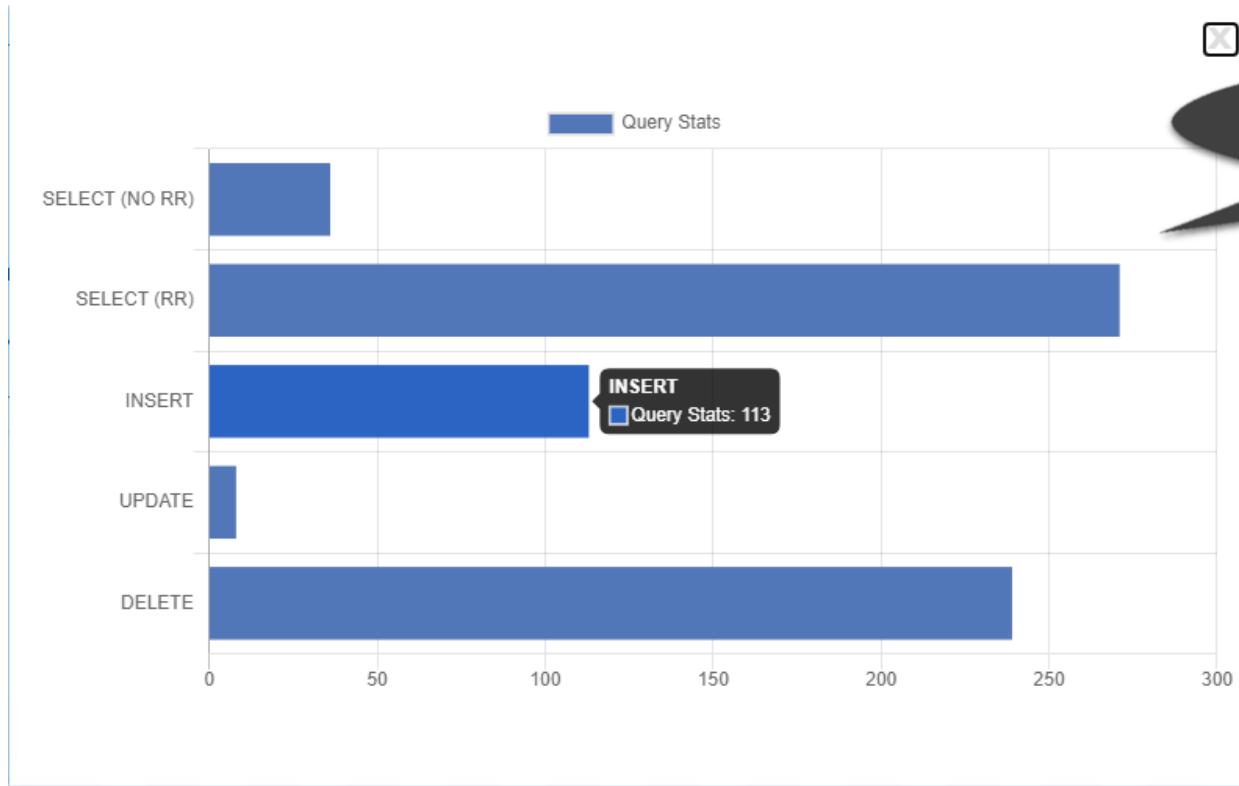
Trace File Viewer

```
1 03/14/21,14:09:25,START,21.1.0.0 [23073] LANG_INDEPENDENT,SADMIN,7508,4228
2 03/14/21,14:09:38,COMMENT,PMTRACE:Opportunity Detail - Contacts View::Opportunity Form Applet - Child::WriteRecord
3 03/14/21,14:09:38,SQLSTM,1,SELECT,"SELECT
4     T1.CONFLICT_ID,
5     T1.LAST_UPD,
6     T1.CREATED,
7     T1.LAST_UPD_BY,
8     T1.CREATED_BY,
9     T1.MODIFICATION_NUM,
10    T1.ROW_ID,
11    T1.COMPILED_OBJ_DEFN,
12    T1.VERSION_NUM
13   FROM
14     SIEBEL.S_RR_BUSCOMP T1
15   WHERE
16     (T1.NAME = :1 AND T1.LANG_CD IN (:2,:3) AND T1.REPOSITORY_ID = :4 AND T1.WS_ID = :5 AND T1.VERSION_NUM <= :6)
17   ORDER BY
18     T1.VERSION_NUM DESC"
19 03/14/21,14:09:38,SQLBIND,1,1,Dynamic Hierarchy Direct Relationship
20 03/14/21,14:09:38,SQLBIND,1,2,ENU
21 03/14/21,14:09:38,SQLBIND,1,3,ALL
22 03/14/21,14:09:38,SQLBIND,1,4,1-1-1
23 03/14/21,14:09:38,SQLBIND,1,5,1@1
24 03/14/21,14:09:38,SQLBIND,1,6,16
25 03/14/21,14:09:38,SQLTIME,1,1
26 03/14/21,14:09:38,SQLSTM,2,SELECT,"SELECT
27     T1.CONFLICT_ID,
28     T1.LAST_UPD,
29     T1.CREATED,
```

Lot's of options here...

Show Chart Show Stats Show Slowest Hide RR Queries Close Copy

TRACE STATS CHART



Simple Demo of statement
count by type.



TRACE STATS

```
1 SQL TRACE STATS
2 Trace started : 3/14/2021, 2:09:38 PM
3 Trace stopped : 3/14/2021, 2:10:10 PM
4 Total Statements : 667
5 Time Measurements: 326
6 Total DB Time(ms): 1015
7 Worst SELECT (ms): 217
8 Worst INSERT (ms): 0
9 Worst UPDATE (ms): 0
10 Worst DELETE (ms): 296
11
12
13 DETAILED QUERY COUNTS
14 SELECT (NO RR):36 #####
15 SELECT (RR) :271 #####
16 INSERT :113 #####
17 UPDATE :8 #####
18 DELETE :239 #####
19
20
21 TOP 10 TABLE USAGE: SELECT
22 S_USER : 40 #####
23 S_PROJECT : 34 #####
24 S_LST_OF_VAL : 12 #####
25 S_POSTN : 10 #####
26 S_OPTY : 9 #####
27 S_PARTY : 9 #####
28 S_ORG_EXT : 7 #####
29 S_CONTACT : 6 #####
30 S_LST_OF_VAL_BU : 6 #####
31 S_SM_STATE : 6 #####
32
33
34 TOP 10 TABLE USAGE: INSERT
35 S_DOCK_TXN_LOG : 55 #####
36 S_DOCK_TXN_SET : 45 #####
37 S_AUDIT_ITEM : 6 #####
38 S_OPTY : 1 ###
39 S_OPTY_DSGN_REG : 1 ###
40 S_REVN : 1 ###
41 S_OPTY_TNIX : 1 ###
42 S_OPTY_POSTN : 1 ###
43 S_OPTY_BU : 1 ###
44 S_OPTY_UTX : 1 ###
45
46
47 TOP 10 TABLE USAGE: UPDATE
48 S_OPTY : 2 #####
49 S_SSA_ID : 1 ###
50 S_OPTY_POSTN : 1 ###
51 S_OPTY_BU : 1 ###
52 S_DOC_QUOTE : 1 ###
53 S_EVT_ACT : 1 ###
54 S_DOC_AGREE : 1 ###
55
56
57 TOP 10 TABLE USAGE: DELETE
58 S_OPTY_PROD_FNK : 24 #####
59 S_OPTY_PROD1_FNK : 24 #####
60 S_REVN_X : 24 #####
```

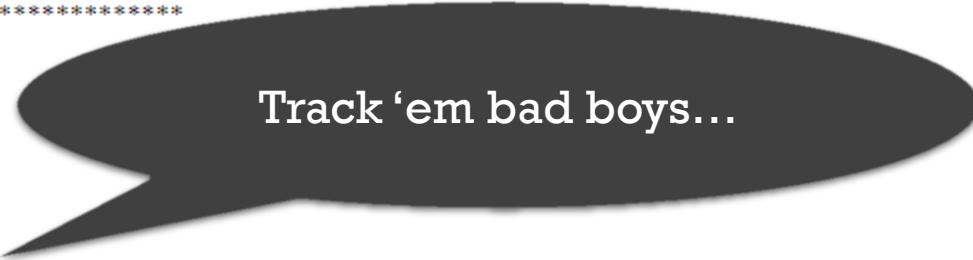
Retro Aggregation
What does that even mean?



SLOW SQL

Trace File Viewer

```
1 MILLISECONDS:296 ****
2 "DELETE FROM SIEBEL.S_SALES_ACT
3 WHERE PAR_ROW_ID IN (SELECT ROW_ID FROM SIEBEL.S_EVT_ACT
4 WHERE OPTY_ID = :1)
5 "
6 03/14/21,14:10:09,SQLBIND,409,1,1-70NX
7 03/14/21,14:10:10,SQLTIME,409,296
8 03/14/21,14:10:10,
9
10 MILLISECONDS:217 ****
11 "SELECT
12     T27.CONFLICT_ID,
13     T27.LAST_UPD,
14     T27.CREATED,
15     T27.LAST_UPD_BY,
16     T27.CREATED_BY,
```



Track 'em bad boys...



HIDE / SHOW RR QUERIES

Trace File Viewer

```
1 03/14/21,14:09:25,START,21.1.0.0 [23073] LANG_INDEPENDENT,SADMIN,7508,4228
2 03/14/21,14:09:38,COMMENT,PMTRACE:Opportunity Detail - Contacts View::Opportunity Form Applet - Child::WriteRecord
3 03/14/21,14:09:38,SQLSTMT,INSERT/UPDATE,
4 UPDATE SIEBEL.S_OPTY SET
5   DB_LAST_UPD_SRC = :1,
6   DB_LAST_UPD = current_date,
7   LAST_UPD = :2,
8   LAST_UPD_BY = :3,
9   MODIFICATION_NUM = :4,
10  DESC_TEXT = :5
11 WHERE
12   ROW_ID = :6 AND MODIFICATION_NUM = :7
13 "
14 03/14/21,14:09:38,SQLBIND,3,1,User
15 03/14/21,14:09:38,SQLBIND,3,2,03/14/2021 14:09:38
16 03/14/21,14:09:38,SQLBIND,3,3,0-1
17 03/14/21,14:09:38,SQLBIND,3,4,6
18 03/14/21,14:09:38,SQLBIND,3,5,updated
19 03/14/21,14:09:38,SQLBIND,3,6,1-N7L
20 03/14/21,14:09:38,SQLBIND,3,7,5
21 03/14/21,14:09:38,SQLTIME,3,5
22 03/14/21,14:09:38,SQLSTMT,SELECT,"SELECT
23   T1.CONFLICT_ID,
24   T1.DB_LAST_UPD_SRC,
25   T1.DB_LAST_UPD,
26   T1.LAST_UPD,
27   T1.CREATED,
28   T1.LAST_UPD_BY,
29   T1.CREATED_BY,
30   T1.MODIFICATION_NUM,
31   T1.ROW_ID,
32   T1.CORPORATE_PREFIX,
33 <
```

Show full trace or exclude RR queries.



COPY TO CLIPBOARD

```
217 03/14/21,14:09:43,,COMMENT,VIEWTRACE:Opportunity Attachment View::postload
218 03/14/21,14:09:46,COMMENT,PMTRACE:Opportunity Attachment View::Opportunity Attachment Applet::Drilldown
219 03/14/21,14:09:54,SQLSTMT,SELECT,"SELECT /*+ ALL_ROWS */
220   T1.CONFLICT_ID,
221   T1.LAST_UPD,
222   T1.CREATED,
223   T1.LAST_UPD_BY,
224   T1.CREATED_BY,
225   T1.MODIFICATION_NUM,
226   T1.ROW_ID,
227   T1.VERSION_NUM
228 FROM
229   SIEBEL.S_AUDIT_VERSION T1"
230 03/14/21,14:09:54,SQLTIME,73,1
231 03/14/21,14:09:54,SQLSTMT,SELECT,"SELECT
232   T27.CONFLICT_ID,
233   T27.LAST_UPD,
234   T27.CREATED,
235   T27.LAST_UPD_BY,
236   T27.CREATED_BY,
237   T27.MODIFICATION_NUM,
```



Keep it for later



BUSINESS SERVICE RUNNER

Business Service Runner (meep meep)

Load Preset: Please select...

Business Service (Type to search): EAI S

- EAI SAP BAPI Adapter
- EAI SAP BAPI Adapter (tRFC)
- EAI SAP BAPI Receiver (tRFC)
- EAI SAP BAPI Workflow Service
- EAI SAP IDOC Adapter
- EAI SAP IDOC Workflow Processor
- EAI SAP IDOC Workflow Processor-[EAI SAP IDOC Workflow Processor - DDTE]
- EAI SAP IDOC Workflow Service
- EAI SAP Process Transaction
- EAI SAP Send Transaction
- FALSMO Transport

Business Service Runner (meep meep)

Load Preset: Please select...

Business Service (Type to search): EAI Siebel Adapter

Method:

- Delete
- Execute
- Insert
- Query
- QueryPage
- Synchronize
- Update
- Upsert

1. Select Service

Business Service Runner (meep meep)

Load Preset: Please select...

Business Service (Type to search): EAI Siebel Adapter

Method: QueryPage

ViewMode: Property:String

StartRowNum: Property:Number

SortSpec: Property:String

SearchSpec: Property:String

PageSize*: Property:Number

OutputIntObjectName: Property:String

NewQuery: Property:String

BusObjCacheSize: Property:Number

2. Select Method

3. Set Input Props

BUSINESS SERVICE RUNNER

Business Service Runner (meep meep)

Load Preset:

Business Service (Type to search): EAI Siebel Adapter

Method:

ViewMode:

StartRowNum:

SortSpec:

SearchSpec:

PageSize.*:

OutputIntObjectName:

NewQuery:

BusObjCacheSize:

CMU Query Account Io
Account IO
Account Interface
Account Integration Object_SIA
LS Clinical Protocol Site_Clinical Acc
ISS Account Instance
CMU Update Account Io
CMU AccSync Account Io

No more guessing

Business Service Runner (meep meep)

Load Preset:

Business Service (Type to search): EAI Siebel Adapter

Method:

ViewMode:

StartRowNum:

SortSpec:

SearchSpec:

PageSize.*:

OutputIntObjectName:

NewQuery:

BusObjCacheSize:

Add Custom Property

Time elapsed (ms): 521
40:50 GM:139 | PropertySet
 ErrorContextIntComp =
 OMErrorCode =
 ErrorContextSearchSpec =
 LastPage = false
 OMErrorSymbol =
 ErrorSymbol =
 ErrorCode = 0x0
 NumOutputObjects = 10
 SiebelMessage
 MessageId = 1-2C14
 IntObjectName = Internal Account Interface
 MessageType = Integration Object
 IntObjectFormat = Siebel Hierarchical
 ListOfInternal Account Interface
 Account

Run

Output for nerds and other people



SAVE/LOAD/MANAGE PRESETS

As simple as Save As..

Load Preset:

Business Service (Type to search):
EAI File Transport_Send_Fil_C:\1865
EAI XML Converter_IntObjHierToXMLDoc_Sie_@0*8472
EAI Siebel Adapter_QueryPage_Pag_105398
Eliza_Analyze_Inp_mee_4338
EAI File Transport_Send_Fil_C:\2615
EAI File Transport_Send_Fil_C:\9639
EAI Siebel Adapter_QueryPage_Vie_All_1217

Method:

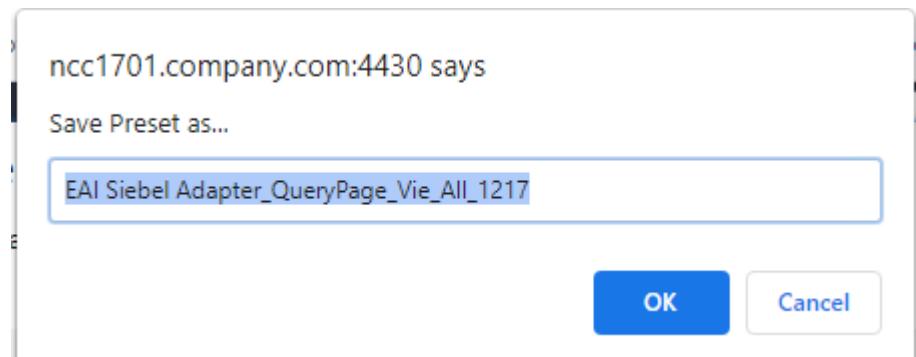
NewQuery:

OutputIntObjectName:

PageSize:

StartRowNum:

ViewMode:



Delete current preset

Business Service Runner (meep meep)

Load Preset: **Delete**

Business Service (Type to search): **Delete current preset**



WORKFLOW RUNNER (20.7 OR HIGHER)

Business Service Runner (meep meep)

Load Preset:

Business Service (Type to search): Workflow Process Manager

Method:

ProcessName: new

RowId:

XMLHierarchy:

- Account - New Order
- Account - New Quote

XML Message:

- Property:Binary
- Property:String

UserName:

- Property:String

TargetSubsystem:

- Property:String

TargetServerPath:

- Property:String

Sequence:

- Property:String

SchemaMatched:

- Property:String

SRFMatched:

- Property:String

Response Hierarchy:

- Property:Hierarchy

Response:

- Property:Binary

Password:

- Property:String

IsFileExport:

- Property:String

IntObjSet:

- Property:Hierarchy

Asynchronous:

- Property:String

AsyncDataPrep:

- Property:String

Choose “Run Workflow” preset
(Or select WFProcMgr/RunProcess)

Run

Workflow
Process List

WF Properties
automatically
loaded



USE LAST OUTPUT

Business Service Runner (meep meep)

Load Preset: Please select... Delete

Business Service (Type to search): EAI XML Write to File

Method: WriteEAIMsg

XMLHeaderText: Property:String

XMLCharEncoding: Property:String

UseSiebelMessageEnvelope: Property:String

Tags on Separate Lines: Property:String

SiebelMessage:* @0*4*1*13*SiebelMessage3*0*9*MessageId6*1*

Namespace: Property:String

IgnoreCharSetConvErrors: Property:String

GenerateSchemaTypes: Property:String

GenerateProcessingInstructions: Property:String

GenerateNamespaceDecl: Property:String

FileName:* C:\Siebel\ses\siebsrvr\TEMP\

EscapeNames: Property:String

Add Custom Property

Time elapsed (ms):204
43:01 GM:827 |
PropertySet

New Use Last Output Save As Copy PropSet Export eScript Close

Run

Yep, that's a
property set alright

Auto-map output of
previous run to
input of new run



CUSTOM PROPERTIES

ConnectionSubsystem:	Property:String
CharSetConversion:	Property:String
<Value>:	Value:String

Add Custom Property

Click the button to
add a new
property item

Method: SendReceive

Property Name	Property:String ▾
HDR.CustomHeader:	custom
IsReceivingTextData:	Property:String
IgnoreCharSetConvErrors:	Property:String

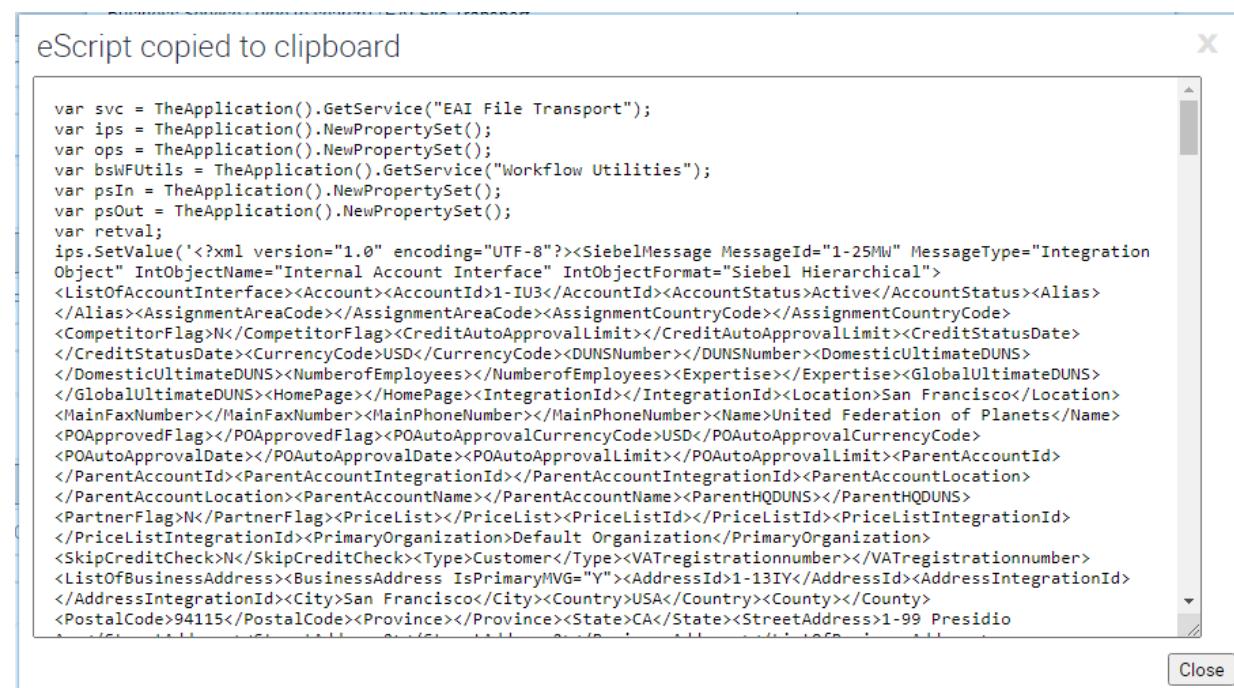
Enter property
name, value and
type



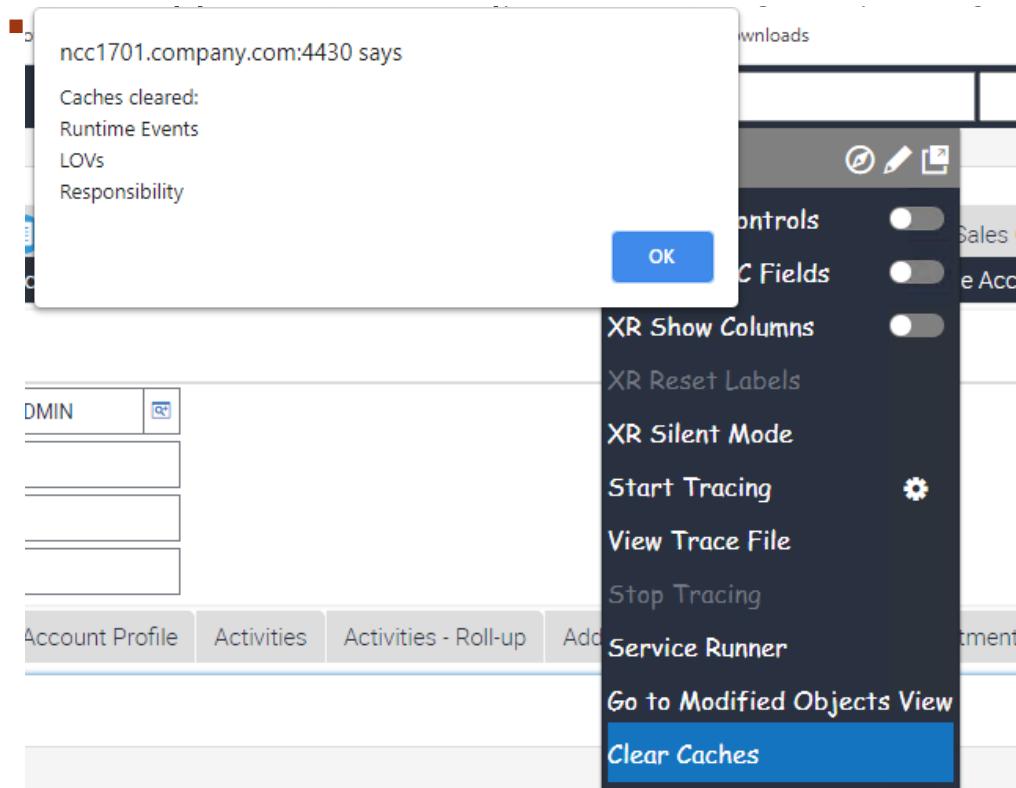
COPY ESCRIPT / PS TO CLIPBOARD

- Export eScript (copied to clipboard automatically)
- Copy Output PropSet String

[Copy PropSet](#) [Export eScript](#)



CLEAR CACHES

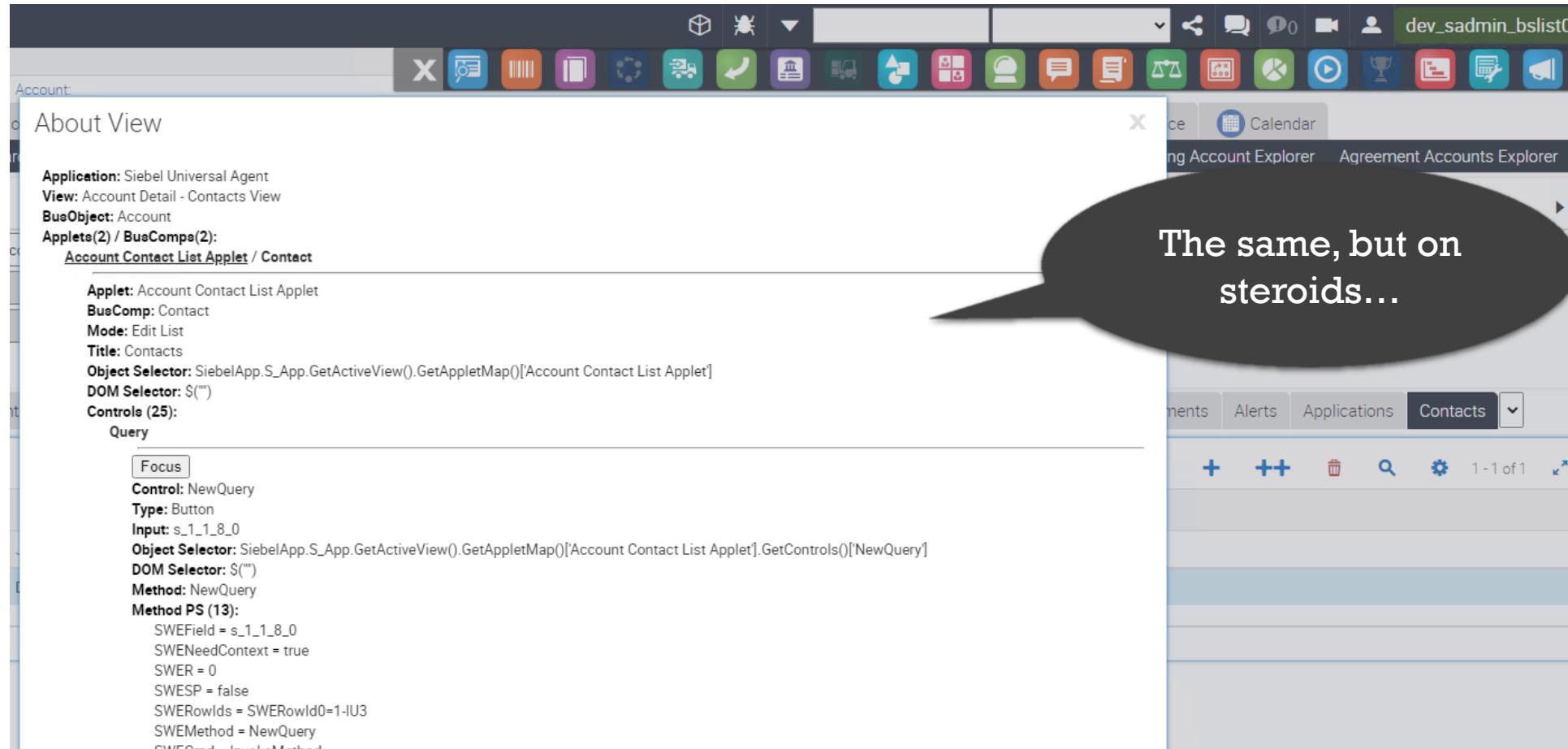


No need to
remember where
that menu is.

More: <http://xapuk.com/index.php?topic=101>



ABOUT VIEW



The same, but on steroids...

More: <http://xapuk.com/index.php?topic=80>

eSCRIPT PLAYGROUND

eScript

```
test
1 var bo = TheApplication().GetBusObject("SRF Interface");
2 var bc = bo.GetBusComp("SRF Integration Object");
3 bc.ClearToQuery();
4 bc.ActivateField("Name");
5 bc.ExecuteQuery(ForwardOnly);
6 if (bc.FirstRecord()){
7 do{
8 log(bc.GetValue("Name"));
9 } while (!bc.NextRecord());
10
Missing semicolon.
```

We should have
called it eFiddle ;-)

Last executed at 2021-03-14 14:28:47.705

```
28:47 GM:724 | 7.7 Asset Integration Object
28:47 GM:724 | 7.7 Order Entry Integration Object
28:47 GM:724 | 7.7 Quote Integration Object
28:47 GM:725 | 7.7 Service Agreement Integration Object
28:47 GM:725 | ABO Bulk Request
28:47 GM:725 | ABO Bulk Request Action Set
28:47 GM:725 | ABO Bulk Request All Agreement
28:47 GM:725 | ABO Bulk Request All Asset
28:47 GM:725 | ABO Bulk Request All Contact
28:47 GM:725 | ABO Bulk Request All Instances
28:47 GM:726 | ABO Bulk Request EC
28:47 GM:726 | ABO Bulk Request Escalate List
```

Run (Ctrl+Enter) Save (Ctrl + S) Remove Close (Esc)

More: <http://xapuk.com/index.php?topic=91>



EXPRESSION PLAYGROUND

Runtime calculations

Business Component:

Contact

Expression:

```
GetProfileAttrAsList("User Responsibilities")
```



The gift that keeps
on giving

Results:

```
Siebel Administrator,PH Call Activity Analytics Admin,PH US Executive Analytics User,PH EMEA Executive Analytics User,PH Executive Analytics Admin,PH Service Analytics User,PH Mobile Analytics Admin,Investigative Agent Analytics,Health Professional Analytics,PH Objective Analytics Admin,PH Objective Analytics User,PH Mobile Manager Analytics Admin,PH Mobile Manager Analytics User,FINS BIB Responsibility,Dispatcher,Customer Service Representative,Customer Service Manager,Call Center Administrator,Channel Operations Manager,Web Sales Representative,Pricing Administrator,Engagement Manager,Resource Manager,Product Administrator,Web Anonymous
```

Format/Linarise Run (Ctrl+Enter) Close (Esc)

More: <http://xapuk.com/index.php?topic=93>



SERVER MANAGER

ncc1701.company.com:4430 says

Enter a valid svrmgr command.
Separate commands with \n.

`list comps`

OK Cancel

Enter command(s)

See output in browser

Submit moar commands

Server Manager Output

```
1 *
2 svrmgr> list servers
3 list servers
4
5 SBLSRVR_NAME SBLSRVR_GROUP_NAME HOST_NAME INSTALL_DIR SBLMGR_PID SV_DISP_STATE SBLSRVR_STATE START_TIME END_TIME SBLSRVR_STATUS
6 -----
7 server01 ncc1701 c:\Siebel\ses\ siebsrvr 5992 Running Running 2021-03-14 11:52:03 21.1.0.0 [2307]
8 server02 ncc1701 c:\Siebel\ses\ siebsrvr 5528 Running Running 2021-03-14 11:52:01 21.1.0.0 [2307]
9
10 2 rows returned.
11
12 svrmgr> list comps
13 list comps
14
15 SV_NAME CC_ALIAS CC_NAME CT_ALIAS CG_ALIAS CC_RUNMODE CP_DISP_RUN_STATE CP_STARTMODE CP_NUM_RUN_
16 -----
17 server02 SCCObjMgr_enu Call Center Object Manager (ENU) AppObjMgr CallCenter Interactive Running Auto 1
18 server02 FSMSrvr File System Manager FMSrvr SystemAux Batch Online Auto 0
19 server02 SServiceObjMgr_enu Self Service Object Manager (ENU) AppObjMgr CallCenter Interactive Online Auto 0
20 server02 ServerMgr Server Manager ServerMgr System Interactive Running Auto 1
21 server02 SRBroker Server Request Broker ReqBroker System Interactive Running Auto 13
22 server02 SRProc Server Request Processor SRProc SystemAux Interactive Running Auto 2
23 server02 SrvTblCleanup Server Tables Cleanup BusSvcMgr SystemAux Background Running Auto 1
24 server02 SrvTaskPersist Server Task Persistance BusSvcMgr SystemAux Background Running Auto 1
25 server02 AdminNotify Siebel Administrator Notification Component AdminNotify SystemAux Batch Online Auto 0
26 server02 SCBroker Siebel Connection Broker SCBroker System Background Running Auto 1
27 server02 eServiceObjMgr_enu eService Object Manager (ENU) AppObjMgr CallCenter Interactive Online Auto 0
28 server01 BusIntBatchMgr Business Integration Batch Manager BusSvcMgr EAI Batch Shutdown Manual 0
29 server01 BusIntMgr Business Integration Manager BusSvcMgr EAI Batch Shutdown Manual 0
30 server01 SCCObjMgr_enu Call Center Object Manager (ENU) AppObjMgr CallCenter Interactive Online Auto 0
31 server01 CustomAppObjMgr_enu Custom Application Object Manager (ENU) CustomAppObjMgr EAI Interactive Shutdown Manual 0
32 server01 EAIObjMgr_enu EAI Object Manager (ENU) EAIObjMgr EAI Interactive Online Auto 0
33 4
```

list servers
list comps

Submit Close

SERVER STATUS

Provide Credentials for Server Management X

SADMIN	
SADMIN
DEV1
TSMYTHE
DEV2

Manage password Go Cancel

Credentials please,
we're RESTing

Formatted output

Server Component Status

server01: Running

eService Object Manager (ENU): Shutdown (0 of 20 tasks)
XMLP Report Server: Online (0 of 20 tasks)
Siebel Web Tools Object Manager (ENU): Running (1 of 20 tasks)
Siebel Mobile Connector Object Manager (ENU): Shutdown (0 of 20 tasks)
Siebel Connection Broker: Running (1 of 1 tasks)
Siebel Administrator Notification Component: Online (0 of 10 tasks)
Server Task Persistence: Running (1 of 1 tasks)
Server Tables Cleanup: Running (1 of 1 tasks)
Server Request Processor: Running (2 of 20 tasks)
Server Request Broker: Running (15 of 100 tasks)
Server Manager: Running (1 of 20 tasks)
Self Service Object Manager (ENU): Shutdown (0 of 20 tasks)
Sales Object Manager (ENU): Online (0 of 20 tasks)
SMQ Receiver: Shutdown (0 of 20 tasks)
MSMQ Receiver: Shutdown (0 of 20 tasks)
MQSeries Server Receiver: Shutdown (0 of 20 tasks)
MQSeries AMI Receiver: Shutdown (0 of 20 tasks)
JMS Receiver: Shutdown (0 of 20 tasks)
File System Manager: Online (0 of 20 tasks)
Enterprise Integration Mgr: Shutdown (0 of 5 tasks)
EAI Outbound Server: Shutdown (0 of 20 tasks)
EAI Object Manager (ENU): Online (0 of 20 tasks)
Custom Application Object Manager (ENU): Shutdown (0 of 20 tasks)
Call Center Object Manager (ENU): Online (0 of 20 tasks)
Business Integration Manager: Shutdown (0 of 20 tasks)
Business Integration Batch Manager: Shutdown (0 of 20 tasks)

server02: Running

eService Object Manager (ENU): Online (0 of 20 tasks)
Siebel Connection Broker: Running (1 of 1 tasks)
Siebel Administrator Notification Component: Online (0 of 10 tasks)
Server Task Persistence: Running (1 of 1 tasks)
Server Tables Cleanup: Running (1 of 1 tasks)
Server Request Processor: Running (2 of 20 tasks)
Server Request Broker: Running (13 of 100 tasks)
Server Manager: Running (1 of 20 tasks)
Self Service Object Manager (ENU): Online (0 of 20 tasks)
File System Manager: Online (0 of 20 tasks)
Call Center Object Manager (ENU): Running (1 of 20 tasks)



SARM LOGGING

The screenshot shows the Siebel SARM Logging interface. On the left, a modal dialog titled "Start SARM Options" is open, displaying configuration settings:

- File Path: C:\Siebel\ses\siebsrvr\temp
- Component Alias: sccobjmgr_enu
- Siebel Server: server01
- Duration (min 60 seconds): 300

Buttons at the bottom of the dialog include "Save & Go", "Save", and "Cancel". A large callout bubble labeled "Set options" points to this dialog.

To the right of the dialog is a log viewer window titled "SARM Manager Output". It displays a series of command-line entries from the server's command prompt:

```
1 .
2 srvmgr> set server server01
3 set server server01
4
5 srvmgr:server01> change param sarmlogdirectory=undefined for comp sccobjmgr_enu
6 change param sarmlogdirectory=undefined for comp sccobjmgr_enu
7 Command completed successfully.
8
9 srvmgr:server01> change param sarmperiod=1 for comp sccobjmgr_enu
10 change param sarmperiod=1 for comp sccobjmgr_enu
11 Command completed successfully.
12
13 srvmgr:server01> change param sarmusers=SADMIN for comp sccobjmgr_enu
14 change param sarmusers=SADMIN for comp sccobjmgr_enu
15 Command completed successfully.
16
17 srvmgr:server01> change param sarmlevel=2 for comp sccobjmgr_enu
18 change param sarmlevel=2 for comp sccobjmgr_enu
19 Command completed successfully.
20
21 srvmgr:server01> list param sarm% for comp sccobjmgr_enu
22 list param sarm% for comp sccobjmgr_enu
23
24 PA_ALIAS PA_VALUE PA_DATATYPE PA_SCOPE PA_SUBSYSTEM
25 -----
26 SARMLevel 2 Integer Subsystem (SARM) Response Measurement Comp level Component level set N N N
27
28 1 row returned.
29
```

A large callout bubble labeled "SARM enabled for current user only" points to the log output area.

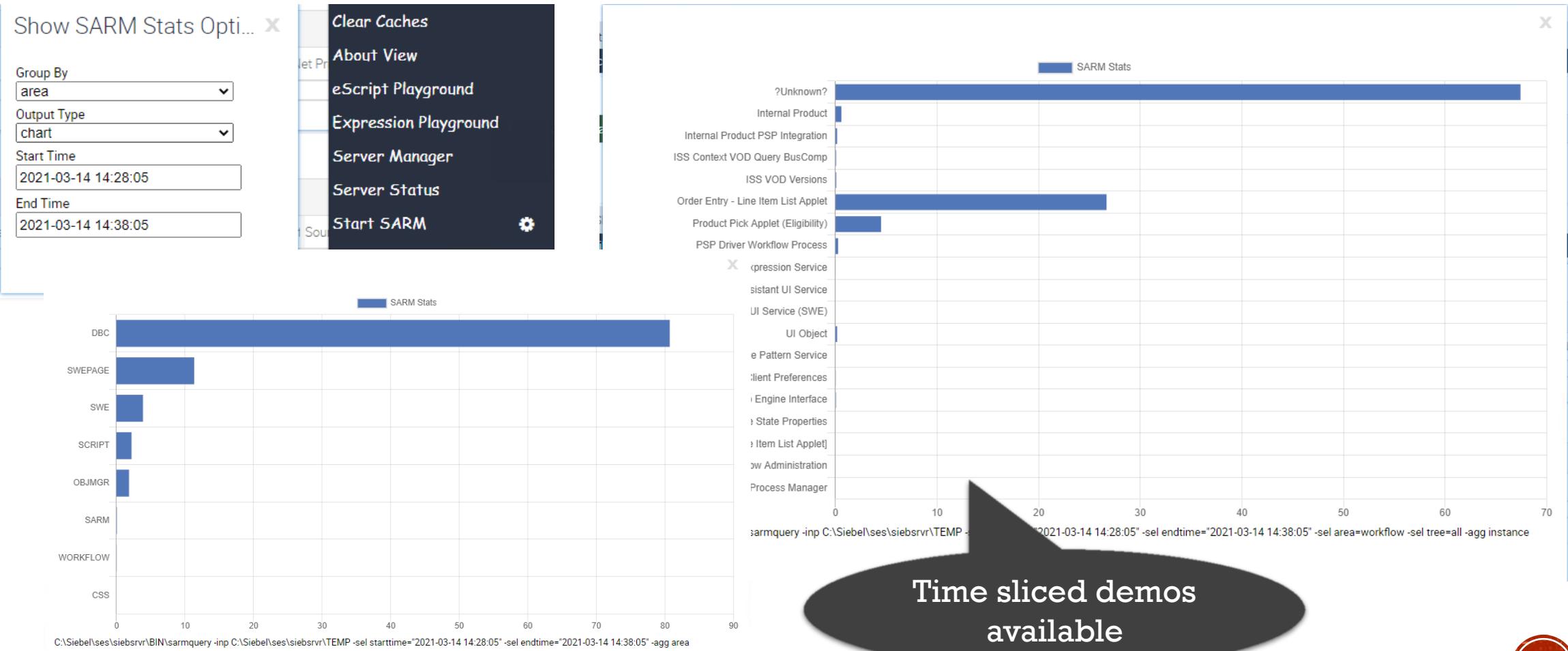
STOP SARM

Server Manager Output

```
1 .
2 srvmgr> delete parameter override for server server01 component sccobjmgr_enu param sarmperiod
3 delete parameter override for server server01 component sccobjmgr_enu param sarmperiod
4 Command completed successfully.
5
6 srvmgr> delete parameter override for server server01 component sccobjmgr_enu param sarmlogdirectory
7 delete parameter override for server server01 component sccobjmgr_enu param sarmlogdirectory
8 Command completed successfully.
9
10 srvmgr> delete parameter override for server server01 component sccobjmgr_enu param sarmusers
11 delete parameter override for server server01 component sccobjmgr_enu param sarmusers
12 Command completed successfully.
13
14 srvmgr> delete parameter override for server server01 component sccobjmgr_enu param sarmlevel
15 delete parameter override for server server01 component sccobjmgr_enu param sarmlevel
16 Command completed successfully.
17
18 srvmgr> list param sarm% for comp sccobjmgr_enu
19 list param sarm% for comp sccobjmgr_enu
20
21 PA_ALIAS    PA_VALUE   PA_DATATYPE  PA_SCOPE      PA_SUBSYSTEM          PA_SETLEVEL    PA_DISP_SETLEVEL  PA_EFF_NEXT_TASK  PA_EFF_CMP_RSTRT  PA_EFF_SRVR_RS
22 -----
23 SARMLevel    0          Integer       Subsystem    (SARM) Response Measurement  Default value  Default value    N            N            N
24 SARMLevel    0          Integer       Subsystem    (SARM) Response Measurement  Default value  Default value    N            N            N
25
26 2 rows returned.
27
28 srvmgr> list advanced param sarm% for comp sccobjmgr_enu
29 list advanced param sarm% for comp sccobjmgr_enu
```

Delete Param
Override

SHOW SARM STATS



BREAK FREE DEMO

From this hot mess...

Product		Product Type		Organization	
Product★	Package	Product Type	Package	Organization	Default Orga
Description		Status		Product Line	
Payment Type		Part #	SEBLRSVLP1	Unit of Measure	
Product Level		Qty		Equivalent Prod	
Format		Pageset		Thumbnail Image File Na	
Parent Product		Effective Start		Thumbnail Sou	
Network Element Type		Effective End		Image File Na	
Part Number Method		Compound Product	<input type="checkbox"/>	Image Sou	
Marketing		Service		Logistics	
Targeted Industry		MTRF		Primary Ven	
Targeted M				Vendor	

...to this beauty with one click

► General

► Marketing Info

▼ Logistics

Primary Vendor	Vendor Site	Vendor Part #
Item Size	Lead Time	Ship Carrier
Ship Method	Allocate Below Safety	Auto Substitute
Auto Allocate	Auto Explode	

► Other

► Service



GET IT ON GITHUB

- <https://github.com/blacksheep-crm/devops>

The screenshot shows the GitHub repository page for the 'devops' repository under the 'blacksheep-crm' organization. The repository has 1 branch and 0 tags. The main branch is 'main'. The repository has 82 commits. The most recent commit is 'blacksheep-crm Update README.md' by '4a80c12' 3 days ago. The repository has 5 forks and 6 stars. The repository description is: 'Combining utilities from blacksheep and the Siebel community into a unique developer toolkit.' The repository has no releases published. The repository has no packages published. The repository has no languages.

blacksheep-crm / devops

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

blacksheep-crm Update README.md 4a80c12 3 days ago 82 commits

BCRM NEO RR Data.sif Add files via upload last month

BCRM Server Manager Service.sif Add files via upload last month

BCRM Workspace Helper Data.sif Add files via upload 2 months ago

BCRM Workspace Helper UI.sif Add files via upload 2 months ago

FWK Runtime.xml RR Reader update 5 days ago

README.md Update README.md 3 days ago

SiebelQueryLang.js Add files via upload 2 months ago

postload.js bugfixes, menu is now toolbarizable 3 days ago

ui.multiselect.js Add files via upload 27 days ago

v Update v 3 days ago

README.md

About

Combining utilities from blacksheep and the Siebel community into a unique developer toolkit.

Readme

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Languages

JavaScript 100.0%