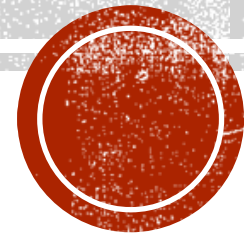


# DEVPOPS

Feature Overview

Release 21.3



# GET IT ON GITHUB

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

The screenshot shows the GitHub repository page for `blacksheep-crm/devpops`. The repository has 5 stars and 6 forks. The main branch is `main` with 1 branch and 0 tags. The repository description states: "Combining utilities from blacksheep and the Siebel community into a unique developer toolkit." The repository contains 82 commits. The file list includes:

File Name	Commit Message	Commit Time
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

The right sidebar shows the repository's About section, which includes a Readme link. The Releases section indicates that no releases have been published, and the Packages section indicates that no packages have been published. The Languages section shows that JavaScript accounts for 100.0% of the code.




# READ THIS!

devpops

---

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

---



Got it?  
Good, let's check it out



# WEB TOOLS WHODUNNIT

The screenshot shows the Oracle Siebel Web Tools interface. The left sidebar lists various Siebel Object types, with 'Business Service' selected. The main area displays a table of Business Services. The table has columns: W, Name, Changed, Project, Cache, and Class. The 'W' column contains status icons: 'S S S' for 'BCRM RR Reader', 'SADMIN is editing in dev\_sadmin\_rrr333/1' (a tooltip), and 'S' for 'BCRM Server Manager Service'. The 'Changed' column has checkboxes, and the 'Project' column shows '00Phoenix'. The 'Class' column shows 'CSSService' and 'CSSEXEDDL SVC'.

W	Name	Changed	Project	Cache	Class
S S S	BCRM RR Reader	<input checked="" type="checkbox"/>	00Phoenix		CSSService
SADMIN is editing in dev_sadmin_rrr333/1					
		<input checked="" type="checkbox"/>	00Phoenix		CSSService
S	BCRM Server Manager Service	<input checked="" type="checkbox"/>	00Phoenix		CSSEXEDDL SVC

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	asddf
Business Object	BCRM Server Component	Update	SADMIN	3/3/2021 02:58...	3/3/2021 02:58:31 AM	dev_sadmin_srvrio01	1	Delivered	asddf
Business Object	BCRM Server Admin	Insert	SADMIN	3/3/2021 02:57...	3/3/2021 02:57:57 AM	dev_sadmin_srvrio01	1	Delivered	asddf
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_srvrmgr01	1	Delivered	test
Application	Siebel Universal Agent	Update	SADMIN	2/26/2021 06:1...	2/26/2021 06:11:30 AM	dev_sadmin_srvrmgr01	1	Delivered	test
Business Service	BCRM RR Reader	Update	SADMIN	2/25/2021 01:5...	2/25/2021 01:57:09 AM	dev_sadmin_srvrmgr01	1	Delivered	test
Business Service	BCRM RR Reader	Update	SADMIN	2/25/2021 01:2...	2/25/2021 01:20:09 AM	dev_sadmin_srvrmgr01	1	Delivered	test
Business Service	BCRM RR Reader	Update	SADMIN	2/25/2021 01:1...	2/25/2021 01:12:53 AM	dev_sadmin_srvrmgr01	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 Servi...

Merge Attributes

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

Object Metadata

Business Service:BCRM RR Reader [dev\_sadmin\_fixrrr/1]

```
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  "User Class": ""
20 }
```

Combines data from various standard tables



# METADATA COMPARISON/DIFF

Business Service:BCRM RR Reader [dev\_sadmin\_fixrrr/1]



293	"Sales 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 arTypeERR = [];\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 if (j == 3) {\n arTypeERR.push(ts);\n }\n //array of \"No Compile\" flags\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(arTypeERR[k]);\n }\n }\n Outputs.SetProperty(arTypeFilteredRR.join(\"\\\", \"\");\n }\n catch(e){\n TheApplication().RaiseErrorTe GetTypeRRFieldMap: \"\" + e.toString();\n }\n}";

Needs a bit more work but  
already supports script diff

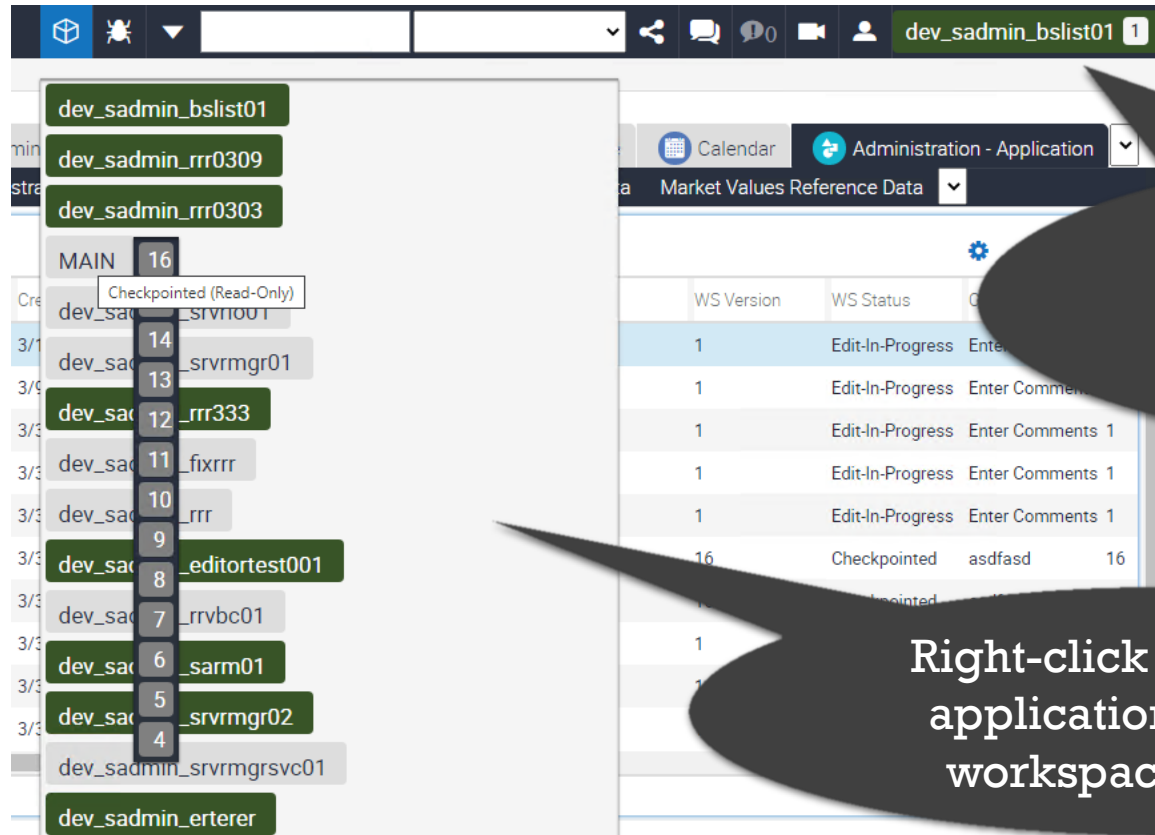
Shown in bottom of view  
after clicking second  
object of same type

Business Service:BCRM RR Reader [dev\_sadmin\_rrr0309/1]

```
//kudos to Henrik T.\nvar arTypeNoExtRR = [];\nvar cc = psOut.GetChildCount();\nfor (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        if (j == 3) {\n            arTypeRR.push(ts);\n            //array of \"No Compile\" flags\n            if (j == 4) {\n                arTypeNoCompRR.push(ts);\n                //array of\n                \"Extension\" flags\n                //kudos to Henrik T.\n                if (j == 7) {\n                    arTypeNoExtRR.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        //kudos to Henrik T.\n        //apply filter to get only compiled fields and no extension fields\n        for (var k = 0; k < arTypeNoCompRR.length; k++) {\n            if (arTypeNoCompRR[k] == \"N\") {\n                if (arTypeNoCompRR[k] == \"N\" && arTypeNoExtRR[k] == \"N\") {\n                    arTypeFilteredRR.push(arTypeRR[k]);\n                }\n            }\n        }\n        Outputs.SetProperty(\"RRFieldMap\", arTypeFilteredRR.join(\"\\n\");)\n    }\n}\n\nTheApplication().RaiseErrorText(\"Error in GetTypeRRFieldMap: \" + e.toString());\n\n[No new notification]
```



# WORKSPACE FAST INSPECT



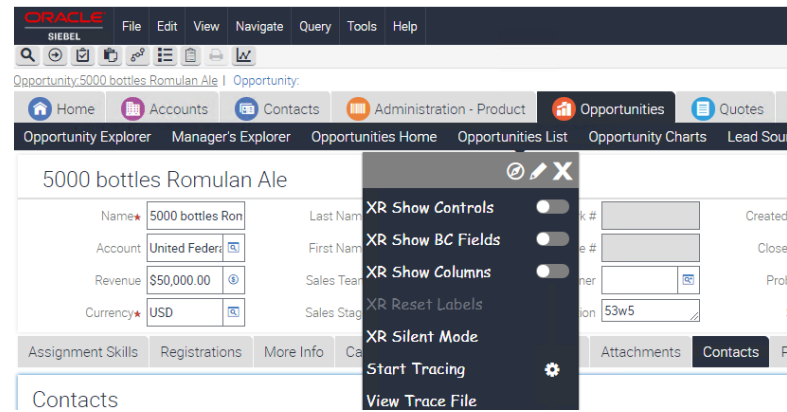
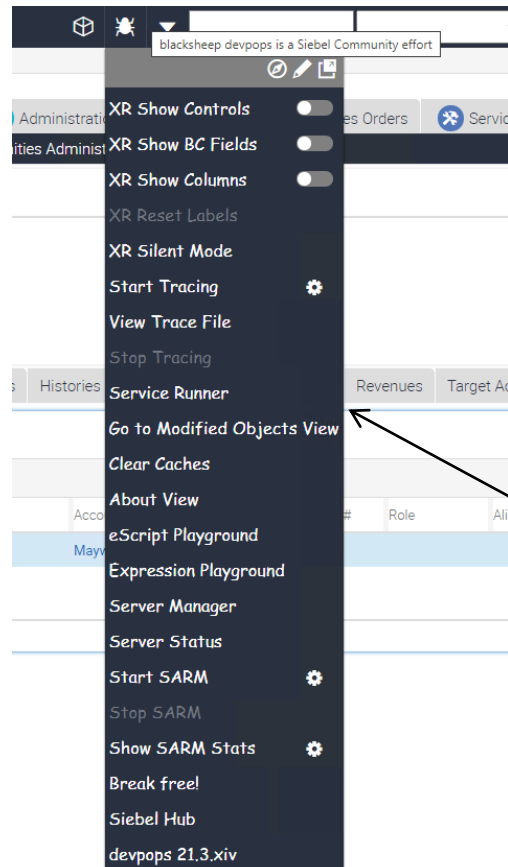
Workspace opened and inspected instantly (and displayed in toolbar as it should be)

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





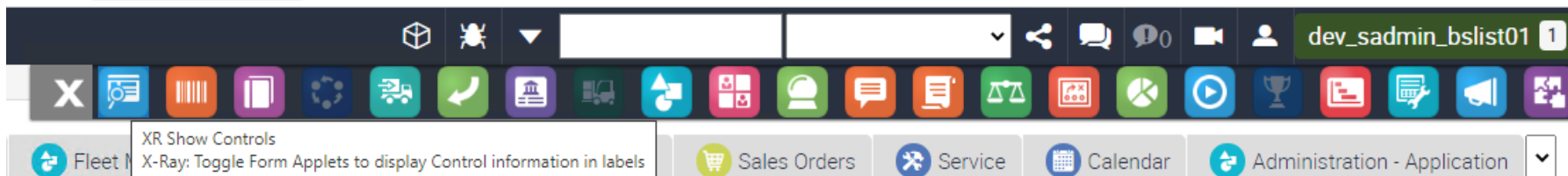
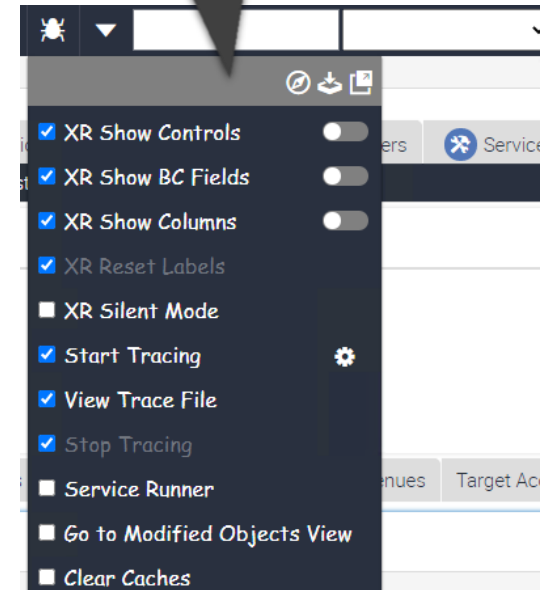
# APPLICATION MENU



New “Debug” menu in application

- Classic Style
- Floating Undocked
- Floating Toolbar

Yup, it's customizable





- 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 displays the Siebel CRM interface for an opportunity record titled "5000 bottles Romulan Ale". The record is highlighted with a red border. Below the record, the "Contacts" applet is visible, showing a list of contacts. A tooltip for the "Contact" business component is displayed, indicating the link to the opportunity and the parent business component. An "X-Ray" menu is open, showing various options for displaying business component fields and controls.

**Primary Business Component: Opportunity**

**Business Component: Contact**  
Link: Opportunity/Contact  
Type: M:M(S\_OPTY\_CON)  
Parent BC: Opportunity

**X-Ray Menu:**

- XR Show Controls
- XR Show BC Fields
- XR Show Col
- XR Reset Labels
- XR Silent Mode
- Start Tracing
- View Trace File
- Stop Tracing






# X-RAY SHOW TABLES/COLUMNS

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

The screenshot displays the Oracle Siebel CRM interface. The top menu bar includes File, Edit, View, Navigate, Query, Tools, and Help. The main content area shows the '5000 bottles Romulan Ale' record in the Opportunities List. The form contains various fields with their corresponding table and column names, such as S\_OPTY.NAME, S\_ORG\_EXT.NAME, S\_OPTY.SUM\_REVN\_AMT, S\_OPTY.CURCY\_CD, MVF: S\_CONTACT.LAST\_NAME, MVF: S\_CONTACT.FST\_NAME, MVF: S\_CONTACT.WORK\_PH\_NUM, MVF: S\_CONTACT.HOME\_PH\_NUM, S\_OPTY.SUM\_EFFECTIVE\_DT, S\_OPTY.SUM\_WIN\_PROB, MVF: S\_USER.LOGIN, MVF: S\_ORG\_EXT.NAME, S\_STG.NAME, S\_OPTY.DISC\_TXT, and S\_OPTY.SECURE\_FLG. A context menu is open over the form, showing options like 'XR Show Controls', 'XR Show BC Fields', 'XR Show Columns', 'XR Silent Mode', 'Start Tracing', 'View Trace File', 'Stop Tracing', 'Service Runner', and 'Go to Modified Objects View'.

# 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	<div>DisplayName: Last Name _ShowBCFields: Key Contact Last Name (text/50) _ShowTableColumns: MVF: S_CONTACT.LAST_NAME _ShowControls: Shuttle:Key Contact Last Name2&lt;br&gt;FINCORP Contact Assoc Applet&lt;br&gt;FINS Primary Contact Mvg Applet</div>					
Sales Team						
Sales Stage	Approved		Description	53w5	Secure	



# SQL TRACING

Click spur icon for options

The image shows a 'Start Tracing Options' dialog box and a 'Start Tracing' menu. The dialog box has the following fields:

- File Path: C:\Siebel\ses\siebsrvr\temp\
- Retain File: true
- Trace Type: SQL
- Additional Event Tracing: Presentation Model
- Slow Query Threshold (ms): 100

Buttons at the bottom: Save & Go, Save, Cancel.

The 'Start Tracing' menu is open, showing the following options:

- Start Tracing (with a gear icon)
- View Trace (with a tooltip: Start SQL/Allocation Tracing Kudos to Jason)
- Stop Tracing
- Service Runner
- Go to Modified Objects View
- Clear Caches
- About View
- eScript Playground
- Expression Playground
- Server Manager



# MESSAGE BAR: STOP'N'VIEW

Fastest option to stop tracing  
and open viewer

The screenshot displays the Siebel CRM interface. At the top, the 'MESSAGE BAR' contains the 'Stop'n'View' button, which is highlighted. Below the message bar, the 'Accounts Home' section shows the 'United Federation of Planets' account details. To the right, the 'Trace File Viewer' window is open, displaying a list of SQL queries and their execution details. The queries are numbered 1 through 29, showing timestamps and SQL statements. The 'Trace File Viewer' window also includes buttons for 'Show Chart', 'Show Stats', 'Show Slowest', 'Show RR Queries', 'Close', and 'Copy'.

Oracle Siebel CRM Interface

Message Bar: Stop'n'View

Accounts Home: United Federation of Planets

Trace File Viewer:

```
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 */
5     T1.CONFLICT_ID,
6     T1.LAST_UPD,
7     T1.CREATED,
8     T1.LAST_UPD_BY,
9     T1.CREATED_BY,
10    T1.MODIFICATION_NUM,
11    T1.ROW_ID,
12    T1.VERSION_NUM
13 FROM
14     SIEBEL.S_AUDIT_VERSION T1"
15 03/14/21,14:16:21,SQLTIME,2,1
16 03/14/21,14:16:21,SQLSTMT,SELECT,"SELECT
17     T1.CONFLICT_ID,
18     T1.DB_LAST_UPD_SRC,
19     T1.DB_LAST_UPD,
20     T1.LAST_UPD,
21     T1.CREATED,
22     T1.LAST_UPD_BY,
23     T1.CREATED_BY,
24     T1.MODIFICATION_NUM,
25     T1.ROW_ID,
26     T1.ATTRIB_TYPE,
27     T1.ATTRIB_VALUE,
28     T1.LOCALE_CODE,
29     T1.OBJECT_NAME,
```



# 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,SQLSTMT,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,SQLSTMT,2,SELECT,"SELECT
27     T1.CONFLICT_ID,
28     T1.LAST_UPD,
29     T1.CREATED,
```

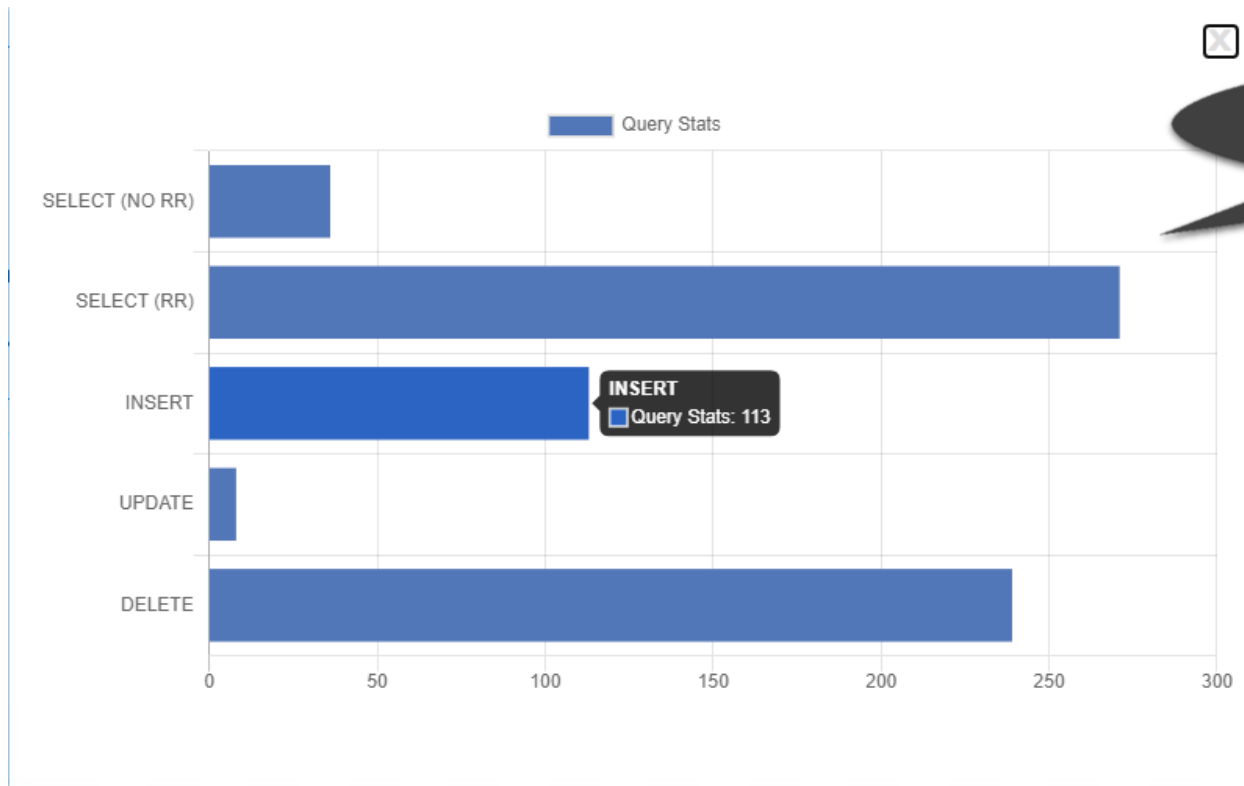
Lot's of options here...

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_INTX : 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_FNX : 24 #####
59 S_OPTY_PROD1_FNX : 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,
```

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

## 1. Select Service

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
- EALSMO 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

## 2. Select Method

## 3. Set Input Props

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



# BUSINESS SERVICE RUNNER

Business Service Runner (meep meep)

Load Preset:

Business Service (Type to search):

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 Investigator Role

ISS Account Instance

CMU Update Account Io

CMU AccSync Account Io

No more guessing

Business Service Runner (meep meep)

Business Service (Type to search):

Method:

ViewMode:

StartRowNum:

SortSpec:

SearchSpec:

PageSize:\*

OutputIntObjectName:

NewQuery:

BusObjCacheSize:

Output for nerds  
and other people

```
Time elapsed (ms) 21:28 GM:554
PropertySet
  ErrorContextIntComp =
  OMErrCode =
  ErrorContextSearchSpec =
  LastPage = false
  OMErrSymbol =
  ErrSymbol =
  ErrCode = 0x0
  NumOutputObjects = 10
  SiebelMessage
    MessageId = 1-2768
    IntObjectName = Internal Account Interface
    MessageType = Integration Object
    IntObjectFormat = Siebel Hierarchical
    ListOfInternal Account Interface
      Account
        Skip Credit Check = N
        PO Auto Approval Currency Code = USD

@0*0*8*1*0*0*19*ErrorContextIntComp0*8*LastPage5*false22*ErrorContextSearchSpec0*11*OMErrCode0*1*
OMErrSymbol0*9*ErrCode3*0x011*ErrSymbol0*16*NumOutputObjects2*104*1*13*SiebelMessage0*9*Mes:
eId6*1-276811*MessageType18*Integration Object13*IntObjectName26*Internal Account
Interface15*IntObjectFormat19*Siebel Hierarchical10*10*32*ListOfInternal Account
Interface0*37*6*7*Account0*16*PO Approved Flag0*30*PO Auto Approval Currency Code3*USD17*Skip Cred
```

New Use Last Output Run Save As Copy PropSet Close





# SAVE/LOAD PRESETS

ncc1701.company.com:4430 says

Save Preset as...

EAI Siebel Adapter\_QueryPage\_Vie\_All\_1217

OK Cancel

As simple as Save As..

Load Preset:	EAI Siebel Adapter_QueryPage_Vie_All_1217 ▼
Business Service (Type to search):	Please select...
Method:	EAI File Transport_Send_Fil_C:\1865
NewQuery:	EAI XML Converter_IntObjHierToXMLDoc_Sie_@0*8472
OutputIntObjectName:	EAI Siebel Adapter_QueryPage_Pag_105398
PageSize:	Eliza_Analyze_Inp_mee_4338
StartRowNum:	EAI File Transport_Send_Fil_C:\2615
ViewMode:	EAI File Transport_Send_Fil_C:\9639
	EAI Siebel Adapter_QueryPage_Vie_All_1217



# USE LAST OUTPUT

Business Service Runner (meep meep) x

Load Preset:

Business Service (Type to search):

Method:

XMLHeaderText:

XMLCharEncoding:

UseSiebelMessageEnvelope:

Tags on Separate Lines:

SiebelMessage:\*

Namespace:

IgnoreCharSetConvErrors:

GenerateSchemaTypes:

GenerateProcessingInstructions:

GenerateNamespaceDecl:

FileName:\*

EscapeNames:

Time elapsed (ms): 246  
24:49 GM:443  
PropertySet

@0\*0\*0\*0\*0\*0\*

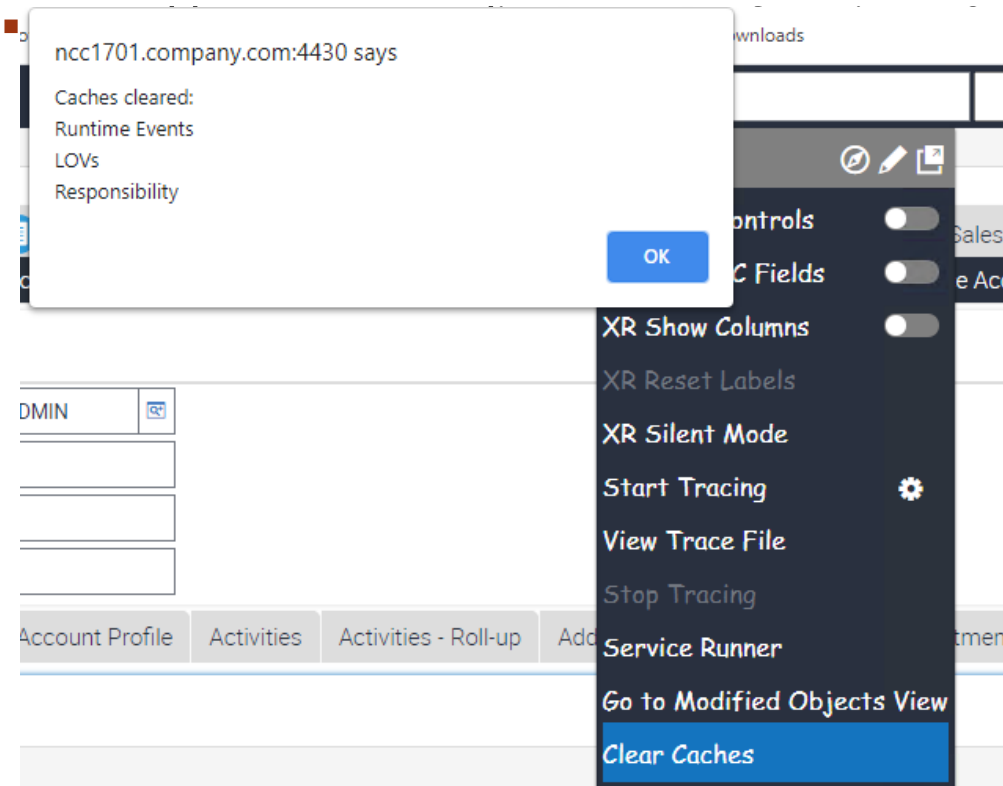
New Use Last Output Run Save As Copy PropSet Close

Yep, that's a  
property set alright

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



# CLEAR CACHES



No need to  
remember where  
that menu is.



# ABOUT VIEW

**About View**

**Application:** Siebel Universal Agent  
**View:** Account Detail - Contacts View  
**BusObject:** Account  
**Applets(2) / BusComps(2):**  
Account Contact List Applet / Contact

---

**Applet:** Account Contact List Applet  
**BusComp:** Contact  
**Mode:** Edit List  
**Title:** Contacts  
**Object Selector:** SiebelApp.S\_App.GetActiveView().GetAppletMap()['Account Contact List Applet']  
**DOM Selector:** \$('')  
**Controls (25):**  
**Query**

---

**Focus**

**Control:** NewQuery  
**Type:** Button  
**Input:** s\_1\_1\_8\_0  
**Object Selector:** SiebelApp.S\_App.GetActiveView().GetAppletMap()['Account Contact List Applet'].GetControls()['NewQuery']  
**DOM Selector:** \$('')  
**Method:** NewQuery  
**Method PS (13):**  
SWEField = s\_1\_1\_8\_0  
SWENeedContext = true  
SWER = 0  
SWESP = false  
SWERowIds = SWERowId0=1-IU3  
SWEMethod = NewQuery  
SWESend = true

The same, but on steroids...

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



# ESCRIPr 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.GetFieldValue("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 Excludes 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")
```

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)

The gift that keeps on giving

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



# SERVER MANAGER

ncc1701.company.com:4430 says

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

OK

Cancel

Server Manager Output

```
1 •
2 srvmgr> 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 srvmgr> 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     FMSrvr        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     SvrTblCleanup  Server Tables Cleanup  BusSvcMgr     SystemAux     Background     Running          Auto          1
24 server02     SvrTaskPersist  Server Task Persistence  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

Enter command(s)

See output in browser

Submit moar commands





# SERVER STATUS

Provide Credentials for Server Management

SADMIN

SADMIN  
.....

DEV1  
....

TSMYTHE  
.....

DEV2  
....

Go Cancel

Manage password

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

Logging SARM data for 255 seconds **Stop Now**

Start SARM Options

File Path

C:\Siebel\ses\siebsrvr\temp

Component Alias

sccobjmgr\_enu

Siebel Server

server01

Duration (min 60 seconds)

300

Save & Go

Save

Cancel

Set options

SARM enabled for  
current user only

## Server Manager Output

```
1 .
2 srvrmgr> set server server01
3 set server server01
4
5 srvrmgr:server01> change param sarmlogdirectory=undefined for comp sccobjmgr_enu
6 change param sarmlogdirectory=undefined for comp sccobjmgr_enu
7 Command completed successfully.
8
9 srvrmgr:server01> change param sarmperiod=1 for comp sccobjmgr_enu
10 change param sarmperiod=1 for comp sccobjmgr_enu
11 Command completed successfully.
12
13 srvrmgr:server01> change param sarmusers=SADMIN for comp sccobjmgr_enu
14 change param sarmusers=SADMIN for comp sccobjmgr_enu
15 Command completed successfully.
16
17 srvrmgr:server01> change param sarmlevel=2 for comp sccobjmgr_enu
18 change param sarmlevel=2 for comp sccobjmgr_enu
19 Command completed successfully.
20
21 srvrmgr: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 PA_SETLEVEL PA_DISP_SETLEVEL PA_EFF_NEXT_TASK PA_EFF_CMP_RSTRT PA_EFF_SRVR_F
25 -----
26 SARMLevel 2 Integer Subsystem (SARM) Response Measurement Comp level Component level set N N N
27
28 1 row returned.
29
```



# STOP SARM

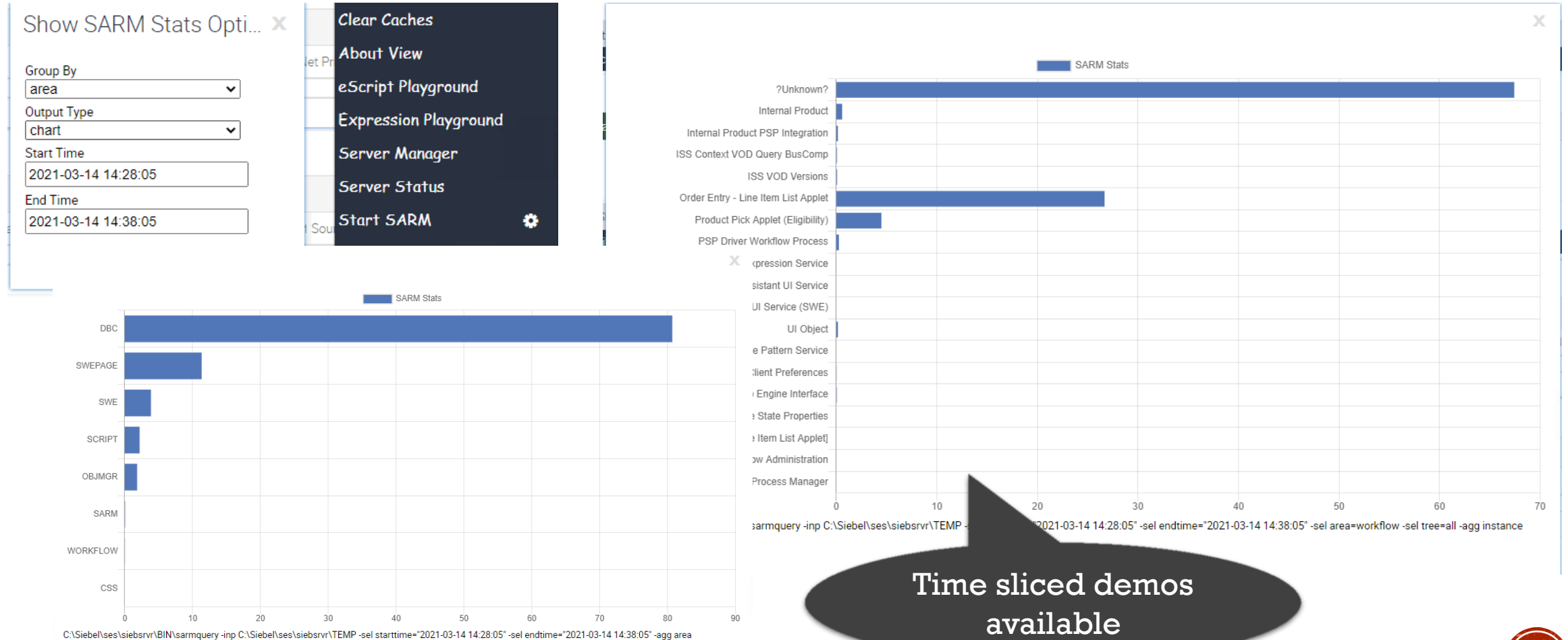
## Server Manager Output

```
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 SARMLLevel 0      Integer      Subsystem  (SARM) Response Measurement  Default value  Default value  N      N      N
24 SARMLLevel 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

1 of 10+

Product★ Package Product Type Package Organization Default Orga

Description Status SEBLRSVLP1 Product Line Unit of Measure Structure Type

Payment Type

Product Level Qty Equivalent Pro

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 ☐ Image Sou

Marketing Service Logistics

Targeted Industry MTRE Primary Ven

Targeted M Vendor

From this hot mess...

1 of 10+

► 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

...to this beauty with  
one click



# GET IT ON GITHUB

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

The screenshot shows the GitHub repository page for `blacksheep-crm/devpops`. The repository has 5 stars and 6 forks. The main branch is `main` with 1 branch and 0 tags. The repository description states: "Combining utilities from blacksheep and the Siebel community into a unique developer toolkit." The repository contains 82 commits. The file list includes:

File Name	Commit Message	Commit Time
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

The right sidebar shows the repository's About section, which includes a Readme link. The Releases section indicates that no releases have been published. The Packages section indicates that no packages have been published. The Languages section shows that JavaScript accounts for 100.0% of the code.

