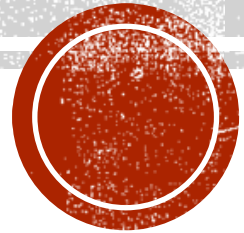
BLACKSHEEP
IT CONSULTING

# DEVPOPS

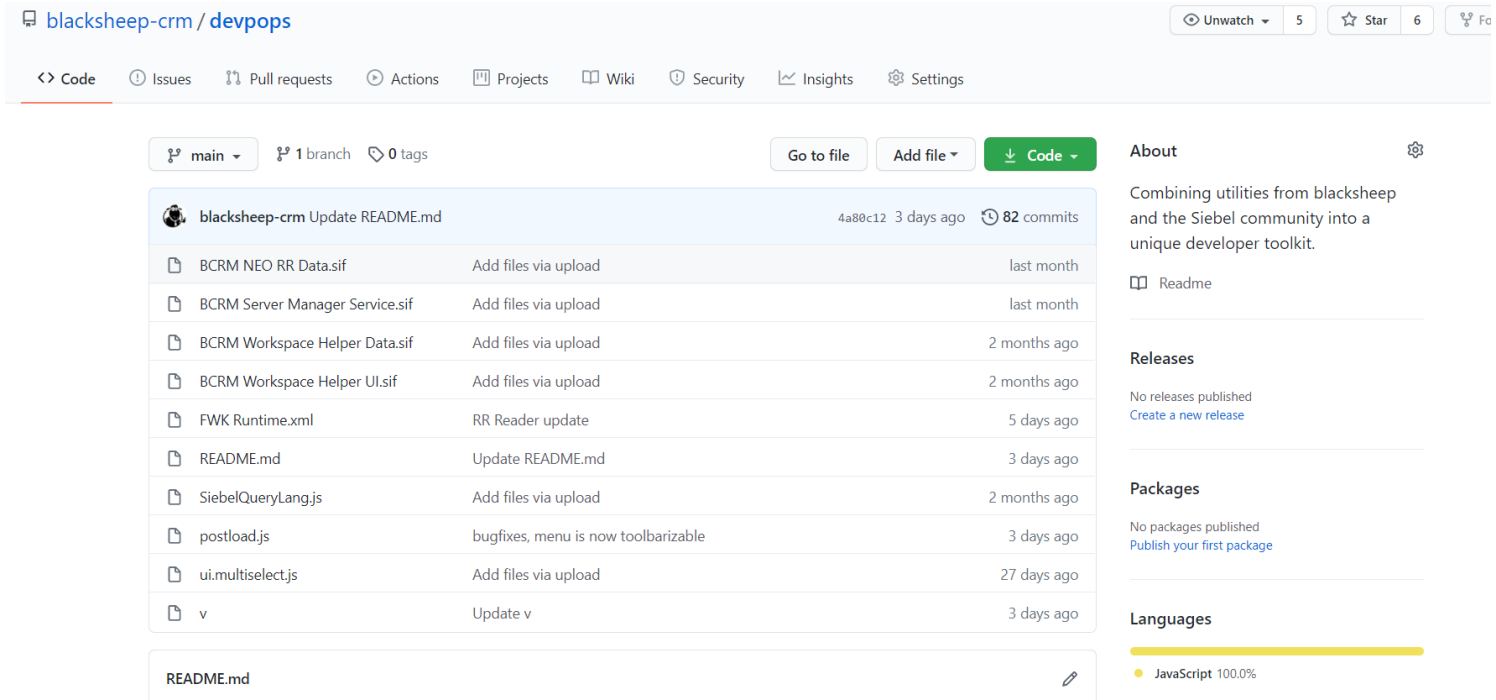
Feature Overview

Release 21.3



# GET IT ON GITHUB

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

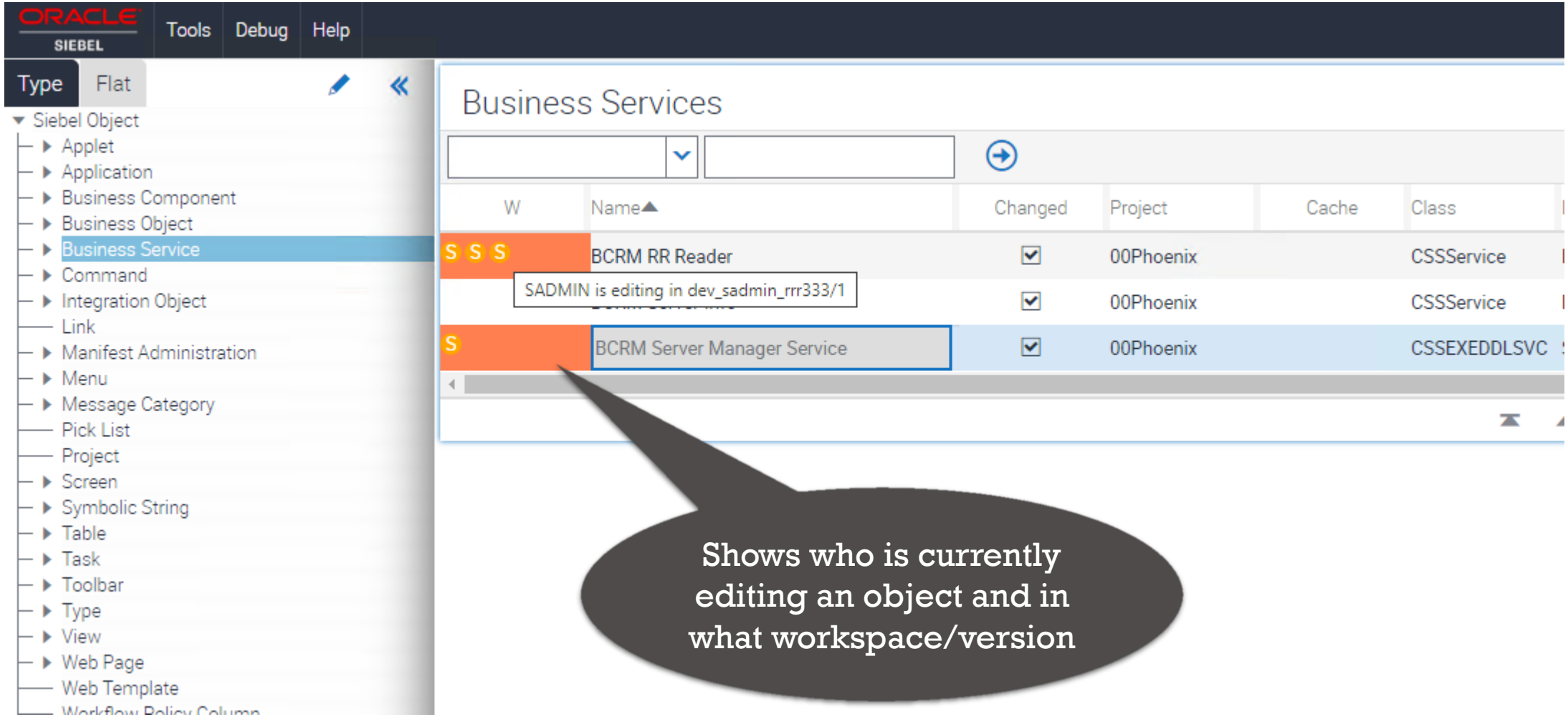


# READ THIS!

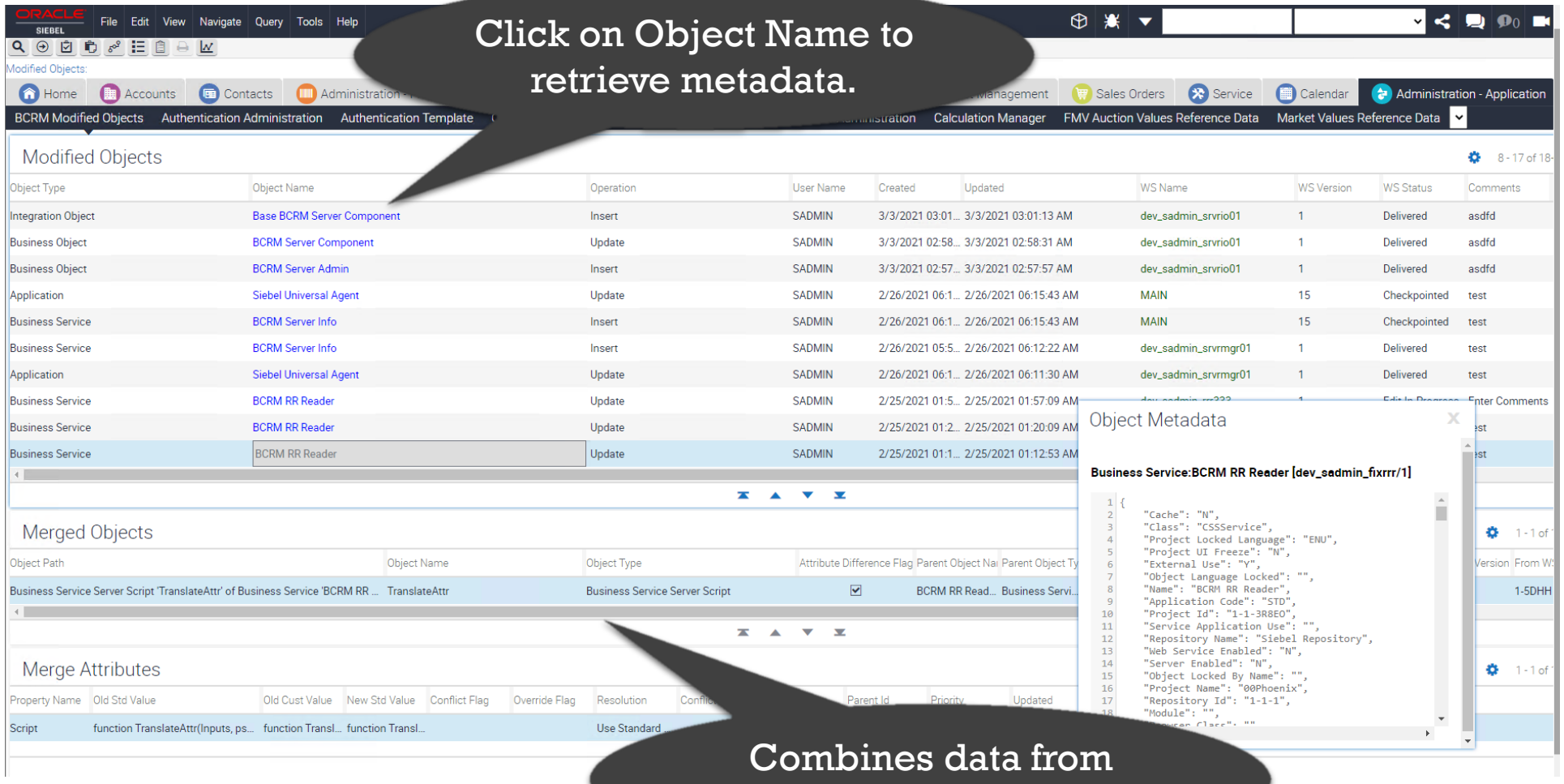
devpops

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

# WEB TOOLS WHODUNNIT



# MODIFIED OBJECTS VIEW



# 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 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\n                    //Field name array\n
   if (j == 3) {\n                        arTypeRR.push(ts);\n                    }\n                    //array of \"No
Compile\" flags\n                    if (j == 4) {\n                        arTypeNoCompRR.push(ts);\n
}\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        Outputs.SetProperty(
arTypeFilteredRR.join(\",\"));\n    }\n    catch(e){\n        TheApplication().RaiseErrorTe
GetTypeRRFieldMap: \" + e.toString());\n    }\n}",
```

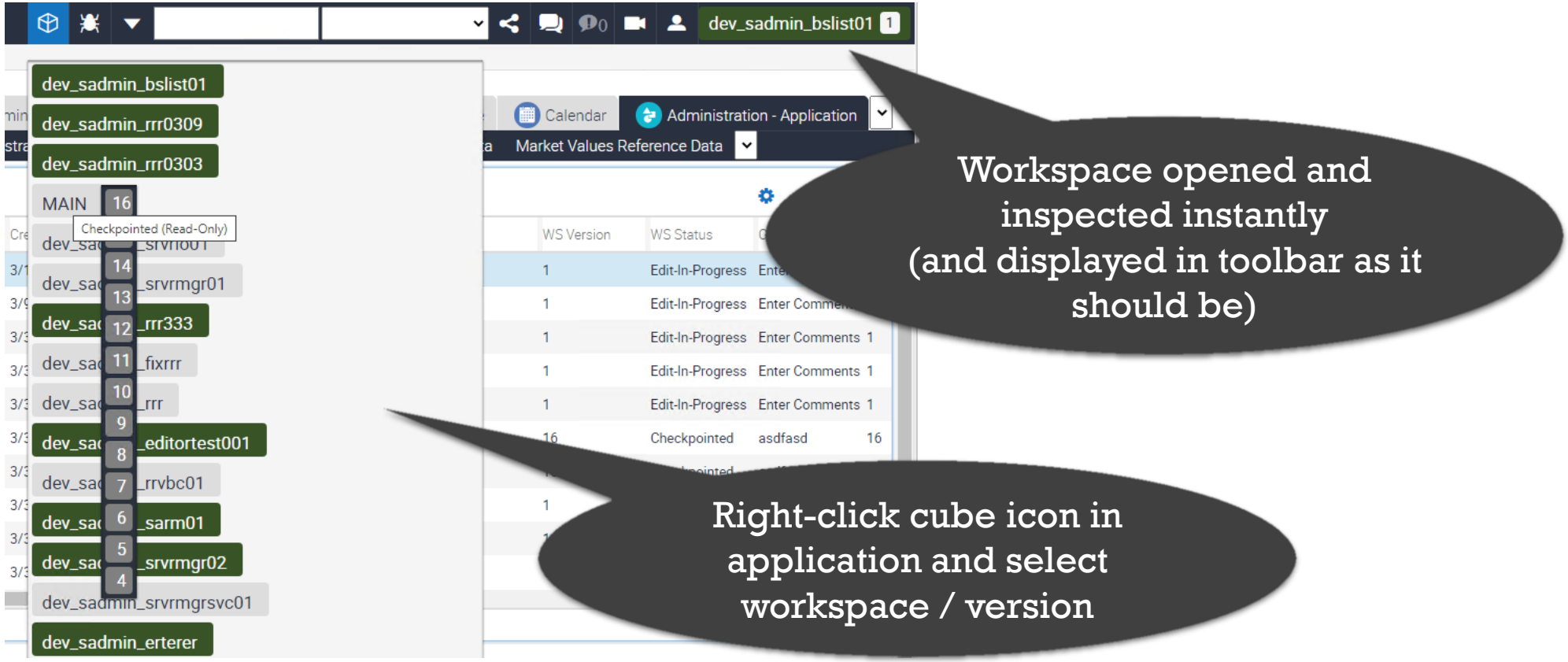
Needs a bit more work but already supports script diff

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

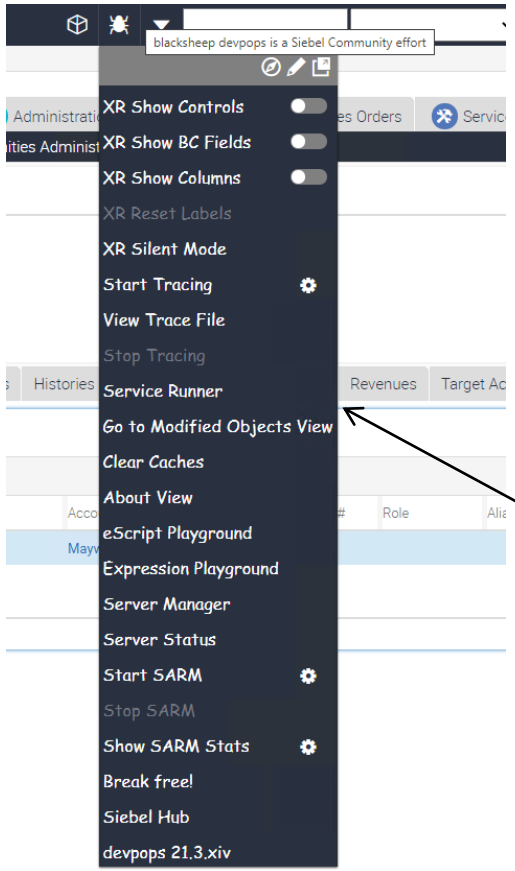
Business Service:BCRM RR Reader [dev_sadmin_rrr0309/1]

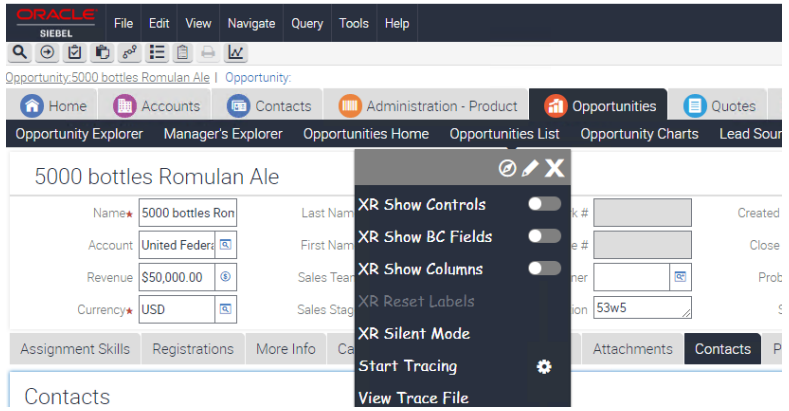
```
   var arTypeNoCompRR = [];\n        var arTypeFilteredRR = [];\n        //kudos to Henrik T.\n        var arTypeNoExtRR
= [];\n\n        var cc = psOut.GetChildCount();\n        if (cc > 0) {\n            for (var i = 0; i < cc; i++) {\n
        psDef = psOut.GetChild(i);\n                sAttr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

# WORKSPACE FAST INSPECT

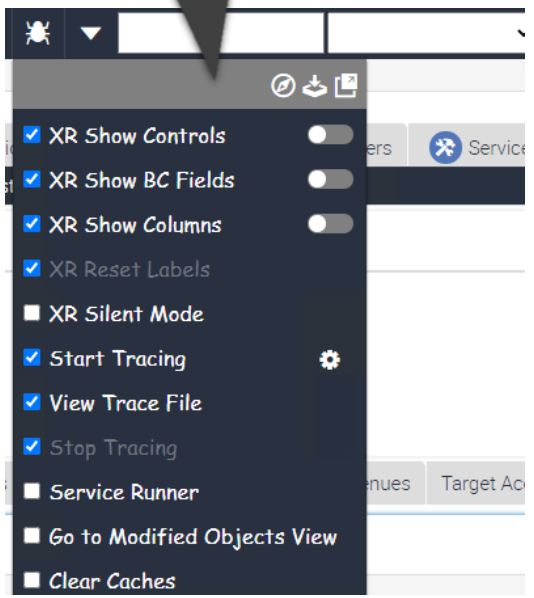


# APPLICATION MENU



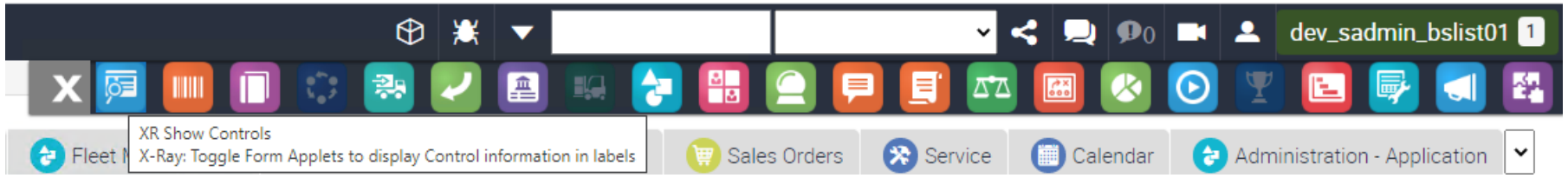




Yup, it's customizable




New "Debug" menu in application

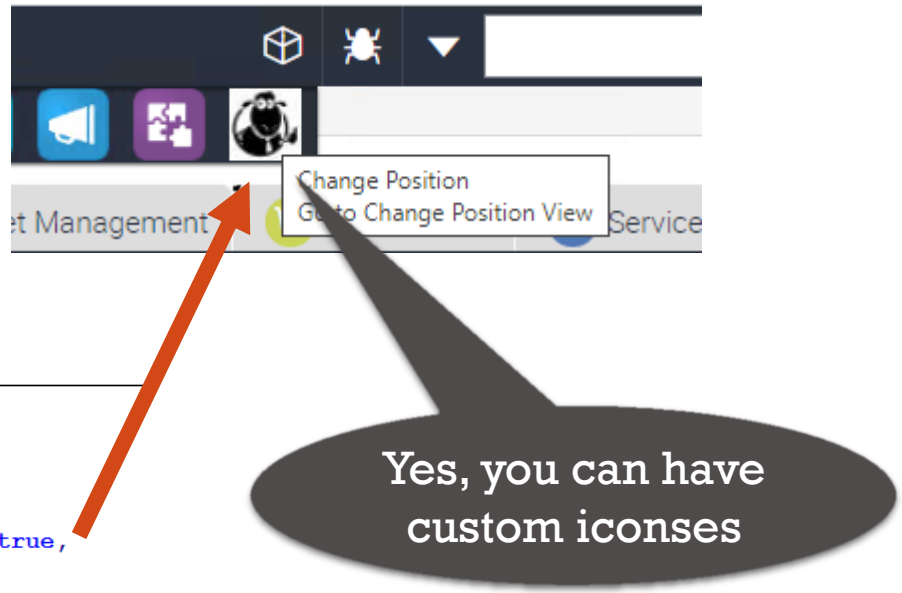
- Classic Style
- Floating Undocked
- Floating Toolbar



# CUSTOMIZABLE MENU

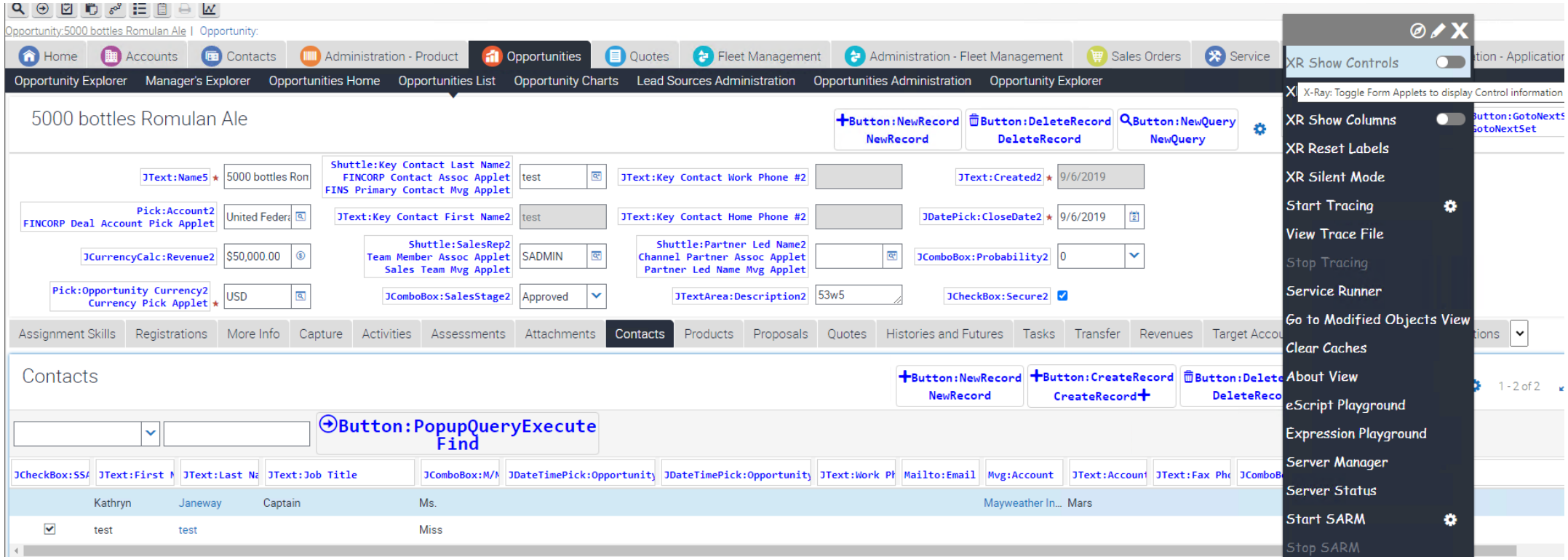
- Override menu in BCRMCustomizeDebugMenu function

```
//blacksheep devpops
//EDUCATIONAL SAMPLE!!! DO NOT USE IN PRODUCTION!!!

BCRMCustomizeDebugMenu = function () {
    //put your menu customizations here
    //visit the BCRMCreateDebugMenu method to see pre-defined menu items
    //Example:
    /*

    //new item (copy one from BCRMCreateDebugMenu function and modify)

    BCRM_MENU["GotoView2"] = {
        "seq": 101,
        "enable": localStorage.getItem("BCRM_MENU_ENABLE_GotoView2") == "false" ? false : true,
        "label": "Change Position",
        "title": "Go to Change Position View",
        "onclick": function () {
            var r = BCRMCloseDebugMenu();
            SiebelApp.S_App.GotoView("Change Position View");
            return r;
        },
        "img": "https://avatars.githubusercontent.com/u/31369901?s=32&v=4"
    };

};
```



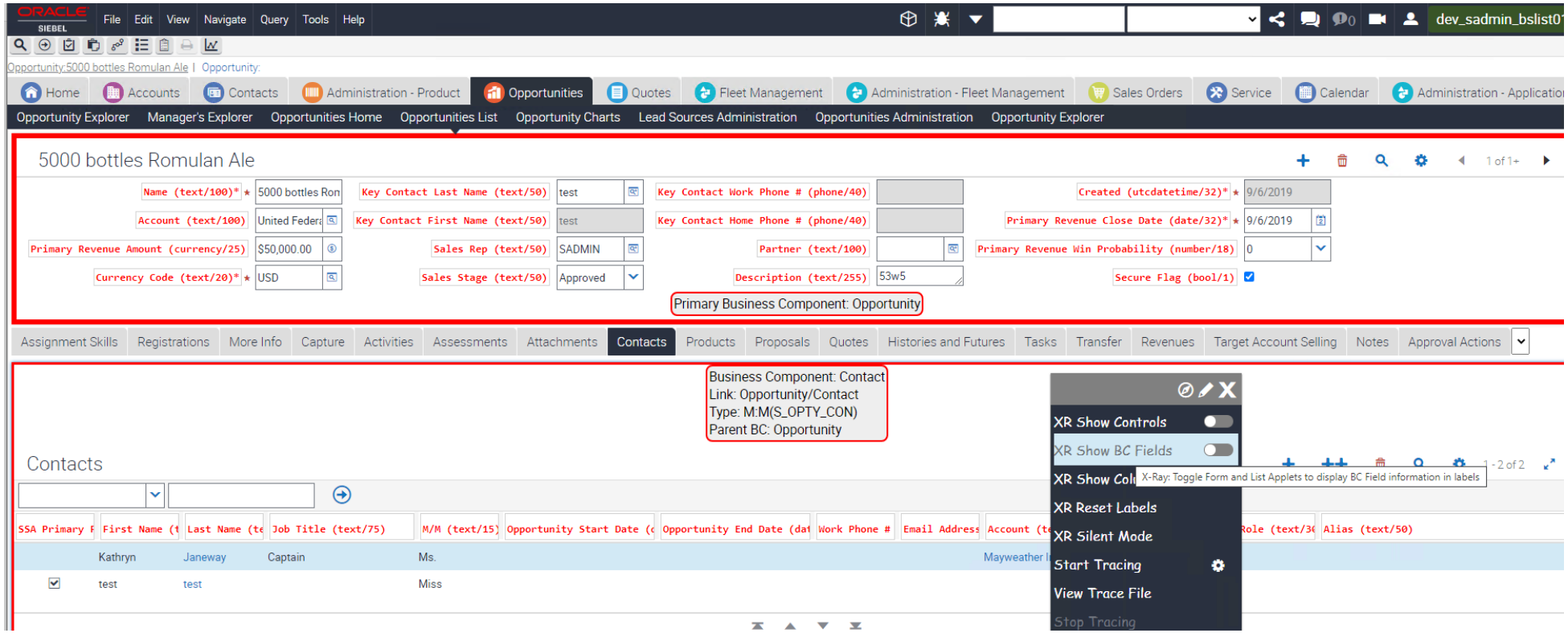
# X-RAY SHOW CONTROLS

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



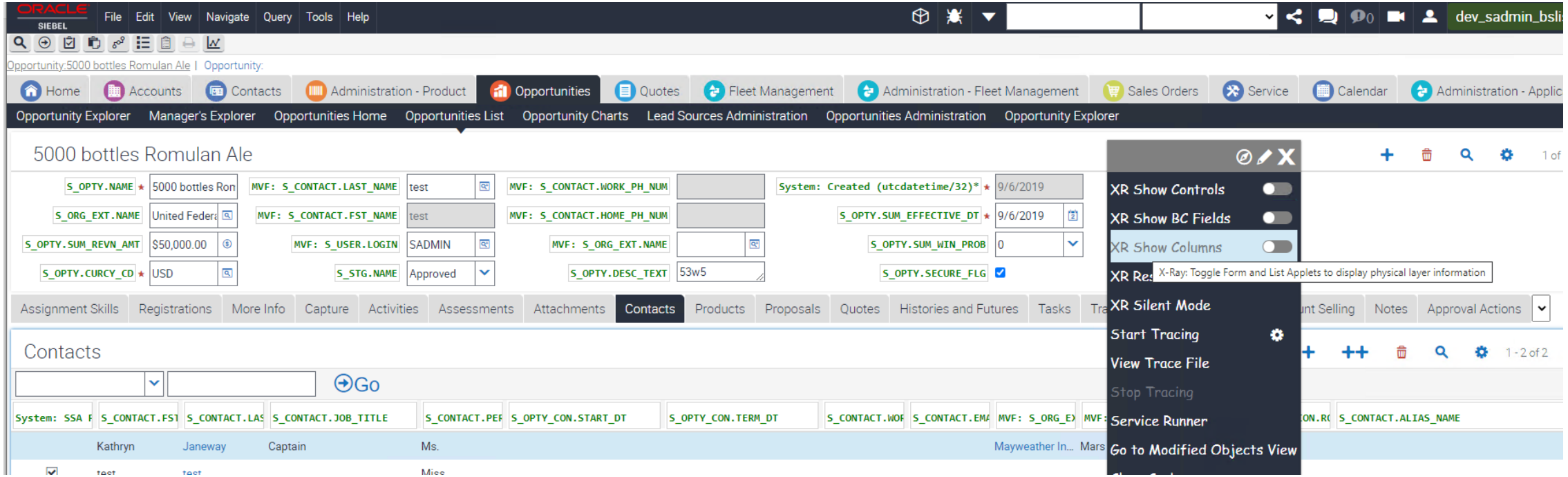
# X-RAY SHOW BC FIELDS

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



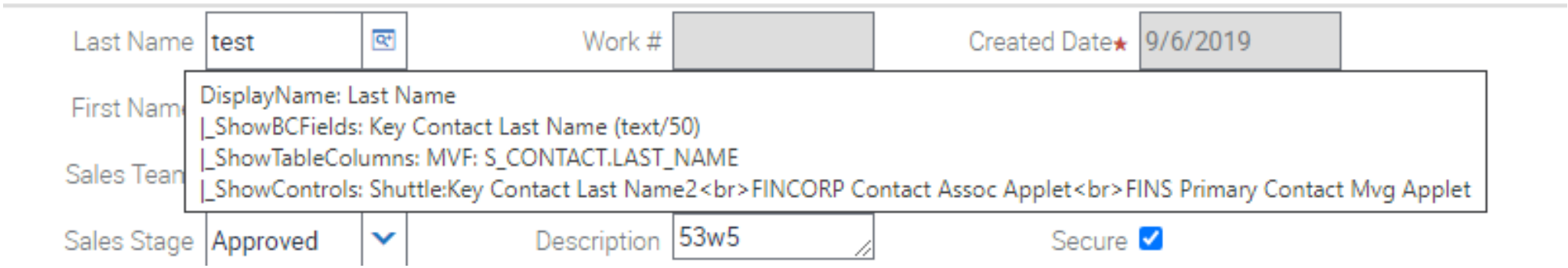
# X-RAY SHOW TABLES/COLUMNS

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

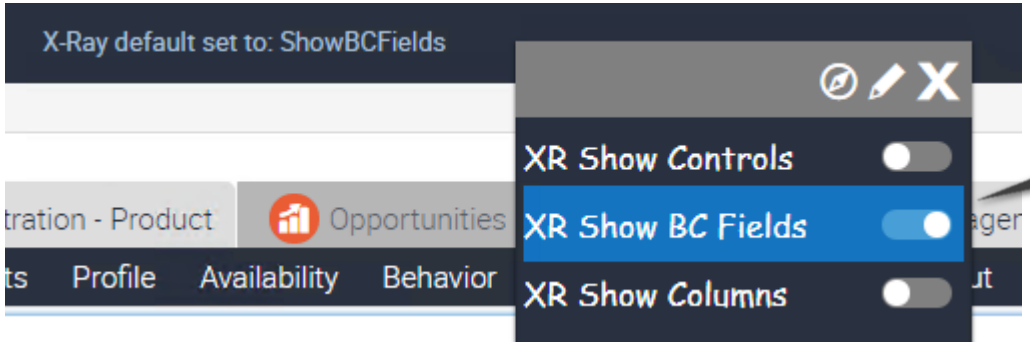


# X-RAY SILENT MODE / TOOLTIP

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

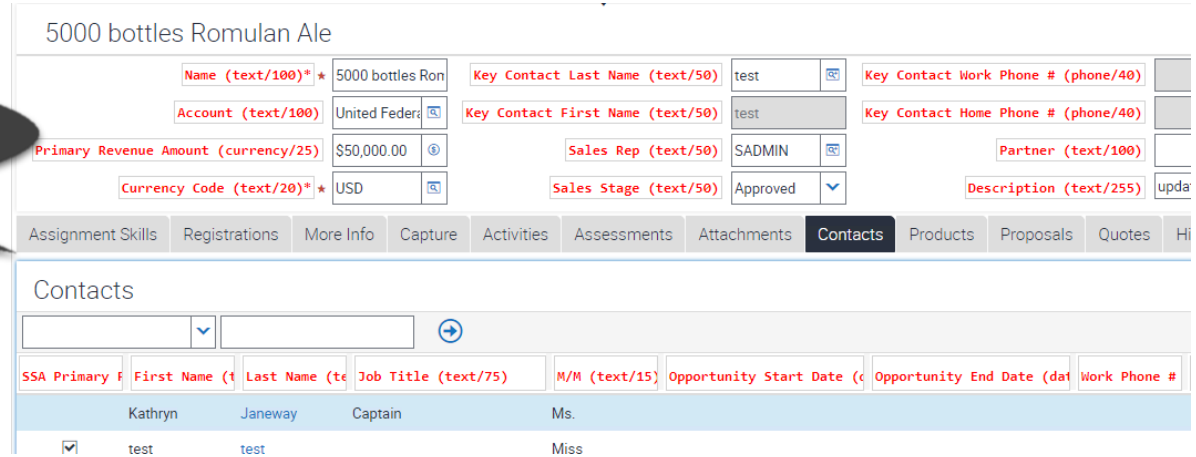


# X-RAY ALWAYS ON

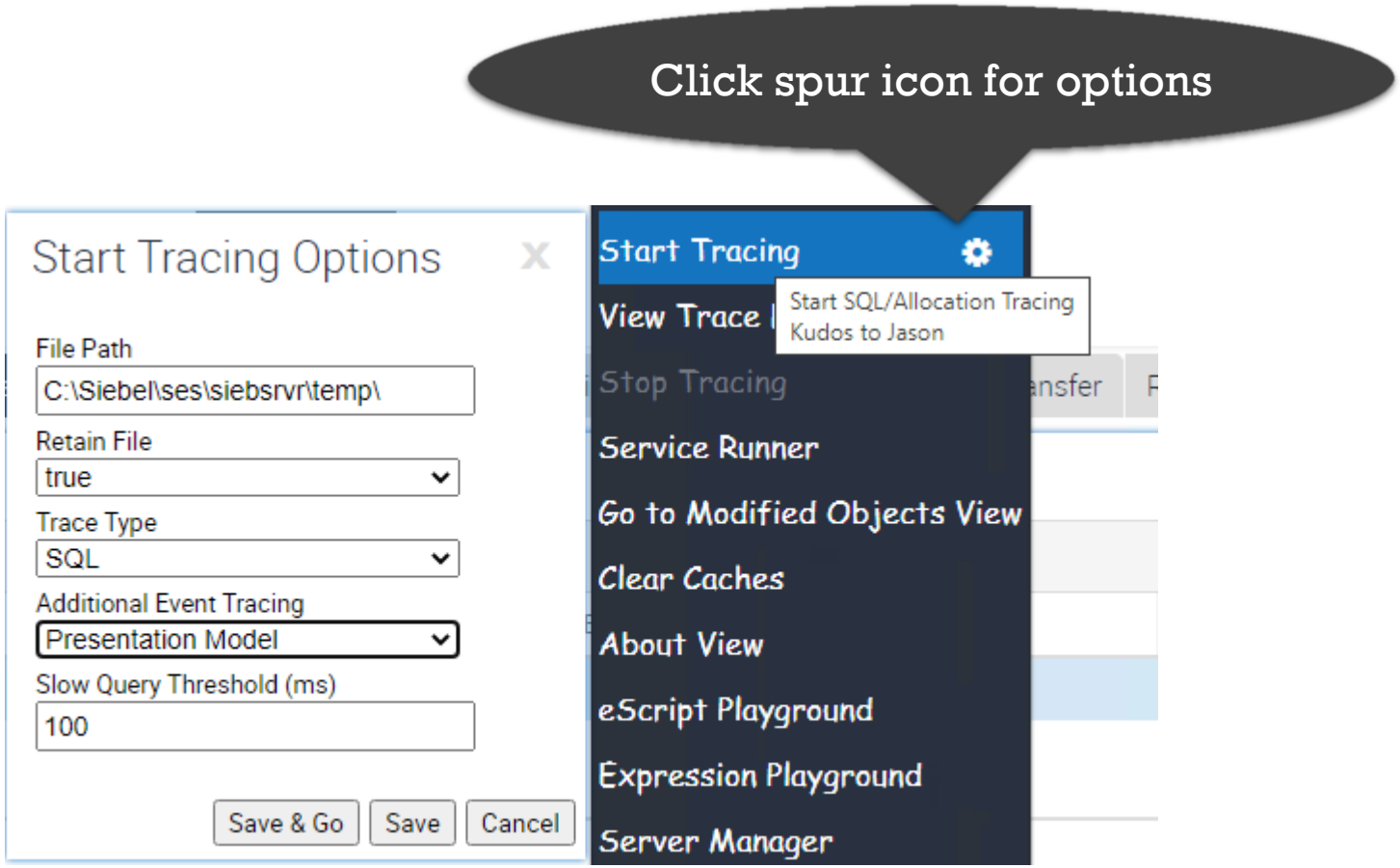



Flip switch to "on"

After navigation, all applets will be x-rayed automatically

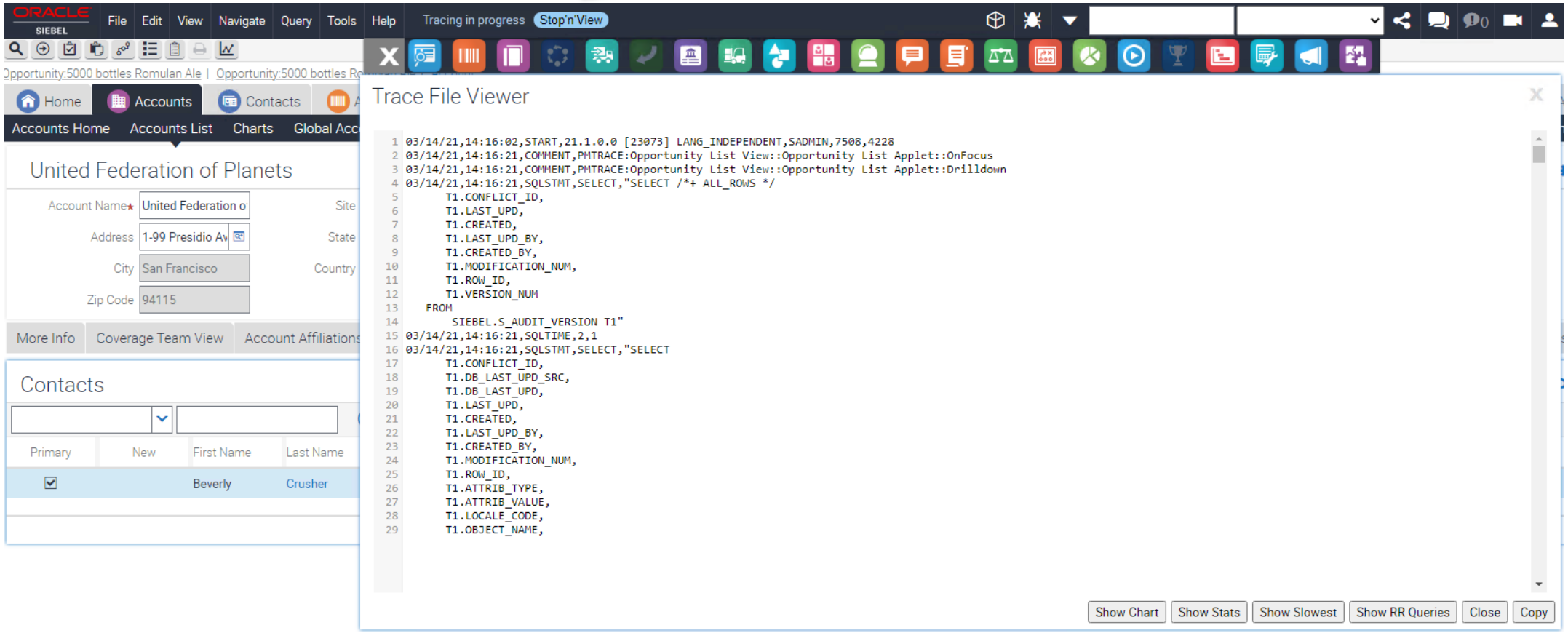


# SQL TRACING

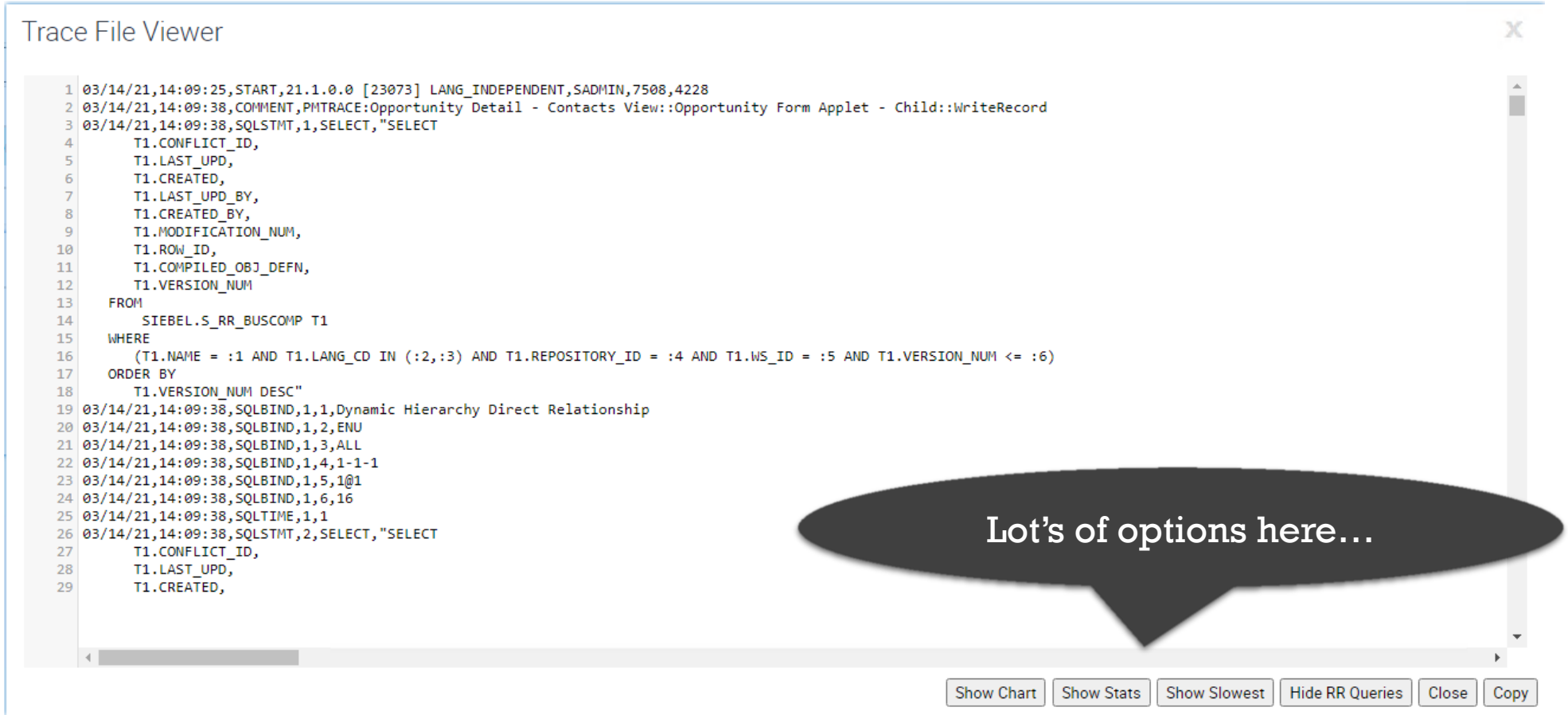

Click spur icon for options
Start Tracing Options
File Path
C:\Siebel\ses\siebsrvr\temp\
Retain File
true
Trace Type
SQL
Additional Event Tracing
Presentation Model
Slow Query Threshold (ms)
100
Save & Go
Save
Cancel
Start Tracing
View Trace
Stop Tracing
Start SQL/Allocation Tracing
Kudos to Jason
Service Runner
Go to Modified Objects View
Clear Caches
About View
eScript Playground
Expression Playground
Server Manager

# MESSAGE BAR: STOP'N'VIEW

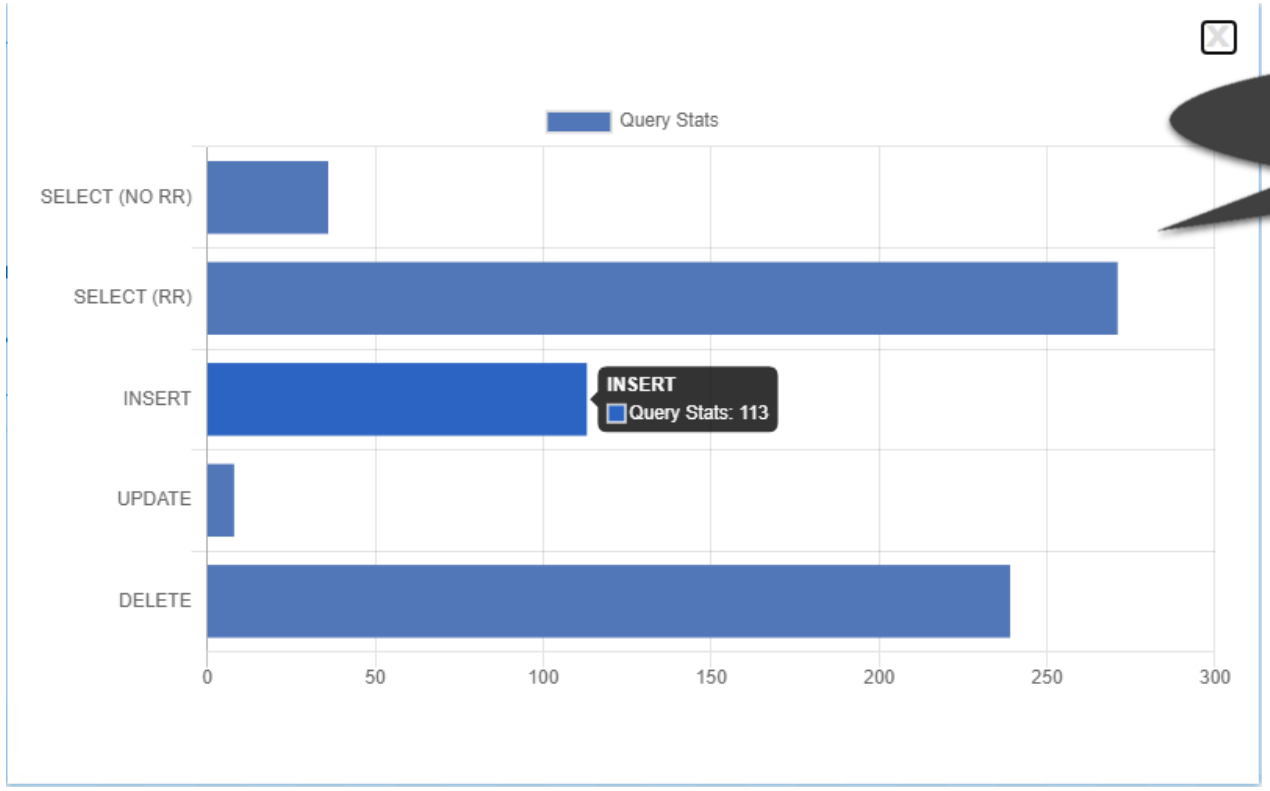
Fastest option to stop tracing and open viewer



# TRACE FILE VIEWER



# TRACE STATS CHART




Simple Demo of statement count by type.

# TRACE STATS

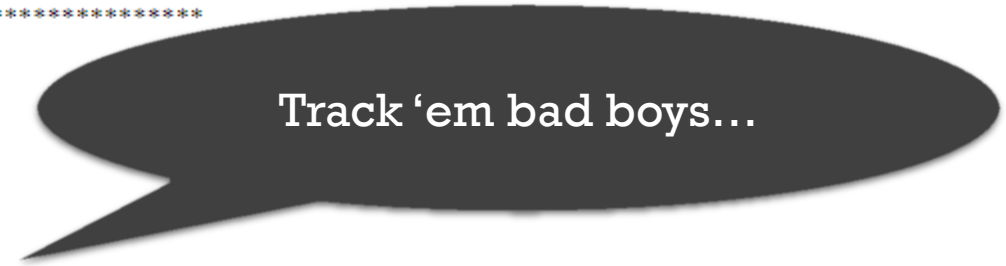
```
SQL TRACE STATS
Trace started    : 3/14/2021, 2:09:38 PM
Trace stopped    : 3/14/2021, 2:10:10 PM
Total Statements : 667
Time Measurements: 326
Total DB Time(ms): 1015
Worst SELECT (ms): 217
Worst INSERT (ms): 0
Worst UPDATE (ms): 0
Worst DELETE (ms): 296


DETAILED QUERY COUNTS
SELECT (NO RR):36   #########
SELECT (RR)   :271  ############################################################
INSERT        :113  ########################
UPDATE        :8    ###
DELETE        :239  ################################################


TOP 10 TABLE USAGE: SELECT
S_USER                    : 40   ########################################
S_PROJECT                 : 34   ##################################
S_LST_OF_VAL              : 12   ##############
S_POSTN                   : 10   ############
S_OPTY                    : 9    ###########
S_PARTY                   : 9    ###########
S_ORG_EXT                 : 7    #########
S_CONTACT                 : 6    ########
S_LST_OF_VAL_BU           : 6    ########
S_SM_STATE                : 6    ########


TOP 10 TABLE USAGE: INSERT
S_DOCK_TXN_LOG            : 55   ############################################################
S_DOCK_TXN_SET            : 45   ################################################
S_AUDIT_ITEM              : 6    ########
S_OPTY                    : 1    ###
S_OPTY_DSGN_REG           : 1    ###
S_REVN                    : 1    ###
S_OPTY_TNTX               : 1    ###
S_OPTY_POSTN              : 1    ###
S_OPTY_BU                 : 1    ###
S_OPTY_UTX                : 1    ###


TOP 10 TABLE USAGE: UPDATE
S_OPTY                    : 2    ####
S_SSA_ID                  : 1    ###
S_OPTY_POSTN              : 1    ###
S_OPTY_BU                 : 1    ###
S_DOC_QUOTE               : 1    ###
S_EVT_ACT                 : 1    ###
S_DOC_AGREE               : 1    ###


TOP 10 TABLE USAGE: DELETE
S_OPTY_PROD_FNX           : 24   ############################
S_OPTY_PROD1_FNX          : 24   ############################
S_REVN_X                  : 24   ############################
```

Retro Aggregation
What does that even mean?

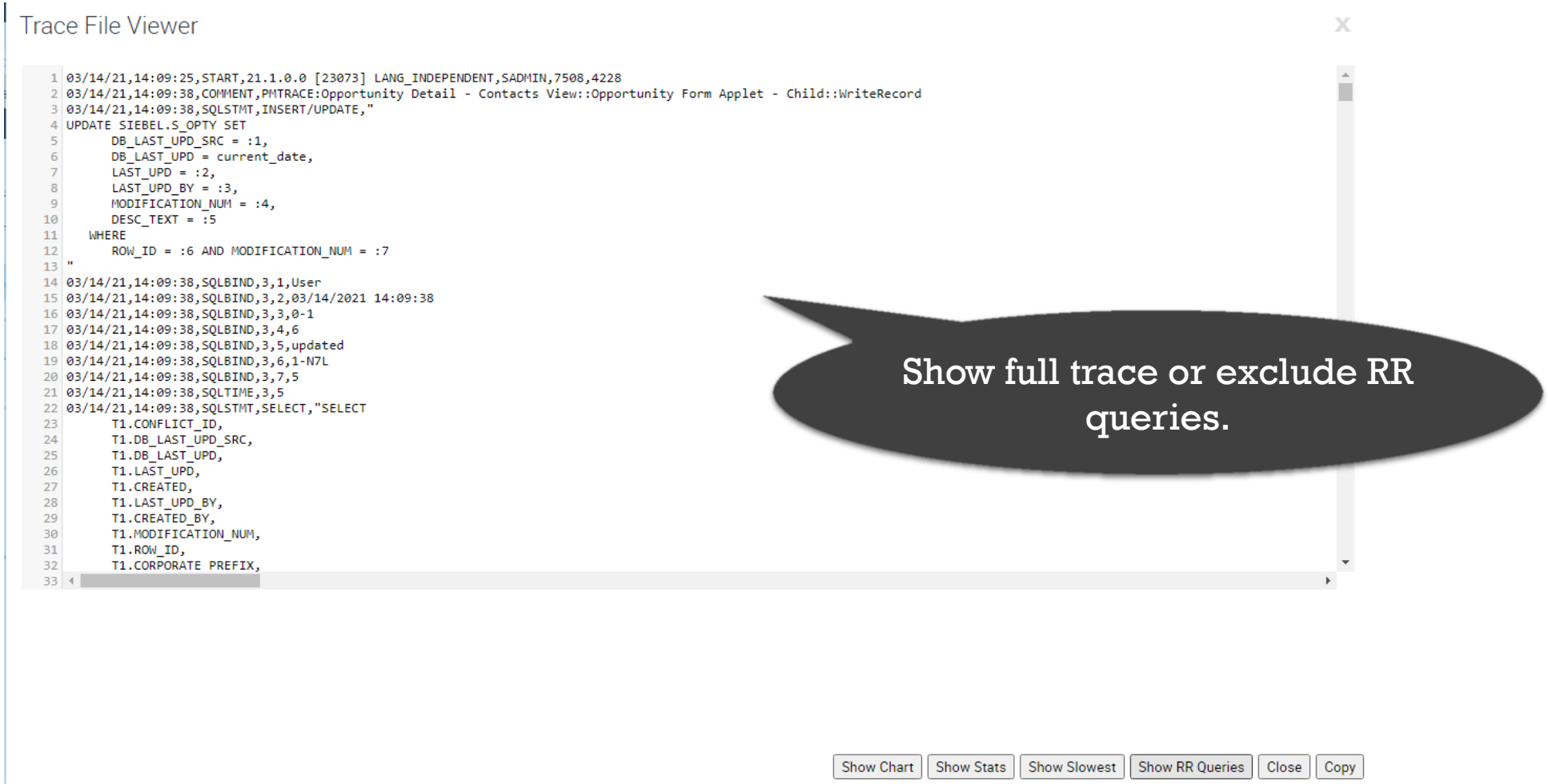
# SLOW SQL

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,
```



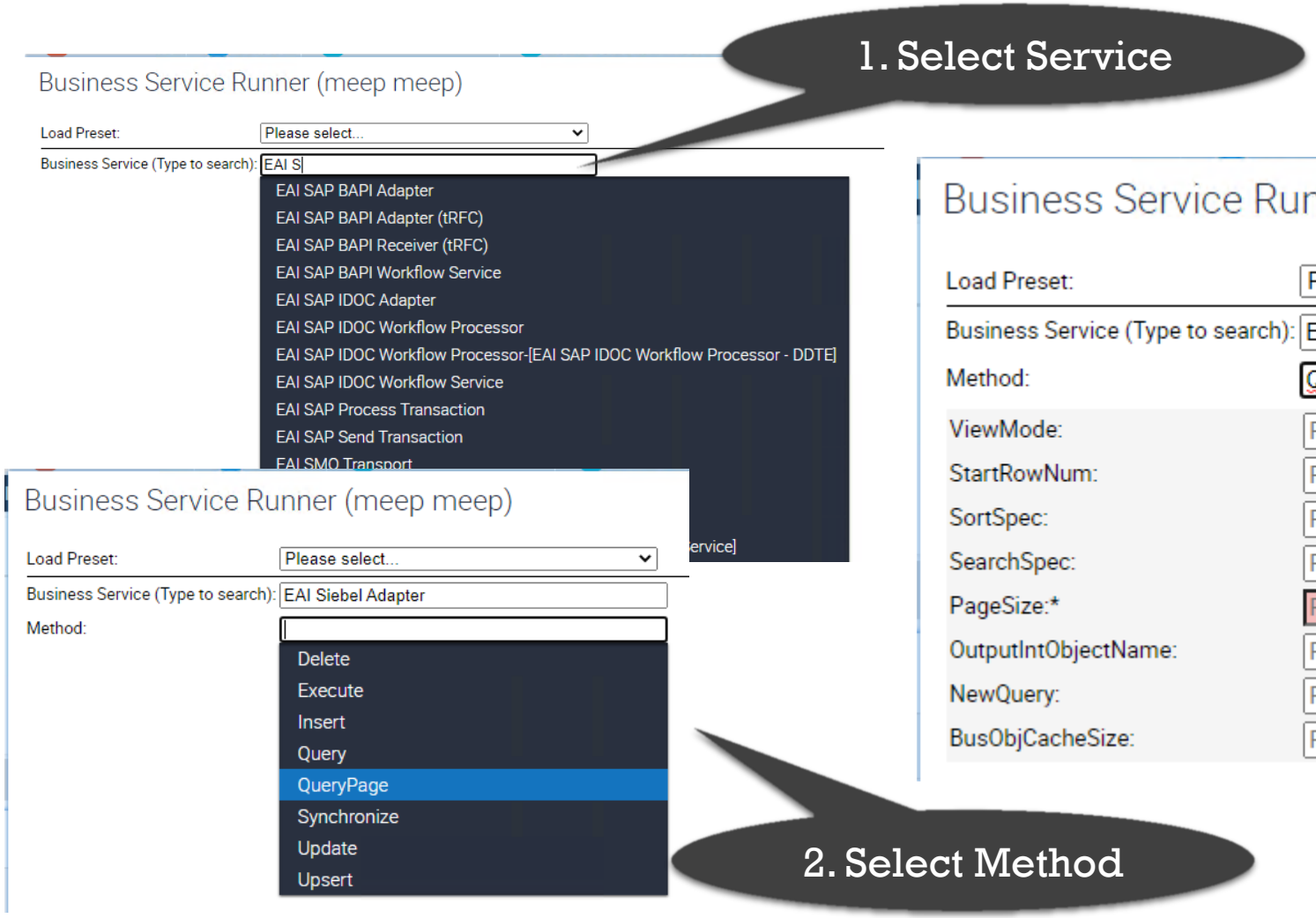
# HIDE/SHOW RR QUERIES



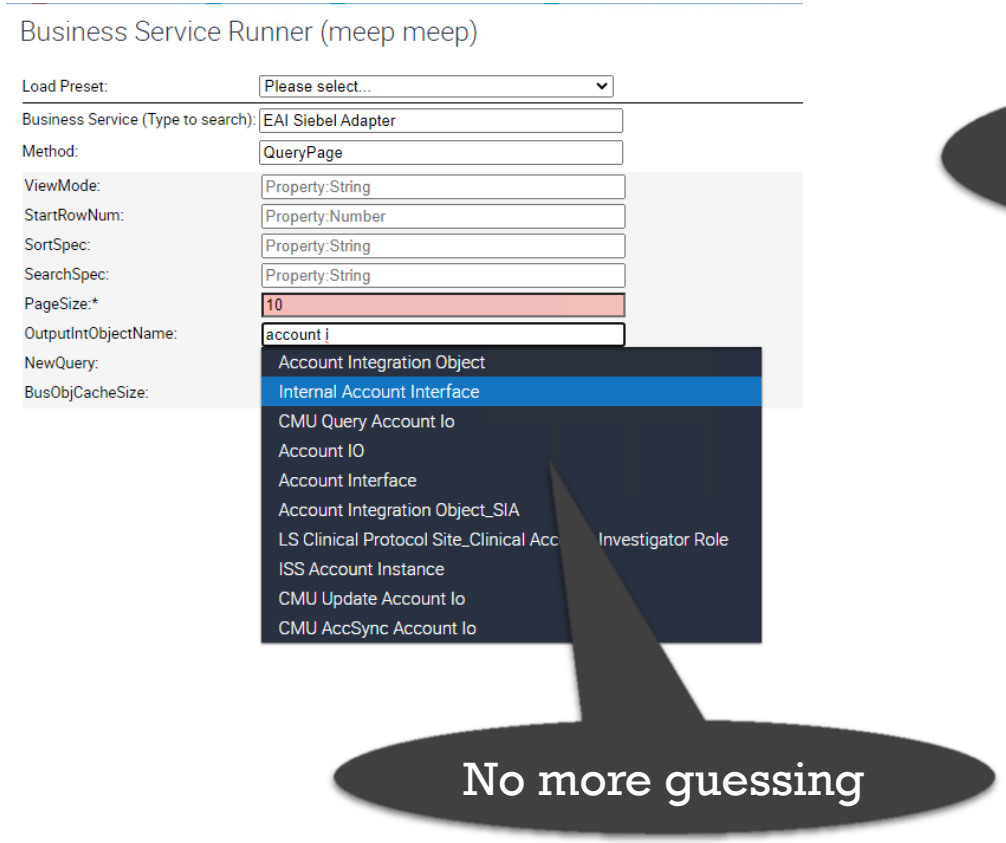
# COPY TO CLIPBOARD

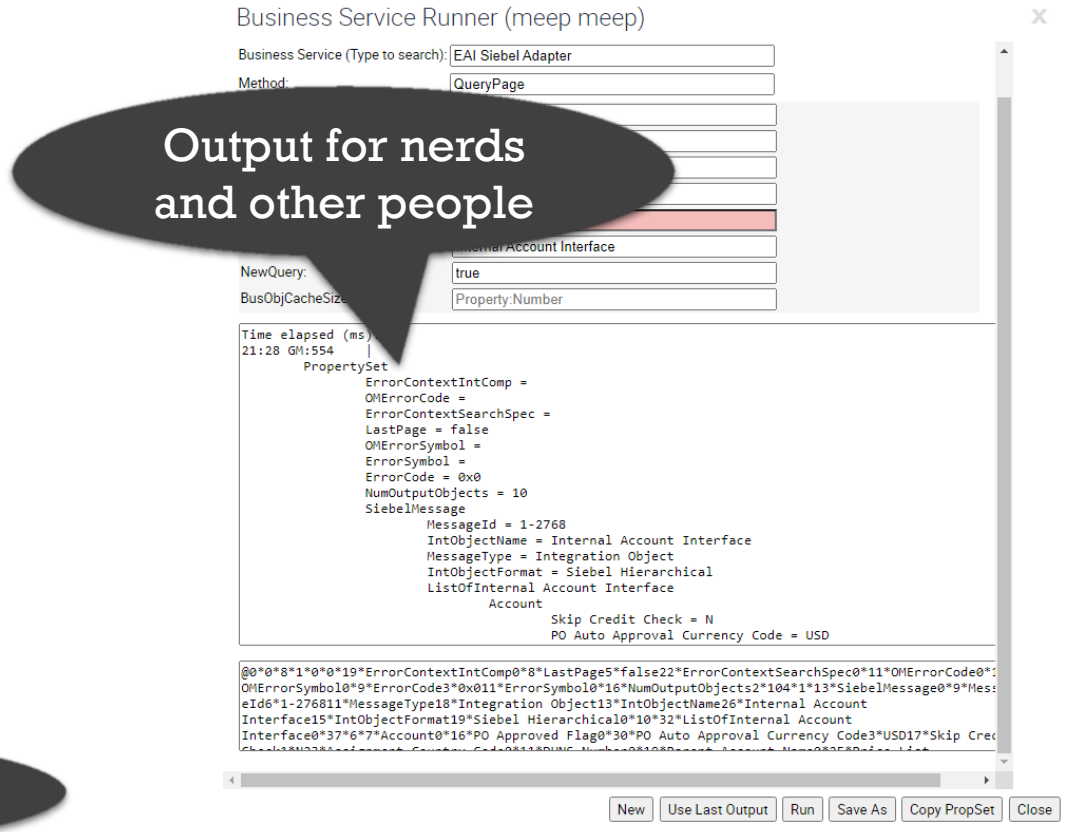
```
03/14/21,14:09:43,,COMMENT,VIEWTRACE:Opportunity Attachment View::postload
03/14/21,14:09:46,COMMENT,PMTRACE:Opportunity Attachment View::Opportunity Attachment Applet::Drilldown
03/14/21,14:09:54,SQLSTMT,SELECT,"SELECT /*+ ALL_ROWS */
      T1.CONFLICT_ID,
      T1.LAST_UPD,
      T1.CREATED,
      T1.LAST_UPD_BY,
      T1.CREATED_BY,
      T1.MODIFICATION_NUM,
      T1.ROW_ID,
      T1.VERSION_NUM
   FROM
       SIEBEL.S_AUDIT_VERSION T1"
03/14/21,14:09:54,SQLTIME,73,1
03/14/21,14:09:54,SQLSTMT,SELECT,"SELECT
      T27.CONFLICT_ID,
      T27.LAST_UPD,
      T27.CREATED,
      T27.LAST_UPD_BY,
      T27.CREATED_BY,
      T27.MODIFICATION_NUM,
```

# BUSINESS SERVICE RUNNER



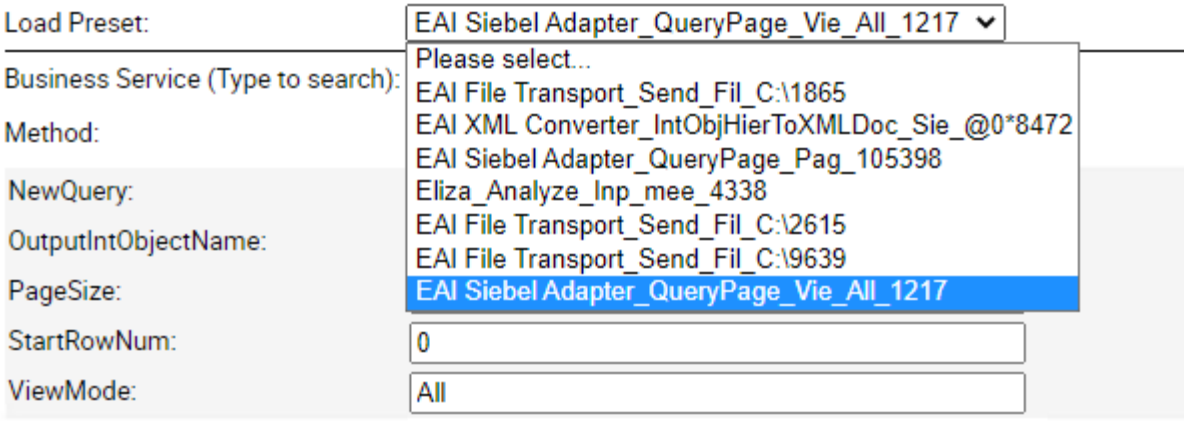
# BUSINESS SERVICE RUNNER

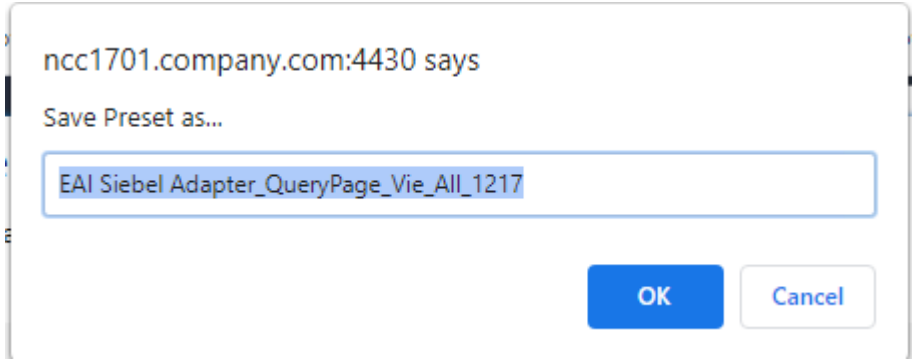


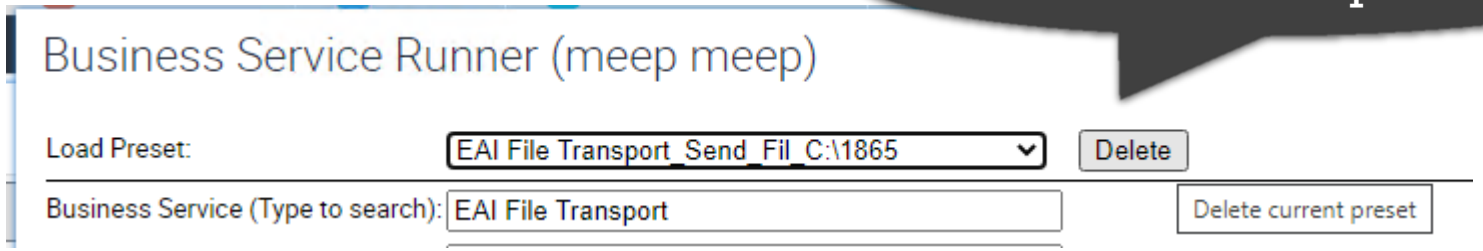
# SAVE/LOAD/MANAGE PRESETS

As simple as Save As..

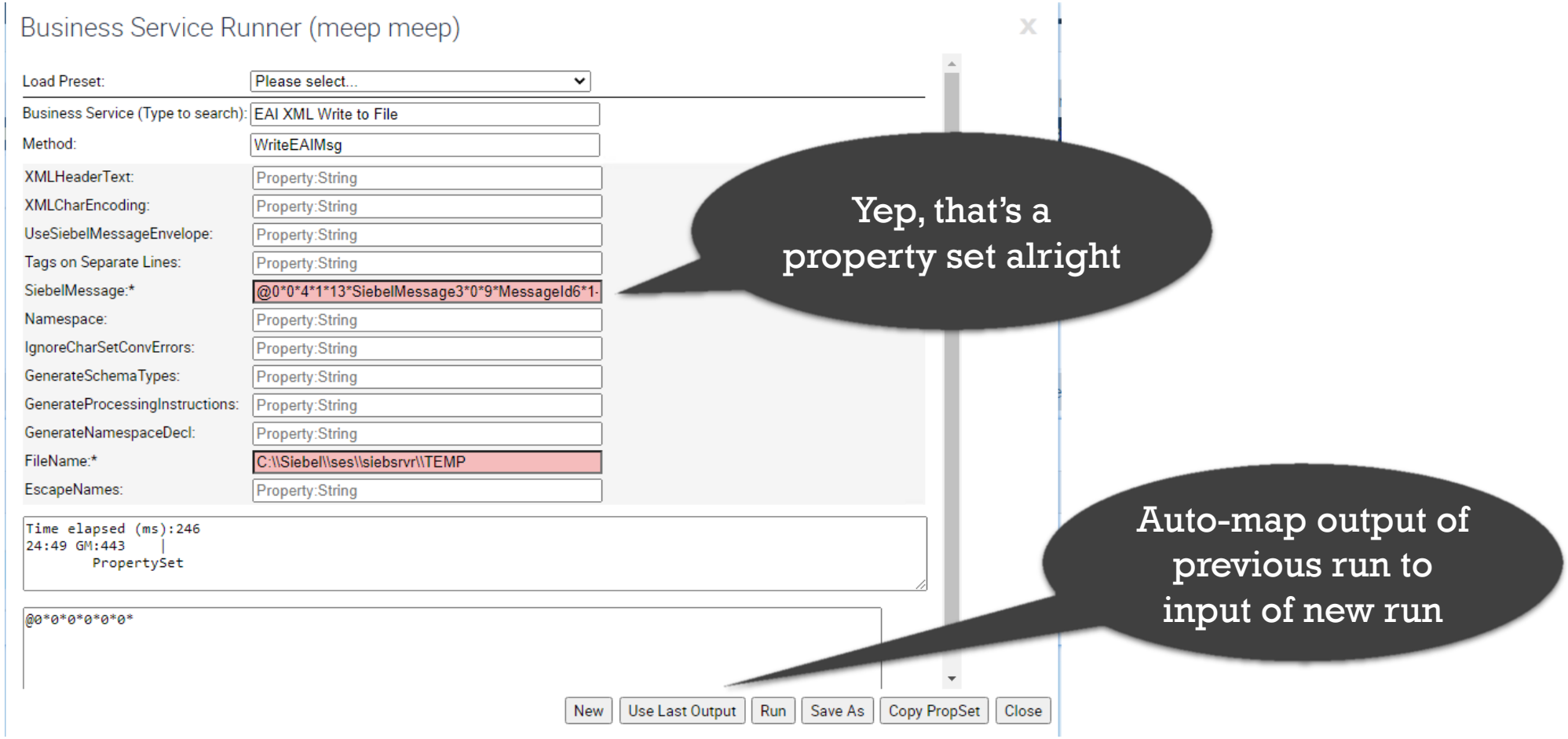



Delete current preset



# USE LAST OUTPUT

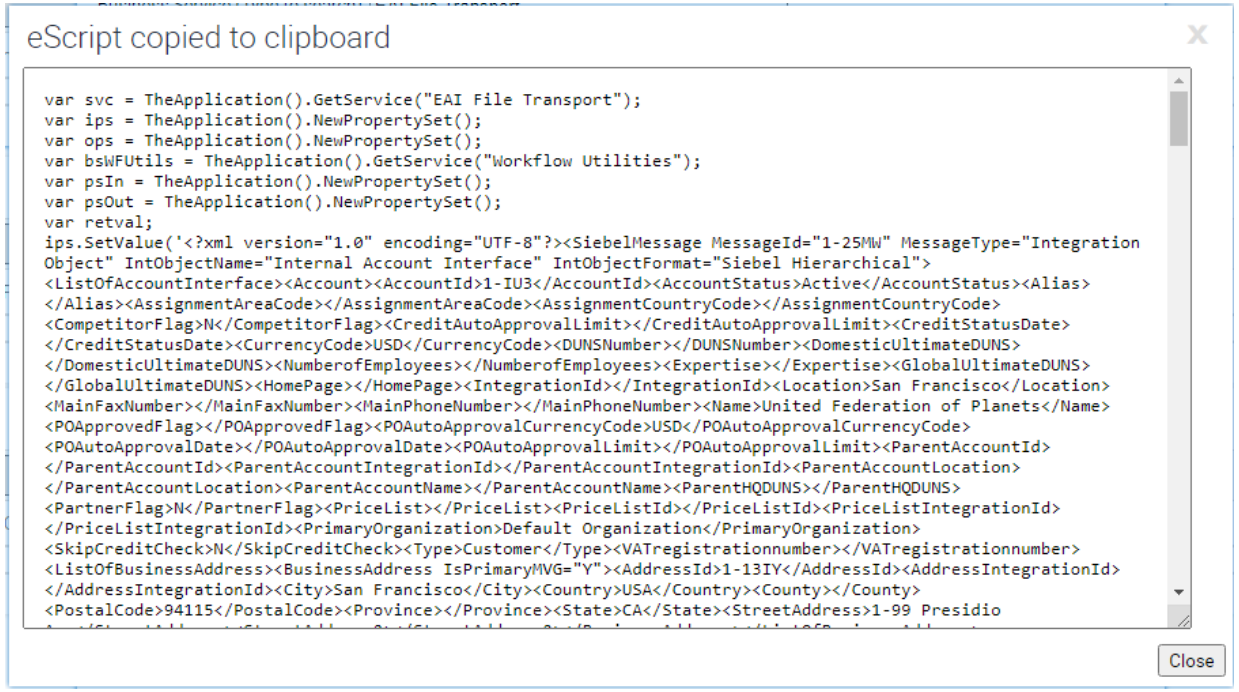


# CUSTOM PROPERTIES

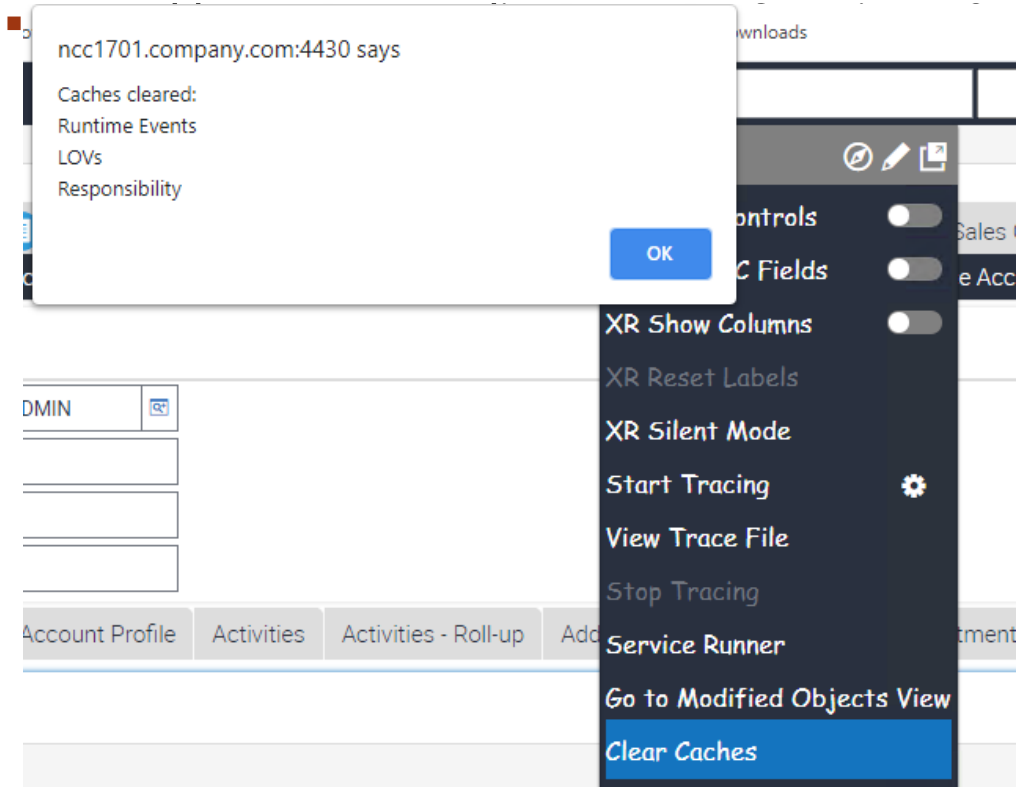
# COPY ESCRIPT / PS TO CLIPBOARD

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

Copy PropSet | Export eScript



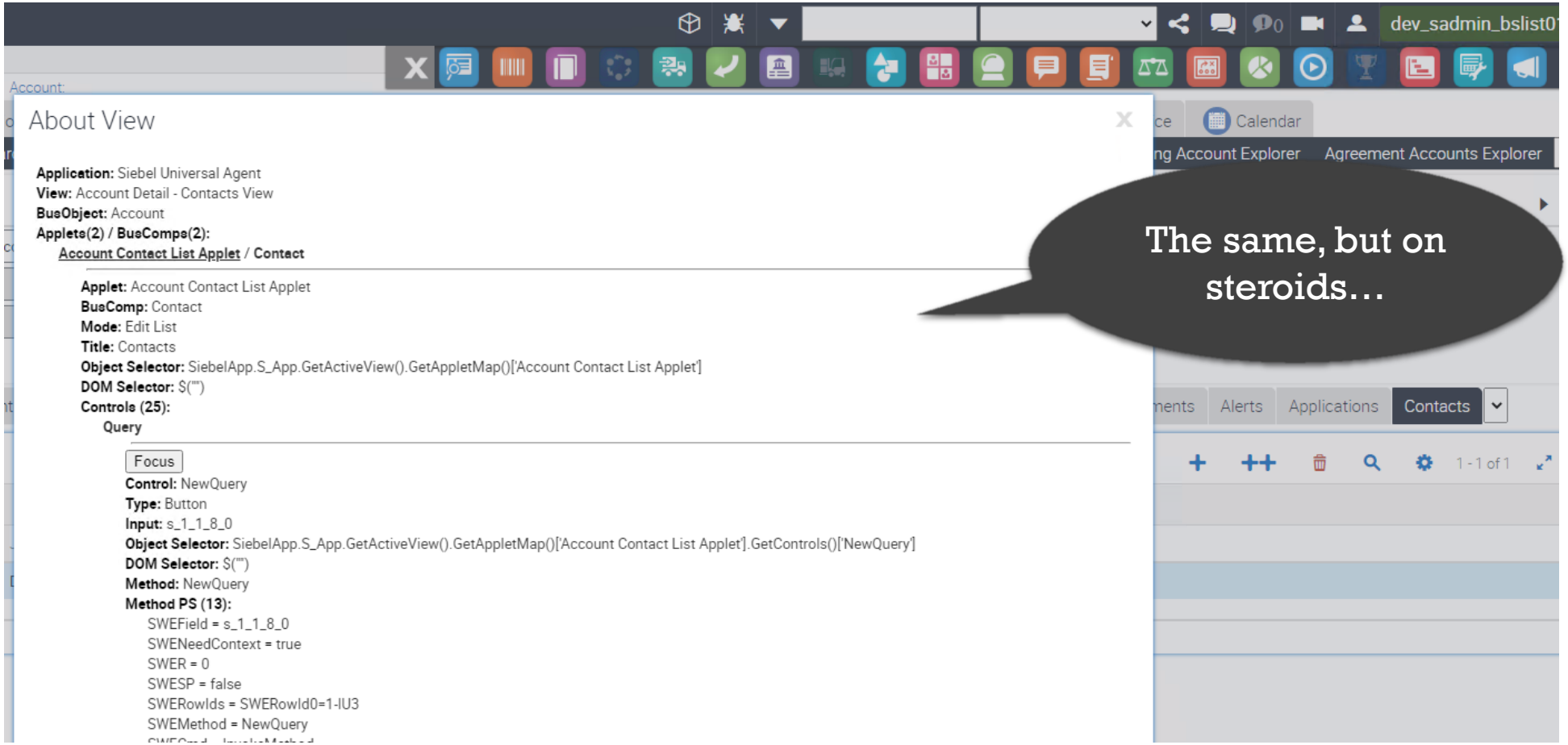
# CLEAR CACHES




No need to remember where that menu is.

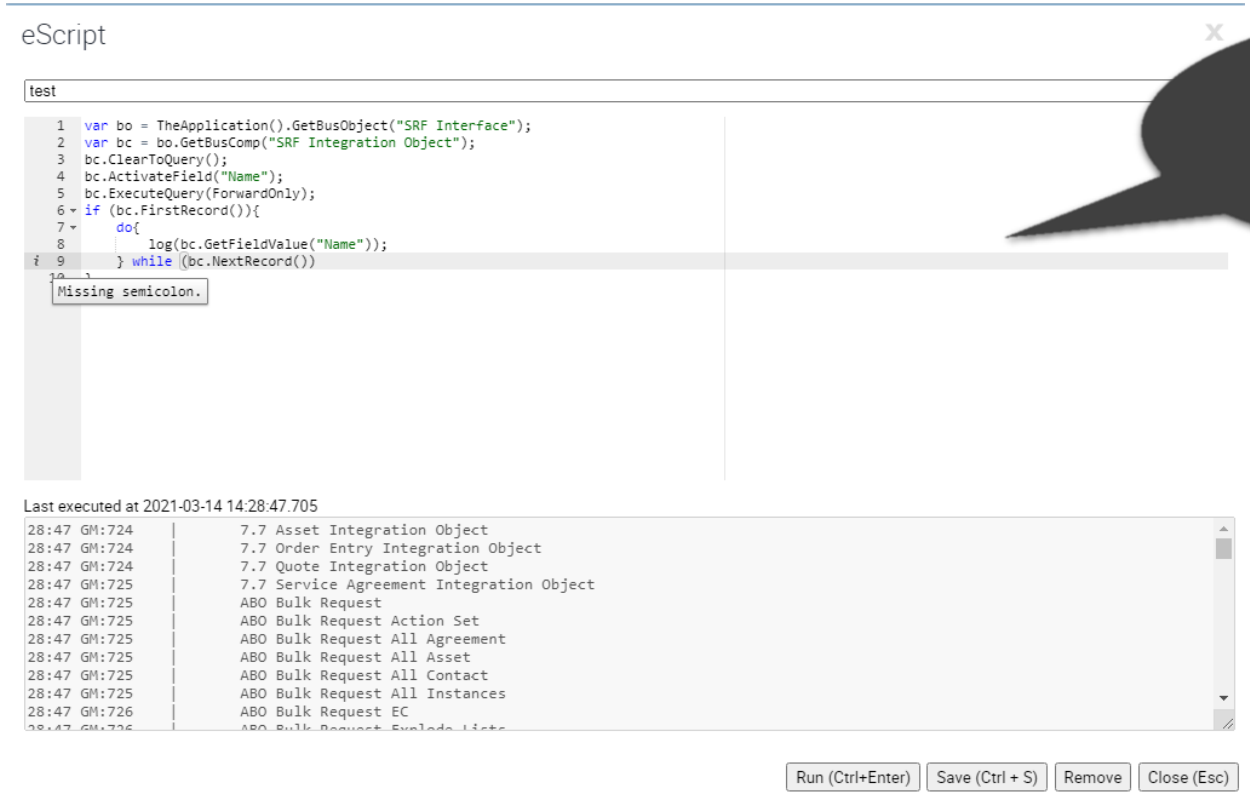
More: http://xapuk.com/index.php?topic=101

# ABOUT VIEW




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

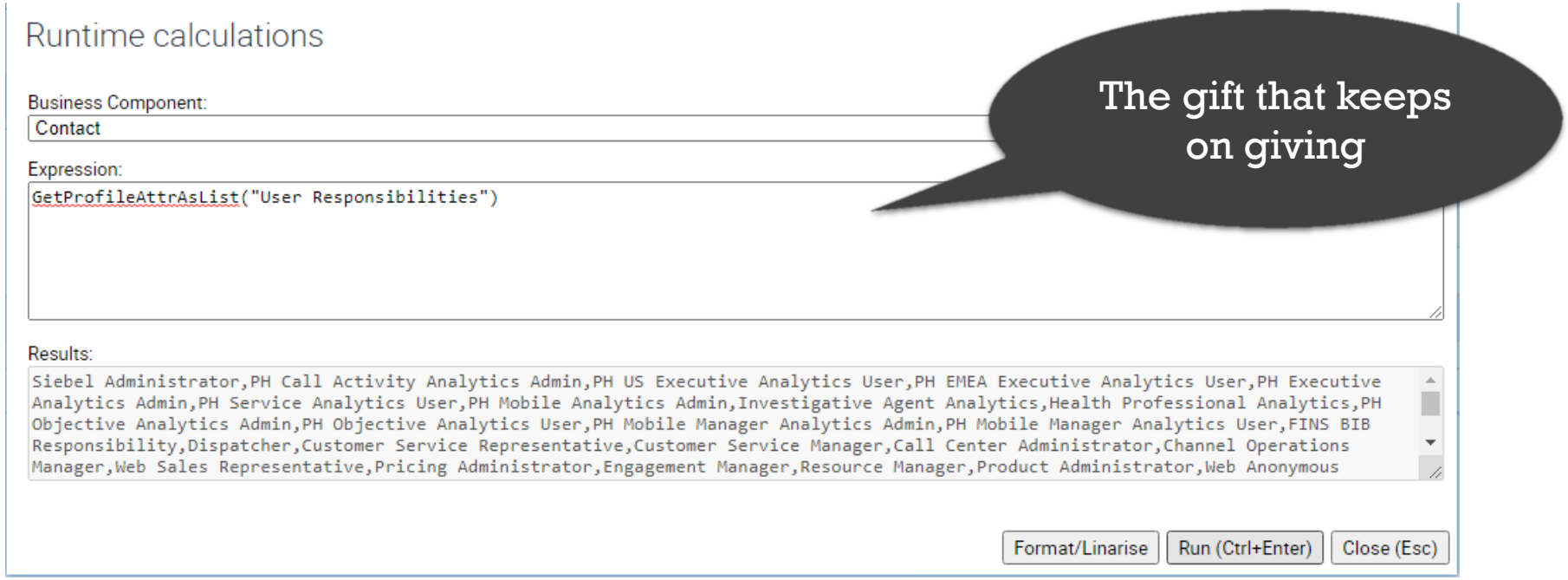
# ESCRIPT PLAYGROUND




We should have called it eFiddle ;-)

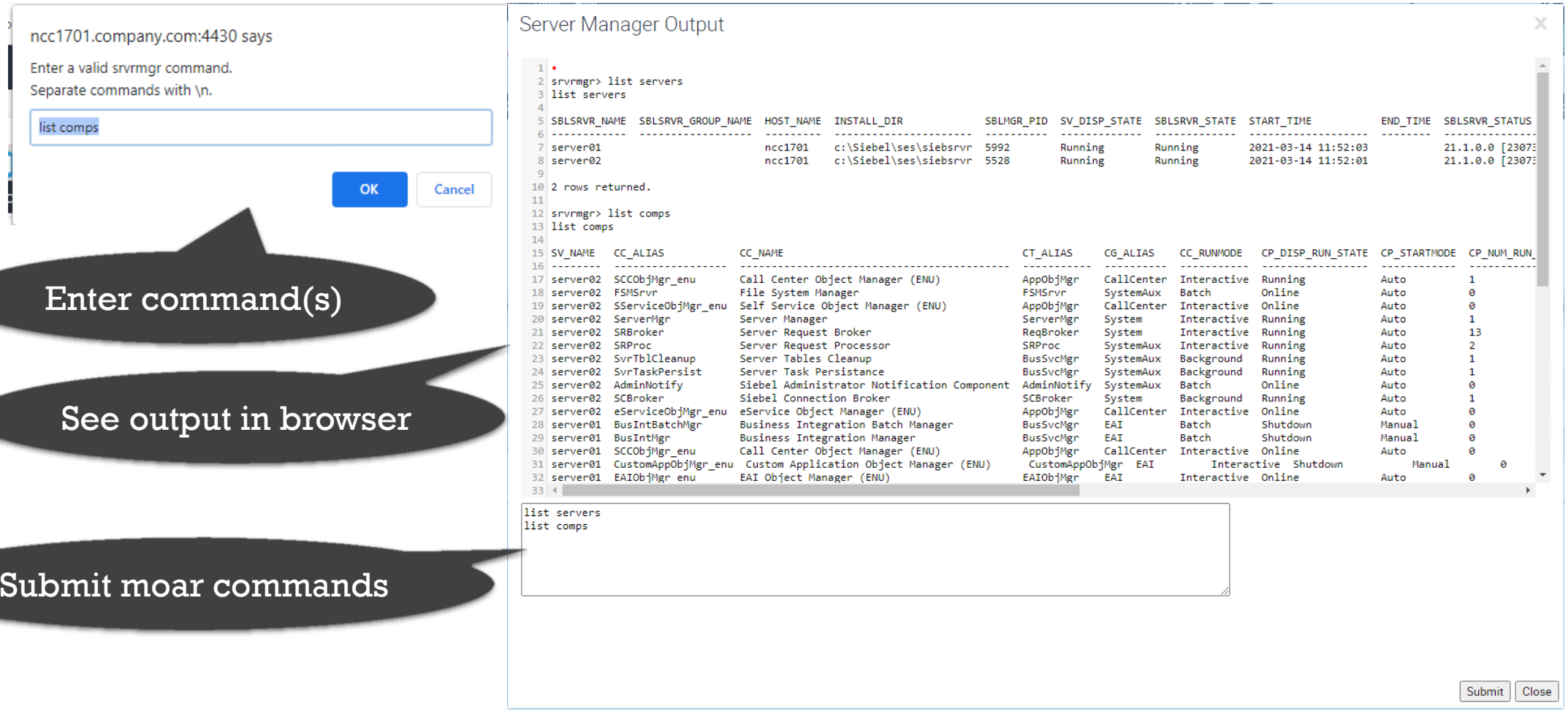
More: http://xapuk.com/index.php?topic=91

# EXPRESSION PLAYGROUND




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

# SERVER MANAGER

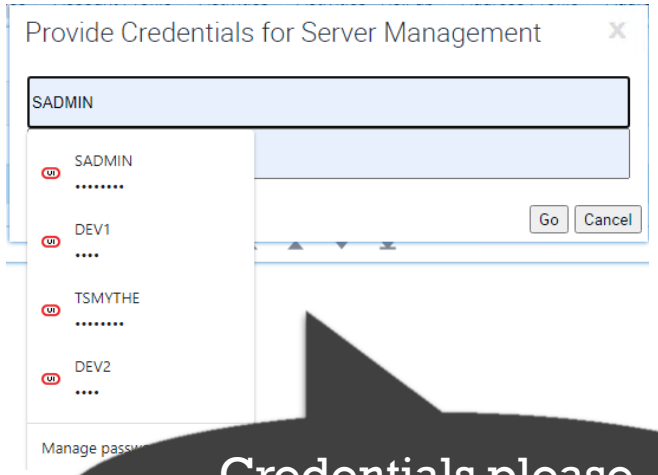



Enter command(s)

See output in browser

Submit moar commands

# SERVER STATUS




Credentials please, we're RESTing

Formatted output

Server Component Status

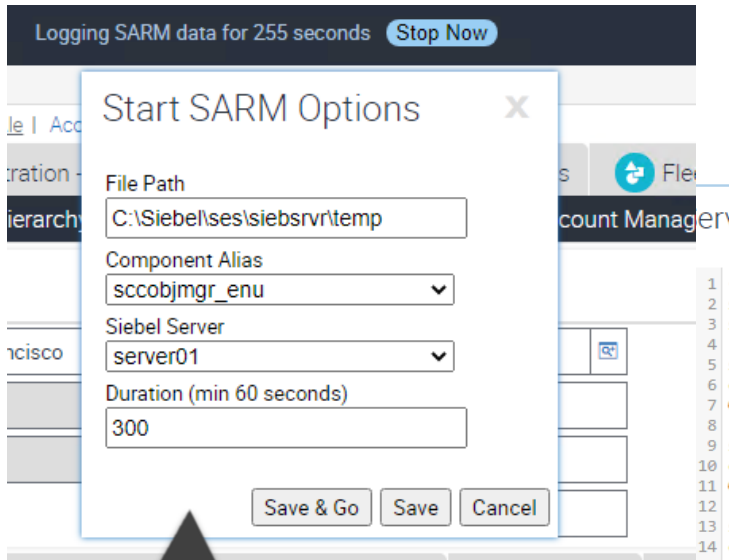
server01: Running

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 Persistance: 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)

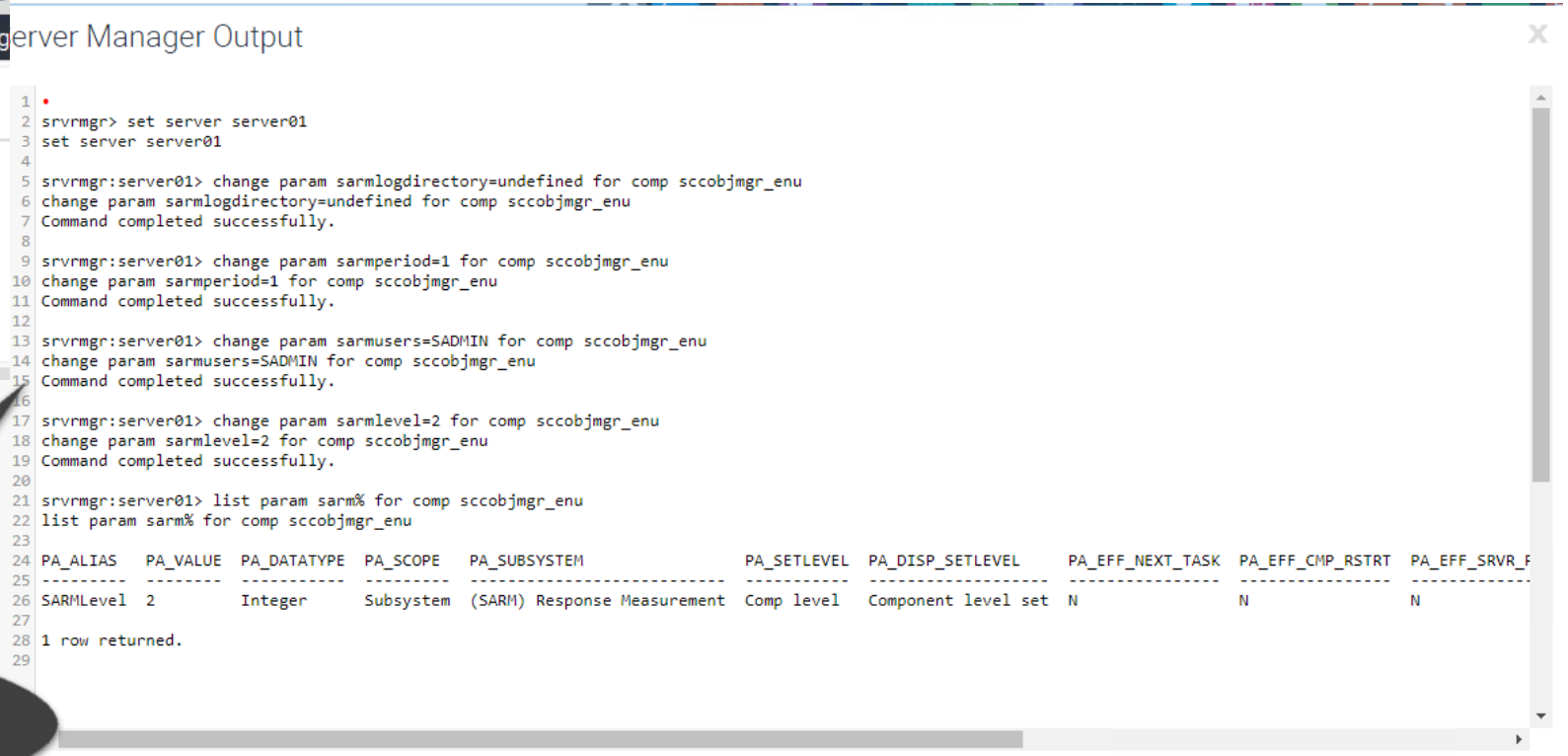
server02: Running

**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 Persistance: 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




Set options




SARM enabled for current user only

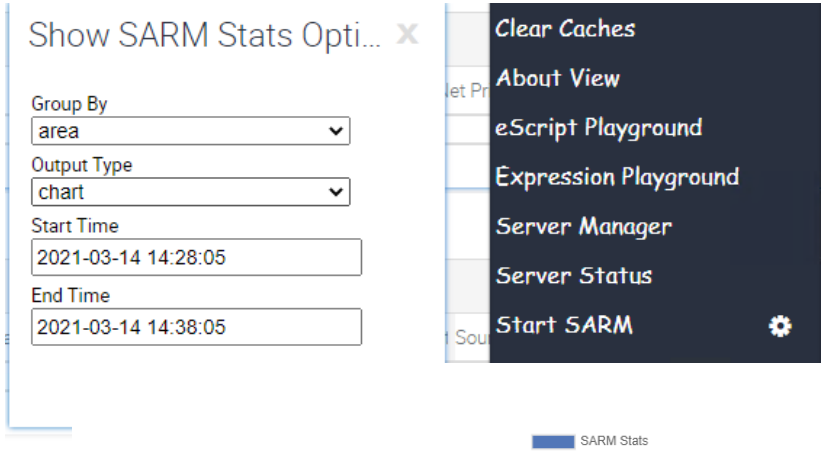
# STOP SARM

Server Manager Output

```
srvrmgr> delete parameter override for server server01 component sccobjmgr_enu param sarmperiod
delete parameter override for server server01 component sccobjmgr_enu param sarmperiod
Command completed successfully.

srvrmgr> delete parameter override for server server01 component sccobjmgr_enu param sarmlogdirectory
delete parameter override for server server01 component sccobjmgr_enu param sarmlogdirectory
Command completed successfully.

srvrmgr> delete parameter override for server server01 component sccobjmgr_enu param sarmusers
delete parameter override for server server01 component sccobjmgr_enu param sarmusers
Command completed successfully.

srvrmgr> delete parameter override for server server01 component sccobjmgr_enu param sarmlevel
delete parameter override for server server01 component sccobjmgr_enu param sarmlevel
Command completed successfully.

srvrmgr> list param sarm% for comp sccobjmgr_enu
list param sarm% for comp sccobjmgr_enu

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
---------  --------  -----------  ---------  --------------------------  -------------  ----------------  ----------------  ----------------  --------------
SARMLevel  0         Integer      Subsystem  (SARM) Response Measurement  Default value  Default value     N                 N                 N
SARMLevel  0         Integer      Subsystem  (SARM) Response Measurement  Default value  Default value     N                 N                 N

2 rows returned.

srvrmgr> list advanced param sarm% for comp sccobjmgr_enu
list advanced param sarm% for comp sccobjmgr_enu
```

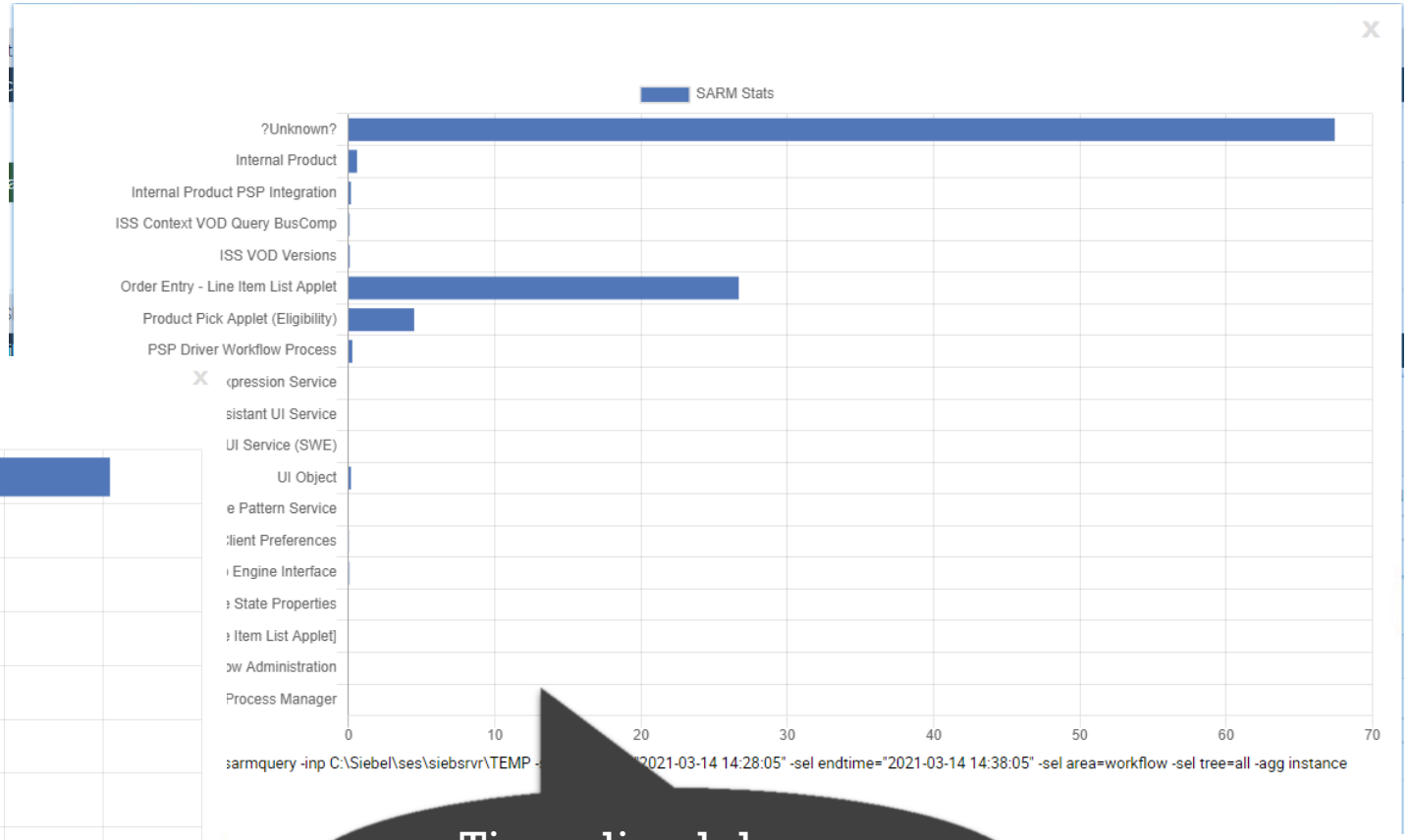
Delete Param Override

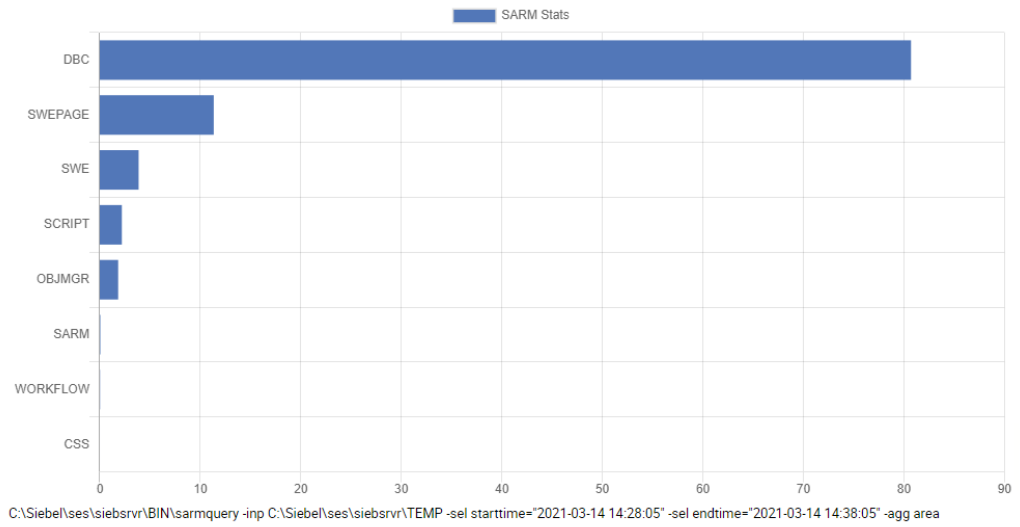
# SHOW SARM STATS





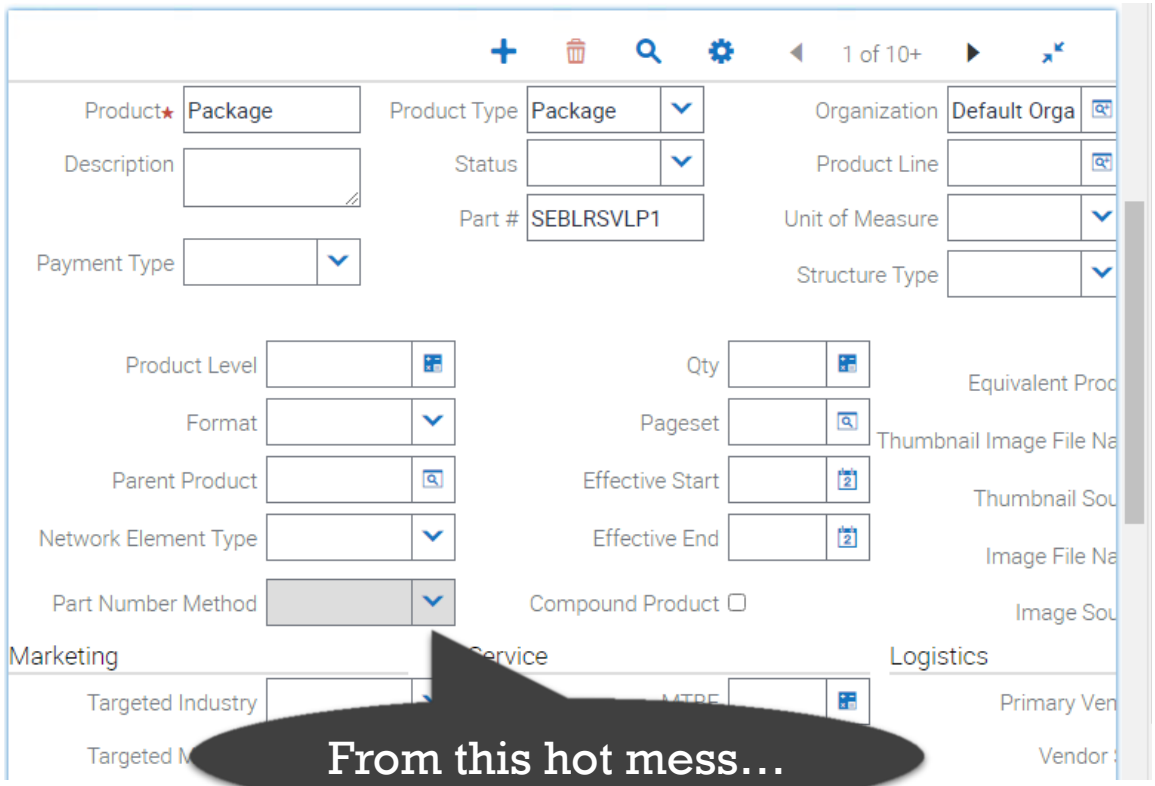


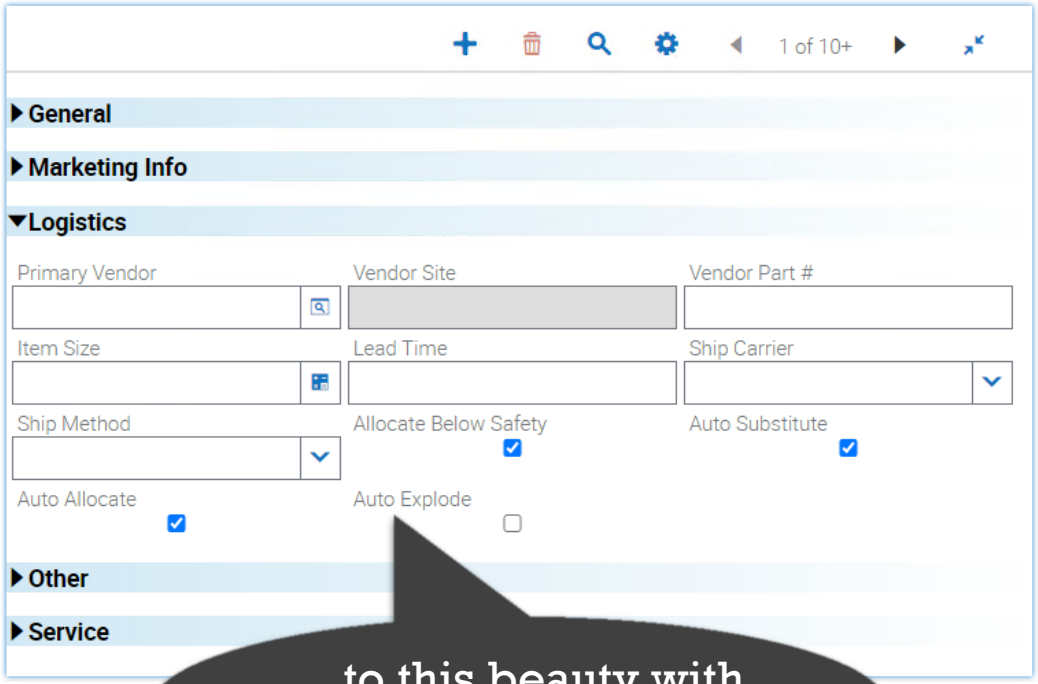


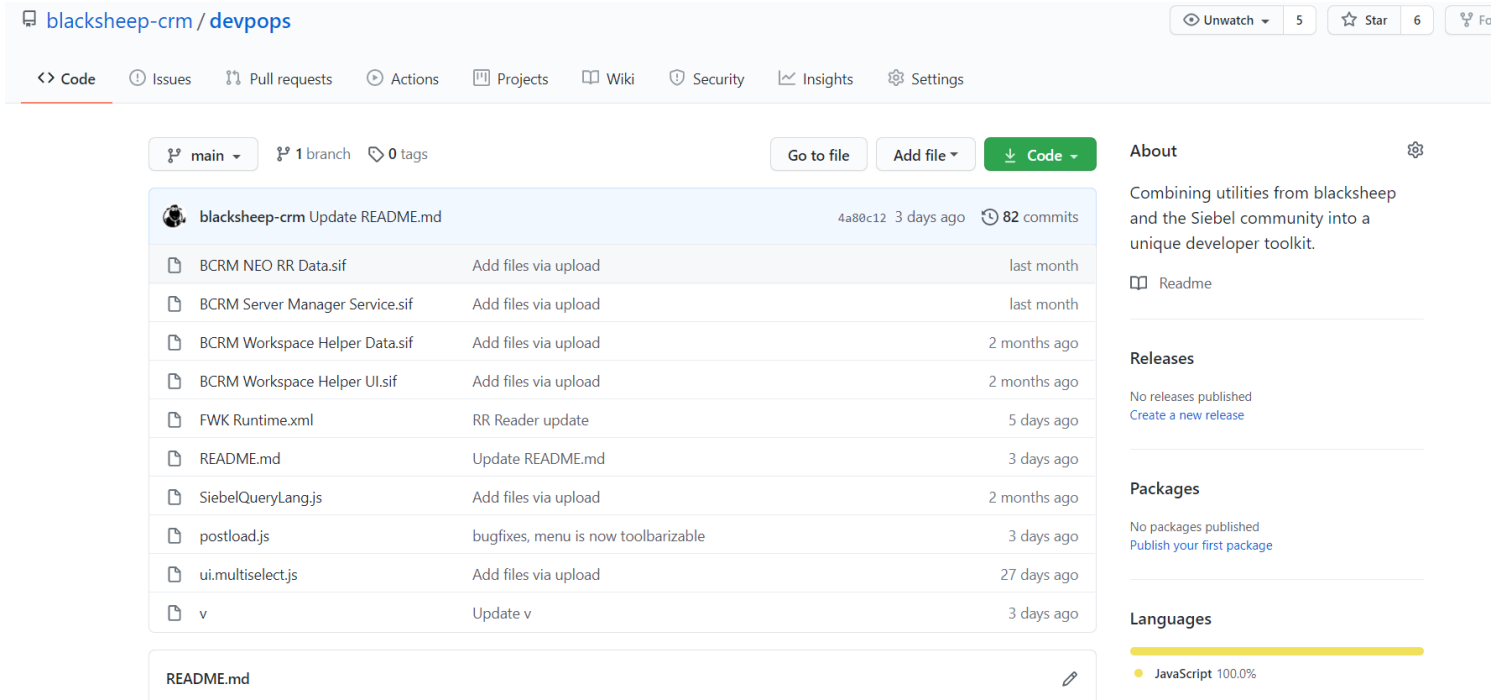




Time sliced demos available

# BREAK FREE DEMO



# GET IT ON GITHUB

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