

How to Deliver Information with SAP BO Explorer Accelerated Version



Applies to:

SAP NetWeaver BW 7.01

SAP NetWeaver BW Accelerator 7.20

BusinessObjects Enterprise XI 3.1

SAP BusinessObjects Explorer XI 3.2

Summary

SAP BusinessObjects Explorer software, accelerated version, combines intuitive information search and exploration functionality with the high performance and scalability of in-memory analytics, so you can empower your organization and extend the reach of BI to all of your business users.

This article is a general guide for junior BO Explorer developers and power business users to show how to configure and deploy information space on top of BWA.

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Author Bio

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Table of Contents

Introduction	3
System Preparation	3
BW Preparation	3
BusinessObjects Enterprise Preparation	5
Creation of Explorer-enabled Index	7
InfoProvider selection.....	7
Scenario A -- BW Accelerator Index for an InfoCube.....	7
Scenario B -- BW Accelerator Index for a MultiProvider	8
Scenario C -- BW Accelerator Index for a Query	8
User selection for authorization	9
Set unit conversion/restriction/hierarchies	9
BWA index maintenance.....	10
Configure the SAP authorization for BOE and Explorer	11
Configure SAP authorization for BOE.....	11
Create authorized SAP User for BO Explorer.....	13
Enable SAP authorization for BO Explorer	15
Operate Information Spaces and consume the data.....	17
Create information space through BWA provider	17
Select fields and schedule regular indexing job.....	18
Explorer the data in BWA memory.....	21
Related Content.....	22
Copyright.....	Error! Bookmark not defined.

Introduction

SAP BusinessObjects Explorer software, accelerated version, combines intuitive information search and exploration functionality with the high performance and scalability of in-memory analytics, so you can empower your organization and extend the reach of BI to all of your business users.

This article is a general guide for junior BO explorer developers and power business users to show how to configure and deploy information space on top of BWA.

System Preparation

In this guide, the software is:

- SAP NetWeaver BW 7.01 SP5
- SAP NetWeaver BW Accelerator 7.20
- BusinessObjects Enterprise XI 3.1 SP3
- BusinessObjects Integration Kit for SAP Solutions XI 3.1 SP3
- SAP BusinessObjects Explorer XI 3.2 SP2

BW Preparation

1. Check BWA connection and installation.

TCODE: TREXADMIN

TCODE: SM59

TREX Administration Tool (RFC Destination TREX_BIA)


Advanced Mode TREX ABAP Customizing

Services Summary Trace Ini Files Alert RFC Monitor Search Index Landscape Index Admin Queue Administration Version Topology

Reset Landscape... Restart Service Reconfigure Start missing services Kill Process Export load

active	Location	Services	Proces...	Server Info	CPU[...]	CPU[...]	CPU ...	Mem...	Mem...	Mem...	Me...	Start Time	Thre...	Hand...	Activ...	Finish...	Pend...	Resp...	Requ...
■	pekk201:30101	nameserver	405		0	2	■	450	1	6	■	2010-07-0:	21	42	0	19046:	0	5	0.64
■	pekk201:30103	indexserver	428		32	2	■	2,766	6	6	■	2010-07-0:	27	181	0	46961:	0	1	0.37
■	pekk201:30107	rfc server	570		0	2	■	548	1	6	■	2010-07-0:	55	90	0	19648:	0	0	0.23
■	pekk201:30111	other	569	alertserver	0	0	■	0		0	■		0		0	0	0	0	0
■	pekk202:30101	nameserver	26290		0	0	■	452	1	3	■	2010-07-0:	21	37	0	17328:	0	7	0.74
■	pekk202:30103	indexserver	26312		0	0	■	1,040	2	3	■	2010-07-0:	20	145	0	32662:	0	3	0.32
■	pekk202:30107	rfc server	26454		0	0	■	517	1	3	■	2010-07-0:	54	85	0	19467:	0	0	0.23
■	pekk202:30111	other	26453	alertserver	0	0	■	0		0	■		0		0	0	0	0	0
■	pekk203:30101	nameserver	14872		0	0	■	10,910	23	6	■	2010-06-30:	29	61	0	24297:	0	37	0.92
■	pekk203:30103	indexserver	14884		0	0	■	1,957	4	6	■	2010-06-30:	23	166	0	60287:	0	1	0.32
■	pekk203:30107	rfc server	14890		0	0	■	592	1	6	■	2010-06-30:	57	86	0	27543:	0	0	0.23
■	pekk203:30111	other	14889	alertserver	0	0	■	0		0	■		0		0	0	0	0	0

RFC Destination TREX_BIA

Connection Test Unicode Test 

Connection Test (Ctrl+F3)

Connection Type TCP/IP Connection Description

Description

Description 1

Description 2

Description 3

Administration Technical Settings Logon & Security MDMP & Unicode Special Options

Activation Type

Start on Application Server Registered Server Program

Start on Explicit Host

Start on Front-End Work Station

Registered Server Program

Program ID


2. Activate explorer enhancement function for BW.

TCODE: SE38

FUNTION NAME: RSDDTREX_ADMIN_MAINTAIN

Set the Parameter POLESTAR_SYSTEM to 2 via this program.

Maintain BIA Index Parameter



Maintenance of Table RSDDTREXADMIN:

OBJECT	<input type="text" value="POLESTAR_SYSTEM"/>
VALUE	<input type="text" value="2"/>

INSERT

UPDATE

DELETE

3. Check in SE16.

Data Browser: Table RSDDTREXADMIN Select Entries 14

OBJECT	VALUE
<input type="checkbox"/> BIAINITIALIZED	X
<input type="checkbox"/> BIAMONCHECK	X
<input type="checkbox"/> BIAMONCHECKJOBcnt	11232500
<input type="checkbox"/> POLESTAR_SYSTEM	2
<input type="checkbox"/> PS_DATFM	3
<input type="checkbox"/> PS_LANGU	E
<input type="checkbox"/> SINGLE_TABLE:20100707070528	
<input type="checkbox"/> SINGLE_TABLE:20100707070536	
<input type="checkbox"/> SINGLE_TABLE:20100707073239	
<input type="checkbox"/> SINGLE_TABLE:20100707080229	
<input type="checkbox"/> SINGLE_TABLE:20100708064507	
<input type="checkbox"/> SINGLE_TABLE:20100708064525	
<input type="checkbox"/> SINGLE_TABLE:20100708073001	
<input type="checkbox"/> SINGLE_TABLE:20100708083755	

BusinessObjects Enterprise Preparation

1. Click **Central Management Console (CMC) Home > Applications**.
2. Verify that Explorer XI has been installed.

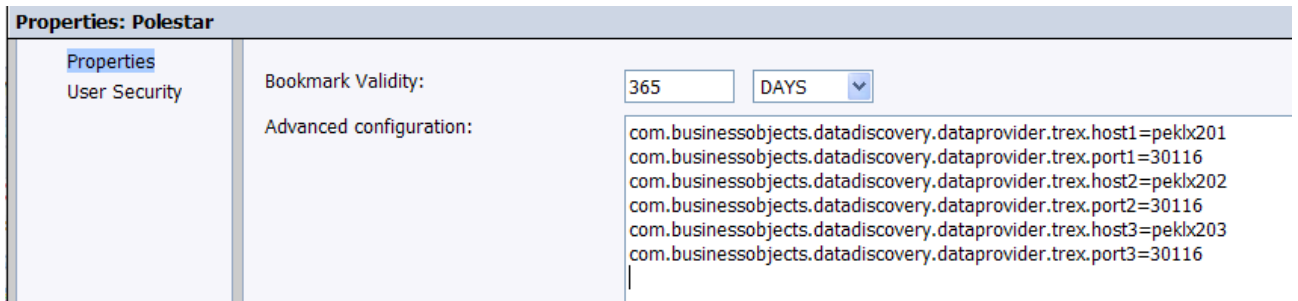
Applications Welcome: **Administrator** | H

Application Name	Description
BI Widgets	BI Widgets is an application that delivers business intelligence
CMC	
Content Search	Modify settings for the Content Search service in InfoView
Designer	Modify settings for the Designer application
Desktop Intelligence	Modify settings for the Desktop Intelligence Application
Discussions	
Encyclopedia	
InfoView	Modify settings for InfoView
LifeCycle Manager	Modify settings for LifeCycle Manager application
Performance Management	Modify settings for the Performance Management application
Explorer	Modify settings for Explorer
Report Conversion Tool	Modify settings for Report Conversion Tool Application
Strategy Builder	Modify settings for the Strategy Builder
Translation Manager	Modify settings for the Translation Manager
Web Intelligence	Modify settings for the Web Intelligence application

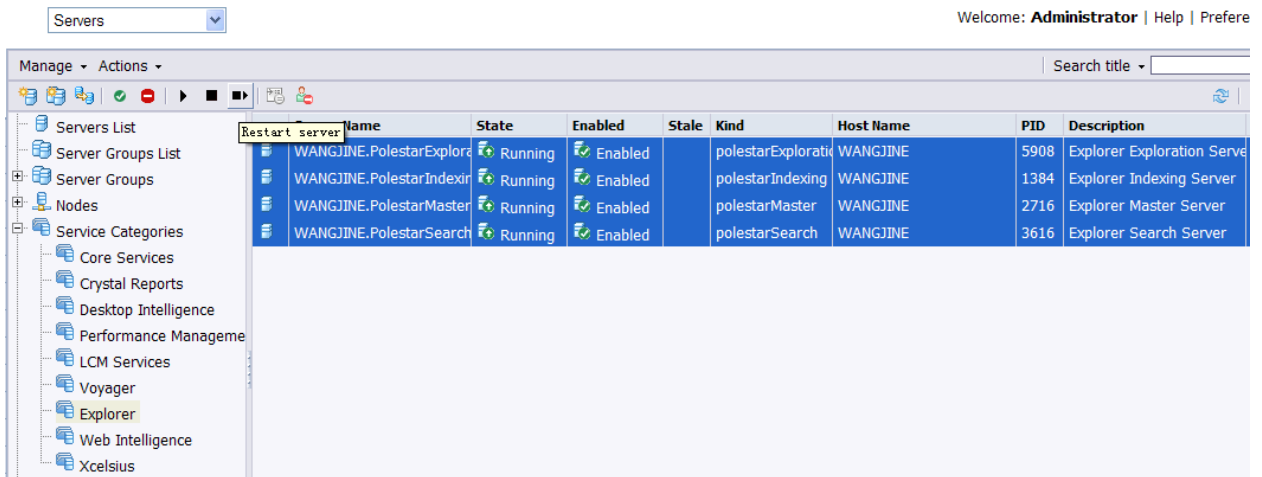
3. Select **Properties**.
4. Input Advanced configuration:

```
com.businessobjects.datadiscovery.dataprovider.trex.host=<bwaserver>
com.businessobjects.datadiscovery.dataprovider.trex.port=3<TREX_instance_number>16
```

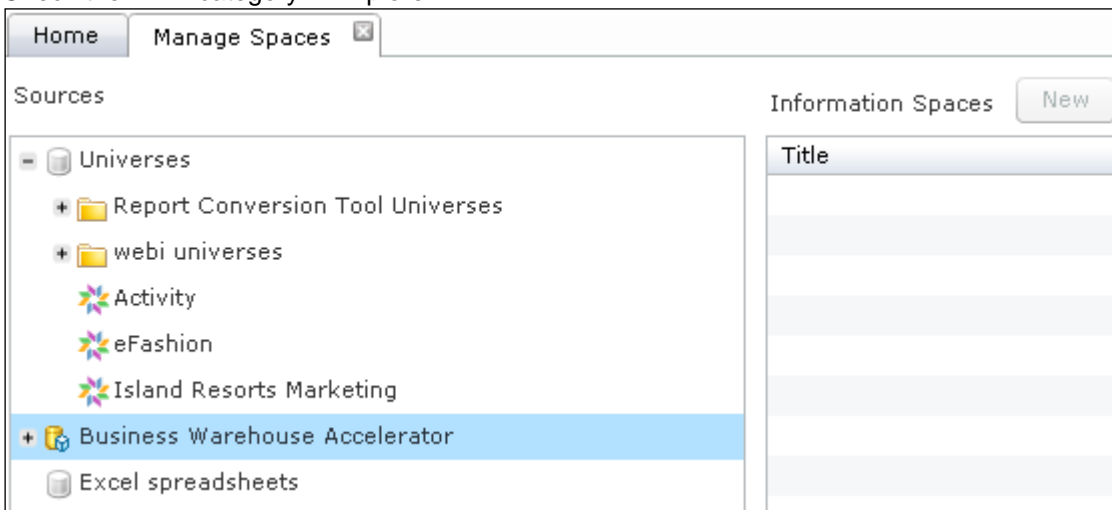
5. Click **Save > Close**.



6. Click **CMC Home > Servers**.
7. Restart Explorer services.



8. Check the BWA category in Explorer.

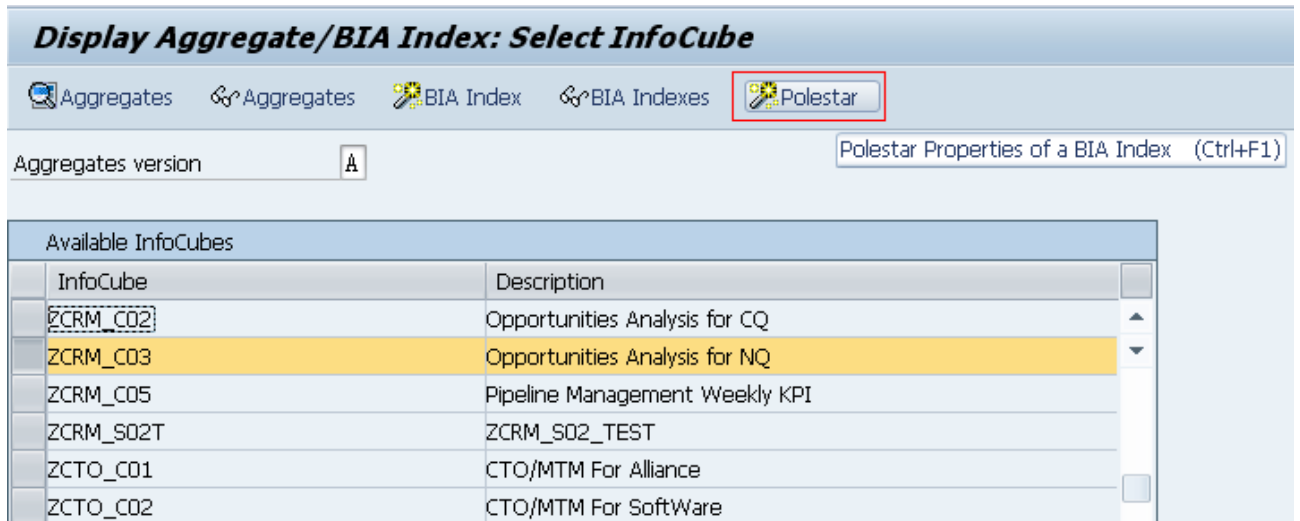


Creation of Explorer-enabled Index

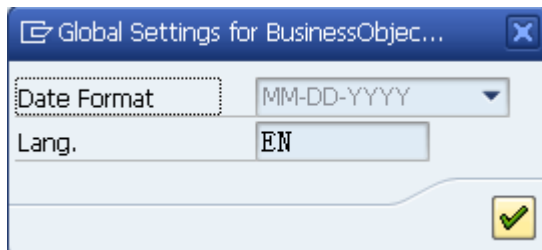
InfoProvider Selection

Scenario A -- BW Accelerator Index for an InfoCube

1. In BW system, TCODE: RSDDV.
2. Select an InfoProvider.
3. Click the **Polestar** button.



If this is the first time a Polestar provider is created, please set the **Date Format** and **Language**.



Scenario B -- BW Accelerator Index for a MultiProvider

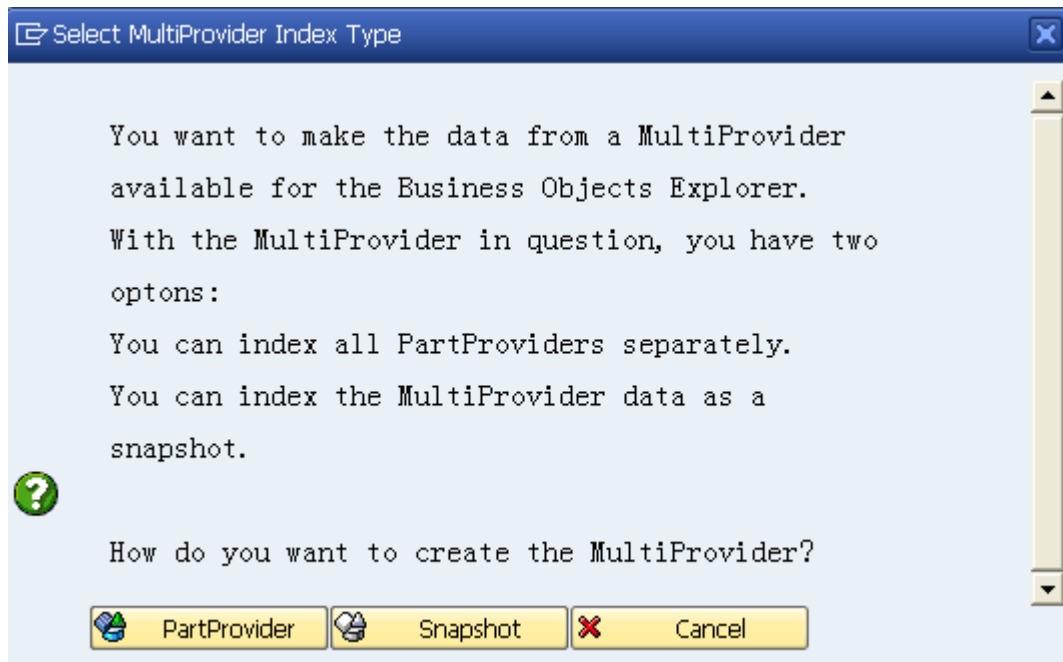
The following options are available:

- All InfoProviders in the MultiProvider can be indexed individually.

This option is only available for certain MultiProviders. A check routine in the BW system checks whether the BWA Engine allows this option for the MultiProvider in question. At present, this option can be used by all MultiProviders that only contain InfoCubes.

- You can index all MultiProvider data as a snapshot.

If the data in the InfoProviders contained in the MultiProvider changes, note that the system does not update the MultiProvider snapshot index.

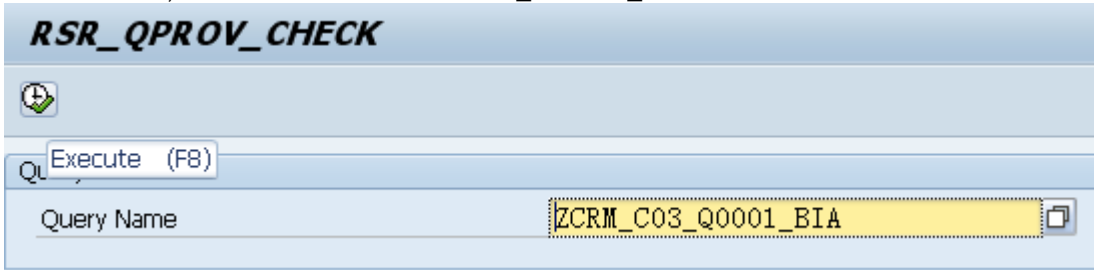


Scenario C -- BW Accelerator Index for a Query

Restrictions: A query result **cannot** be indexed if the query meets one of the following conditions:

- It is an input-ready query. An aggregation level is used as the InfoProvider.
- (SAP BusinessObjects Explorer does not support planning.)
- Input-ready variables are used in the query. (As indexing is carried out in the background, no entries can be made.)
- The query contains a temporary hierarchy join. (The result cannot be stored in a "flat" index.)
- The query contains more than one structure.
- Calculations in the query cannot be performed before aggregation.
- Local aggregation is used. (The query result in the OLAP Engine is not the same as the one that the user sees.)
- The technical name of the query is more than 20 letters long. An index ID is formed from the query name. There is a technical limitation for this.

TCODE:SE38, EXECUTE PROGRAM RSR_QPROV_CHECK



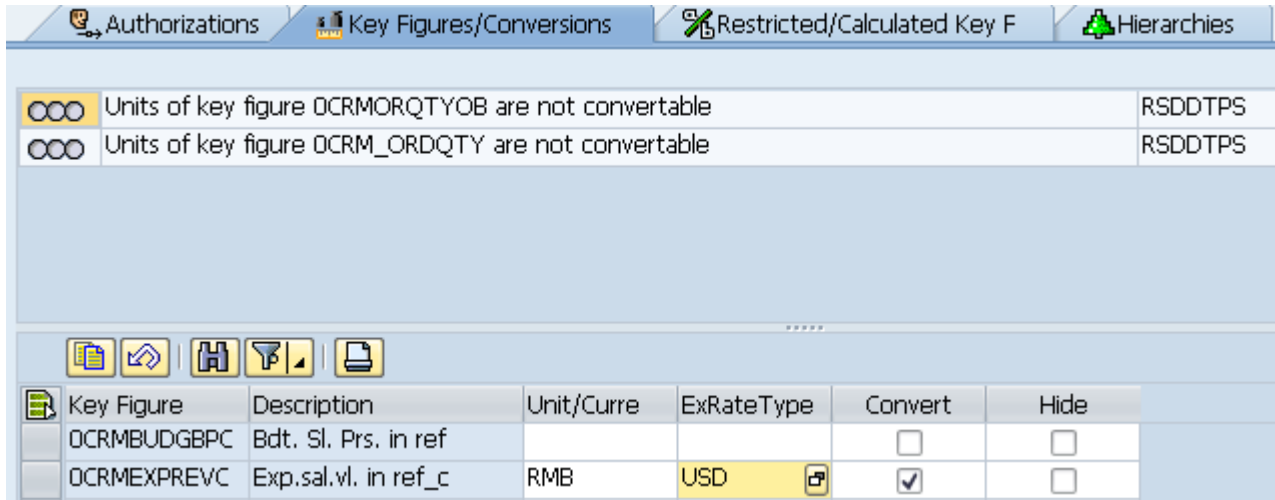
User selection for Authorization

TCODE:RSDTTPS

Add the user and related authorizations objects. Simply use 0BI_ALL. Otherwise, create a new object to control the authorization with specific requirement.



Set unit conversion/restriction/hierarchies



InfoObject	Hierarchy Name	Auswahl	Index Exists
OBP_CONTPER	ZEM_DMU_HIERARCHY	<input type="checkbox"/>	
OBP_CONTPER	ZEM_TEST	<input type="checkbox"/>	
OBP_RESPPER	ZEM_DMU_HIERARCHY	<input type="checkbox"/>	
OBP_RESPPER	ZEM_TEST	<input type="checkbox"/>	
OCRM_COMPET	ZEM_DMU_HIERARCHY	<input type="checkbox"/>	
OCRM_COMPET	ZEM_TEST	<input type="checkbox"/>	
OCRM_ENDCST	ZEM_DMU_HIERARCHY	<input type="checkbox"/>	
OCRM_ENDCST	ZEM_TEST	<input type="checkbox"/>	

Note: If the analysis authorizations for a user have changed, the ABAP program RSDDTPS_CREATE_AUTH need be performed.

BWA Index Maintenance

Activate the Provider. Meanwhile, the BWA Index will be created.

Edit Object: ZCRM_C03

Start Time

>>

Date/Time

Immediate start

After job

At operation mode

After event

Periodic job

Configure the SAP Authorization for BOE and Explorer

Configure SAP authorization for BOE

1. Connect BW system by clicking **BOE CMC Home > Authentication > double-click SAP** linkage.
2. Input the parameters of BW system. Make sure that you have 'PFCG' TCODE authorization in SAP system.

The screenshot shows the 'Entitlement Systems' configuration window in SAP BO Explorer. The window is titled 'Entitlement Systems' and has a 'Welcome' message in the top right corner. On the left, there is a navigation pane with a tree view showing 'Type Title' and 'Authentication' selected. The main area contains the following fields and controls:

- Logical system name:** A dropdown menu with 'BGQCLNT001' selected.
- System:** A text box containing 'BGQ'.
- Client:** A text box containing '001'.
- Disabled:** A checkbox that is currently unchecked.
- Load balancing:** A section with two columns: 'Message Server' (empty text box) and 'Logon Group' (empty text box).
- Application host:** A section with two columns: 'Application Server' (text box containing '10.96.13.17') and 'System Number' (text box containing '01').
- Username:** A text box containing 'bas-wangpeng'.
- Password:** A text box with masked characters (dots).
- Language:** A text box containing 'en'.
- Buttons:** Three buttons labeled 'New', 'Delete', and 'Update' are located at the bottom of the form.

3. Import SAP role.

Role Import

Entitlement Systems | Role Import | SNC Settings | Options

Logical system name: BGQCLNT001

Available roles

- /PSYNG/ER_ROLE_ASSIGNMENTS
- /PSYNG/SW_DISPLAY
- /PSYNG/SW_ER_ADMINISTRATOR
- /PSYNG/SW_ER_USER
- FOR-CN10011S
- FOR-HUJIAN
- NORMAL
- PFCG
- SAP_BC_AUTH_PROFILE_ADMIN
- SAP_BC_BMT_WFM_UWL_END_USER
- SAP_BC_DB_ADMIN
- SAP_BC_DWB_ABAPDEVELOPER

Imported roles

- ZLENOVO_DEBUG

Buttons: Search, Manually Add >, Add >, Add All >, < Remove, < Remove All, Update

4. Click **Option** tab.

Options

Entitlement Systems | Role Import | SNC Settings | Options

Enable SAP Authentication Default system: BGQCLNT001

Max failed entitlement system accesses: -1 Keep entitlement system disabled [seconds]: 0

Max concurrent connections per system: 10 Number of uses per connection: 5

Automatically import users

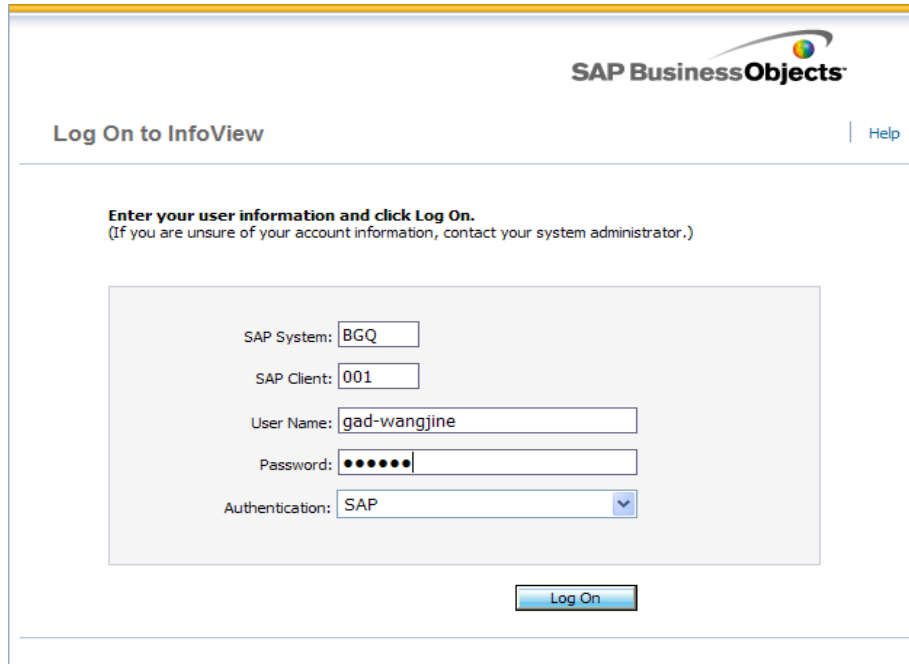
- Concurrent users
- Named users

Force user synchronization Content folder root: /SAP/2.0/

Update

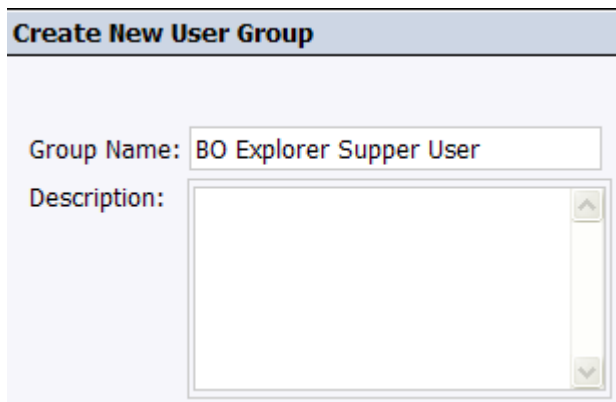
Create authorized SAP User for BO Explorer

Use one **BW user** with the role which has been import into BOE to logon BOE system.



The screenshot shows the SAP BusinessObjects 'Log On to InfoView' interface. At the top right is the SAP BusinessObjects logo. Below it, the text 'Log On to InfoView' is displayed on the left, and a 'Help' link is on the right. The main area contains the instruction: 'Enter your user information and click Log On. (If you are unsure of your account information, contact your system administrator.)'. Below this is a form with the following fields: 'SAP System:' with the value 'BGQ', 'SAP Client:' with the value '001', 'User Name:' with the value 'gad-wangjine', 'Password:' with masked characters '••••••', and 'Authentication:' with a dropdown menu set to 'SAP'. A 'Log On' button is located at the bottom center of the form area.

1. Logon CMC as administrator. Assign the **BW user** the access right to Explorer.
2. Create new user group.



The screenshot shows the 'Create New User Group' dialog box. The title bar reads 'Create New User Group'. The 'Group Name:' field contains the text 'BO Explorer Supper User'. The 'Description:' field is a large, empty text area with a vertical scrollbar on the right side.

3. Create new access level.

Loading...

Title:

Description:

4. Include rights.

Included Rights: full control of BO explorer

	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▼ Specific Rights for Explorer					
Explore Information Spaces	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explore Information Spaces: Export to Bookmark/Email	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explore Information Spaces: Export to CSV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explore Information Spaces: Export to Image	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explore Information Spaces: Export to Web Intelligence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explore Information Spaces: share uploaded data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manage Information Spaces	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manage Information Spaces: Create a new Space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manage Information Spaces: Launch indexing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manage Information Spaces: Modify a Space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manage Information Spaces: Schedule indexing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manage Information Spaces: upload external files	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
► General Rights for Explorer					

5. Assign the access level to user group. Assign the BW user to the user group.

Assign Security

Object: full control of BO explorer
Principal: BO Explorer Supper User

Inheritance: Inherit From Parent Folder Inherit From Parent Group

Access Levels | **Advanced**

Available Access Levels		Assigned Access Levels	
Title	Description	Title	Description
Full Control	Grants full access		
full control of BO explorer		full control of BO explorer	
Schedule	Grants view rights for objects, view-on-demand con		
View	Grants view rights for objects		
View On Demand	Grants view rights for objects, and view-on-demand co		
View Root			

Enable SAP Authorization for BO Explorer

1. Search the **default.settings.properties** file under the installation folder of BOE. The default location is Business Objects\Tomcat55\webapps\polestar\WEB-INF\classes.

Setting	Description	Example values for SAP Authentication
default.sapsystem.name	The name of the SAP_ID SAP system.	SAP_ID
show.sapsystem.name	Determines if the SAP system name is shown within the Log On page.	true
disable.sapsystem.name	Disables the SAP system name text box within the Log On page. You cannot change the textbox value.	false
default.sapclient.name	Determines if the SAP client ID 100 show.sapclient.name Determines if the false true SAP client name is shown within the Explorer Log On page.	true
disable.sapclient.name	Disables the SAP client name textbox within the Log On page. You cannot change the textbox value.	false
default.authentication.method	The default log on authentication to use. The value is selected in the Authentication list of the Explorer Log On page.	secSAPR3
authentication.s	The values that populate the Authentication list.	secEnterprise,secWinAD,secLDAP,secSAPR3

2. Change the parameters in the property file, and add SAP authorization control method.
3. Save file.

4. Restart Tomcat.

Connecting to SAP BusinessObjects Explorer

Language:

System: *

SAP System ID: *

SAP Client ID: *

Username: *

Password:

Authentication:

5. Logon BO Explorer and check authorization.

Welcome: [BGQ~001/GAD-WANGJINE](#) [Manage Spaces](#)

Home Manage Spaces

Sources

- Universes
 - Report Conversion Tool Universes
 - webi universes
 - Activity
 - eFashion
 - Island Resorts Marketing
 - Business Warehouse Accelerator
 - Excel spreadsheets

Information Spaces

Title

Operate Information Spaces and Consume the Data

Create Information Space Through BWA Provider

Select one InfoProvider, and click **New**.

The screenshot shows the SAP BO Explorer interface. At the top, there are two tabs: 'Home' and 'Manage Spaces'. Below the tabs, there are two main sections: 'Sources' and 'Information Spaces'.

The 'Sources' section contains a tree view of universes. The 'Business Warehouse Accelerator' folder is expanded, and the 'CRM Contract (bgq_zr_sfc01_ps)' universe is selected and highlighted in blue. Other universes listed include 'Report Conversion Tool Universes', 'webi universes', 'Activity', 'eFashion', 'Island Resorts Marketing', 'CRM Contract (bgq_zr_sfm01_ps)', 'Opportunities Analysis for NQ (bgq_zcrm_c03_ps)', 'Predictive Pipeline BIA Test (bgq_q\$qzcrm_c03_q0001)', 'TestCubeForBWA (bgq_zdc012_ps)', and 'zdstest (0ds:zdstest:cube)'.

The 'Information Spaces' section contains a table with a 'Title' column. A yellow tooltip is displayed over the table, stating: 'Create a new Information Space on the selected data source.' A 'New' button is located above the table.

Select fields and Schedule Regular Indexing Job

1. Click the **Properties** tab. Enter the appropriate data in **Name** and **Keywords** fields.
2. Select folder.

Create Information Space on: CRM Contract (bgq_zr_sfc01_ps)

Properties | Objects | Scheduling | Personalization

Name * CRM Contract

Description

Keywords contract

Availability Show on Home page

Folder Favorites

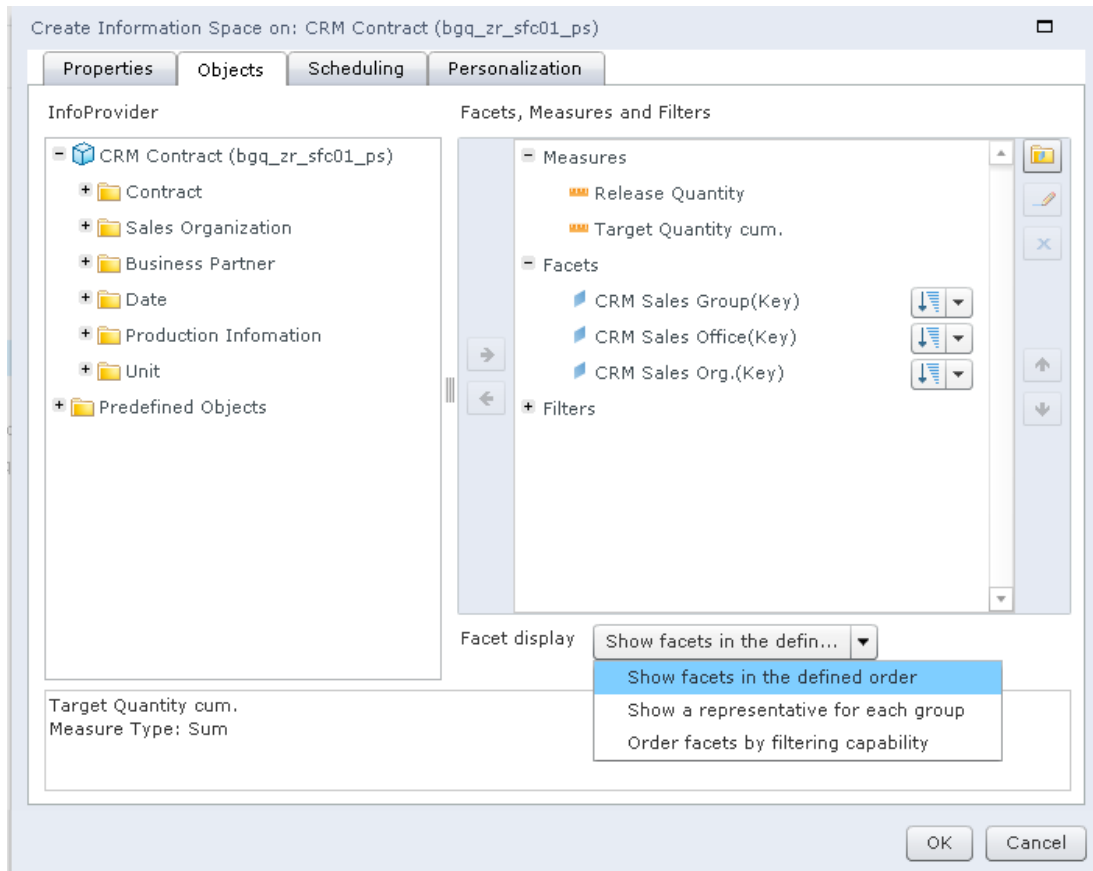
Status

InfoProvider Name CRM Contract (bgq_zr_sfc01_p:

InfoProvider Description

OK Cancel

3. Click the **Objects** tab. Select **Facets, Measures and Filters**.



- Click the **Scheduling** tab. Select schedule time window.

Create Information Space on: CRM Contract (bgq_zr_sfc01_ps)

Properties Objects **Scheduling** Personalization

Scheduling Mode

Once
 Periodically
 None

Run Every

Minute(s)
 Hour(s)
 Day(s)
 Week(s)

Scheduling Details

Account to Run Scheduling *

Password

Confirm Password

Scheduling Time Range

Start Date At: :

End Date At: :

OK Cancel

- Click the **Index** button or waiting scheduling.

Information Spaces

Title	Status	Action
<ul style="list-style-type: none"> CRM Contract 		

Index Now

Explorer the data in BWA memory

1. In Explorer home page, input key words. Click the **Search** button.

The screenshot shows the SAP BO Explorer search interface. At the top, there are tabs for 'Home', 'Manage Spaces', and 'Search Results: contract'. A search input field contains the word 'contract' and a 'Search' button is to its right. Below the search bar, the text 'Search Results: Information Spaces:' is displayed. A table shows '1 Result(s)' with a score of 1. The result is 'CRM Contract', which is expanded to show several filters: 'Target Quantity cum.', 'Release Quantity', 'CRM Sales Group(Key)', 'CRM Sales Org.(Key)', and 'CRM Sales Office(Key)'. Below the filters, the following information is provided: Indexing Date: 2010/07/15 12:11, Folder: My Folders/Favorites, Owner: BGQ~001/GAD-WANGJINE, and InfoProvider: CRM Contract (bgq_zr_sfc01_ps).

2. Click the **space name** and open it.

The screenshot shows the SAP BO Explorer data view for 'CRM Contract'. The top navigation bar includes 'Home', 'Manage Spaces', 'Search Results: contract', and 'Explore: CRM Contract'. Below this, there are tabs for 'contract' and 'Refreshed on: 2010/07/15 12:16 Records 14'. The main area is divided into three columns: 'CRM Sales Group(Key)', 'CRM Sales Office(Key)', and 'CRM Sales Org.(Key)'. The 'CRM Sales Group(Key)' column shows a total of 4,015,198.00. The 'CRM Sales Office(Key)' and 'CRM Sales Org.(Key)' columns show totals of 3,748,129.00. Below the columns, there is a table with 12 rows of data, including a 'Total (12)' row. The table has columns for 'CRM Sales Org.(Key)' and 'Release Quantity'. A bar chart is displayed below the table, showing the 'Release Quantity' for each 'CRM Sales Org.(Key)'. The chart has a y-axis ranging from 0.00 to 4,000,000.00 and an x-axis with 12 categories. A legend on the right indicates that the blue bars represent 'Release Quantity'. The total value for 'Release Quantity' is 4,015,198.00.

CRM Sales Org.(Key)	Release Quantity
#	3,748,129.00
50000017	68,576.00
90000003	66,385.00
50000015	55,784.00
50000011	20,419.00
50000010	14,166.00
50000006	10,275.00
50000019	8,970.00
50000018	6,137.00
Total (12)	4,015,198.00

Related Content

[SAP NetWeaver BW Accelerator & SAP BusinessObjects Explorer Overview](#)

[How to configure SAP BusinessObjects Explorer on top of SAP NetWeaver BW Accelerator](#)

[SAP BusinessObjects Solution Portfolio Knowledge Center](#)

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