SAP Business Objects Analysis for MS Office Authorization Strategy

Version: Final

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1 SAP BusinessObjects Analysis Authentication and Authorization

- ➤ **Authorization** is the process of verifying the user has sufficient rights to perform the requested action upon a given objects.
- > Action means to view, refresh, edit, schedule, etc.
- **Object** means: folder, report, instance, universe, etc.
- > Authorization is handled based on how the "access level", "application security", and "content security" such as users and groups, universe security, folder access, etc. are defined using CMC.

SAP BusinessObjects Authorization works differently but in conjunction with SAP BW Authorization model.

SAP NetWeaver BW	SAP BusinessObjects Enterprise	Comment
Authorization Objects	Rights	Individual actions and activities that can be performed for an object
Profiles	Access Levels	A collection of activities and actions
Analysis Authorizations	Profiles	Controls access to specific dataslices E.g., Country = USA
Worksets	Folders	A collection of objects, reports, and documents
Roles	Groups	A collections of users who share the same account privileges. Both SAP and SAP BusinessObjects support a hierarchy of roles or groups.

1.1 User types

User Type	Task	Access Requirement
BEX Query Developer Business Objects Analysis Report Developers	 Develop the source queries using SAP BW-BEX. Develop the reports in SAP BusinessObjects Analysis for excel. 	In order to develop a report in SAP BusinessObjects Analysis for excel; A BW-BEX report needs to be accessed from SAP BW and make it as data source for SAP BusinessObjects Analysis report. SAP BusinessObjects Analysis report need to be created, formatted using excel add-in and then be saved into a server folder.
Report Users	Use the reports from SAP BusinessObjects Analysis for excel	Copy Report from the application folder in BusinessObjects into own

		personal folder and execute reports for one or more application areas.
Power Users	Develop & Execute reports in SAP BusinessObjects Analysis for excel.	 Execute reports from one or more application areas directly from the application folders in Business Objects. Schedule report Create other SAP Business Objects Analysis reports.

1.2 Broad Category of Tasks in Business Objects Analysis

Tasks	Controlled by Authorization				
SAP BW Report Development & Sourcing	Controlled by SAP BW Authorization/Role				
from Business Objects platform.	Assignment				
SAP Business Object Analysis for Excel	Controlled by SAP BusinessObjects Authorization				
Report Development, Execution &	Assignment				
Scheduling.					

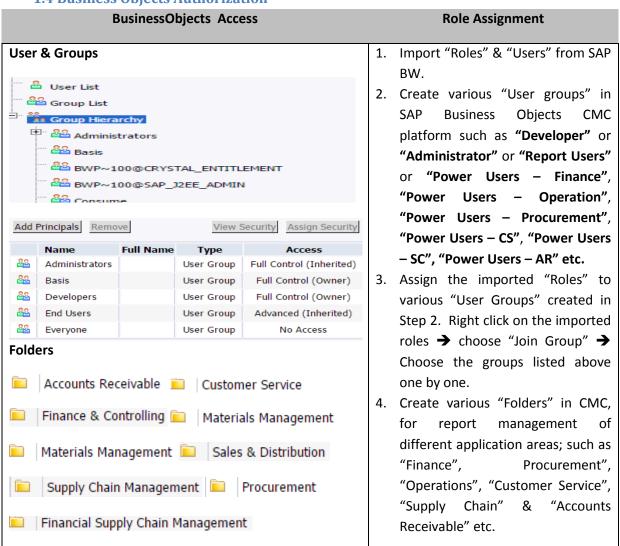
1.3 BW Authorization

1.3 BW Authorization							
BW Functiona		Role Assignment					
Single vale	Dolo name	1 4	M/a baya ayaatad				
Single role ZBW_ACCOUNTS_RECEIVABLE_EXEC_T ZBW_CUSTOMER_SERV_QUERY_EXEC_T ZBW_FICO_QUERY_EXEC_T ZBW_FSCM_QUERY_EXEC_T ZBW_MM_QUERY_EXEC_T ZBW_PLANT_MAINTENENCE_EXEC_T ZBW_PROCUREMENT_QUERY_EXEC_T ZBW_SD_QUERY_EXEC_T ZBW_SUPPLY_CHAIN_EXEC_T		2.	different roles in SAP BW for different application areas (Such as FI, SD, MM etc). Chosen BW-BEX reports from the specific application areas can be				
ZBWC_ACCTS_RECEIVABLE_EUSR_TST ZBWC_CUSTOMER_SERVICE_EUSR_TST ZBWC_FICO_EUSR_TST ZBWC_FSCM_EUSR_TST ZBWC_MM_EUSR_TST ZBWC_PLANT_MAINTENANC_EUSR_TST ZBWC_PROCUREMENT_EUSR_TST ZBWC_SD_EUSR_TST ZBWC_SUPPLY_CHAIN_EUSR_TST	FICO End User Dispute Management End User BW MM End User	3.	saved to the relevant roles, if we want to restrict the users in Business Objects to have restricted access. Depending on the jobprofile and the department they belong, roles are going to be assigned to BW business users and developers.				

Note: BW Authorization set up is covered in detailed, in appendix section below.

4. If Business Object users need to have different reporting access in **Business** Objects Analysis; in comparison to SAP BW users; then a new set of roles can be developed in SAP BW for SAP **BusinsssObjects** environment. Through these new set of roles, same users can be allowed different report access in BO systems to BW reports.

1.4 Business Objects Authorization



Name A Demo level Full Control Full Control (Owner) Schedule Testing View View On Demand

ZSchedule

- 5. When we create any new "Folder", three sets of permissions are automatically assigned: Administrator, Developer and Everyone. "Administrators" are given the access level "Full Control". "Everyone" is given the access level "No Access". "Developers" are given the access level "Full Control".
- 6. Select each Folder → Right click → User Security → Add Principles → Select Groups. Each folder should "Administrators", have "Everyone" "Developers", mandatorily. In addition, they should have the application specific groups. For example: the FINANCE Folder should have following groups; "Power user -Finance" & "Report user -Finance", in addition "Administrator", "Developer" & "Everyone". Once a Principal / **Group** are assigned to a folder, we choose -"Add/Assign Security".
- 7. At this stage, we will be required to choose either "Generic Access levels" such as "Full control", "Schedule", "View" or "View on demand" or we can create custom access level or we can even maintain "ADVANCED access level" analysing complex scenario with set of very detailed parameters from "Advance" tab.
 - Access Levels need to be defined for each of the User or User Groups assigned to the folders.
 - "Grant" radio button can be selected for providing various accesses such as to schedule a report, view, Pause and

resume its Scheduled instances
etc.
• "Deny" radio button can be
selected to deny access to
other activities such as
accessing any folder or report,
and to view, delete a report.
We can also allow the rights to
be applied to a "Sub object",
by checking the Object and Sub
Object check boxes, next to the
Rights column.
Only after we click grant or
deny radio button, "Object"
and "Sub-object" check boxes
are enabled. Now we can
maintain the scope of rights.
 If we want to apply a right only
for a "Folder" and "not for its
"Sub folders", then we can
uncheck sub-object check box.

Note: Unlike SAP systems, Business Object Enterprise do not comprise of Roles, Profiles and Authorization objects. Security in Business Objects is different than SAP and it consists of: Folder level security, Application Security, Object Level Security and inheritance concepts.

1.4.1 Assignment of User Groups & Roles to the Folders in Business Objects in CMC

Business Object Server Folders	User Group Assignment to the Folders	BW Role Assignment to the Group			
Finance & Controlling	Developer	Role from SAP BW Containing all			
	Administrator	the Finance specific reports we			
	Everyone	want to be accessible in BO			
	Power user – Finance	Analysis for excel.			
	Report user – Finance				
Procurement	Developer	Role from SAP BW Containing all			
	Administrator	the Procurement specific reports			
	Everyone	we want to be accessible in BO			
	Power user – Procurement	Analysis for excel.			
	Report user – Procurement				
Financial Supply Chain	Developer	Role from SAP BW Containing all			
Management	Administrator	the FSCM specific reports we want			
	Everyone	to be accessible in BO Analysis for			
	 Power user – Operations 	excel.			
	Report user – Operations				
Customer Services	Developer	Role from SAP BW Containing all			
	Administrator	the Customer Services specific			
		reports we want to be accessible			

	Everyone	in BO Analysis for excel.				
	 Power user – Customer Services 					
	Report user – Customer Services					
Supply Chain	Developer	Role from SAP BW Containing all				
Management	Administrator	the Supply Chain specific reports				
	Everyone	we want to be accessible in BO				
	Power user – Supply Chain	Analysis for excel.				
	Report user – Supply Chain					
Accounts Receivable	Developer	Role from SAP BW Containing all				
	Administrator	the Accounts Receivable specific				
	Everyone	reports we want to be accessible				
	Power user – Accounts Receivable	in BO Analysis for excel.				
	Report user – Accounts Receivable					
Plant Maintenance	Developer	Role from SAP BW Containing all				
	Administrator	the Plant Maintenance specific				
	Everyone	reports we want to be accessible				
	Power user – Plant Maintenance	in BO Analysis for excel.				
	Report user – Plant Maintenance					
Sales & Distribution	Developer	Role from SAP BW Containing all				
	Administrator	the Sales & Distribution specific				
	Everyone	reports we want to be accessible				
	 Power user – Sales & Distribution 	in BO Analysis for excel.				
	 Report user – Sales & Distribution 					
Materials	Developer	Role from SAP BW Containing all				
Management	Administrator	the Materials Management				
	Everyone	specific reports we want to be				
	Power user – Materials Management	accessible in BO Analysis for excel.				
	Report user – Materials Management					

1.4.2 Relationship between Access Levels and User Groups in Business Objects CMC

Access Level	Rights	User Groups				
No Access	The no access level may be misleading. The no access level does not explicitly deny access, but rather, sets all permissions to "Not Specified." This can be overridden					
	through inheritance.					
View	When set at the folder level, the user can view the folder, the objects contained in the folder, and all generated instances of each object.					
	At object level, the user can view the object, history of the object, and all generated instances of the object.					
	The user cannot schedule or refresh the report, however					
	by default; the user can edit the report and save to a personal folder to refresh there. We can deny users from copying the object by going to advanced and denying					

	"Copy Objects to another folder"	
Schedule	A user can generate instances by scheduling the object to run against a specified data source once or on a recurring basis. The user has full access to the scheduled instances that they own. They can also schedule to different formats and destinations, set parameters, pick servers to process jobs, add contents to the folder, and copy the object or folder.	Developers Administrators Power-Users
View On Demand	A user can refresh a report in real time. Note that if a report is a WEBI document, the user will also need View On Demand access to the universe and universe connection to perform the refresh.	Power Users
Full Control	Allows users to modify all of the object's properties. This is the only access level that allows users to delete objects.	Developers Administrators

2 Authorization Strategy

Model – Separating Functional Access Groups from Data Access Groups

 This model is probably the most common model to implement as it has the right balance between flexibility and cost of development and maintenance. Here we have 2 sets of groups: one that defines "functional access" and one that defines "application access". A user is then a member of one of the functional groups and one or more application groups; this then defines overall access strategy.

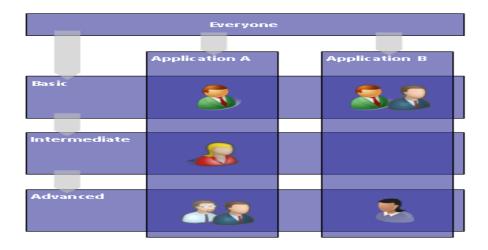
Functional Groups

• We first define the required functional access groups. We can have 3 functional groups of "Basic" (Report Users), "Intermediate" (Power Users) and "Advanced" (Developer or Administrators); where again we have an inheritance model of increasing rights. This, along with the "Everyone" group defines the 'baseline' security model. Users will be a member of at most one of these 3 groups, if a user is in more than one then the resolved access will be that of the more advanced group.

BI Application Groups

• We also create user groups that define separate BI Applications. The BI application (FI, FI-AP, FI-AR, SD, MM, PUR etc) itself defines data access, that is, it controls access to reports and universes that comprise the application. Users can belong in one or more of these groups.

A user then belongs to one functional group and one or more application groups. It should be noted that a user can then only have the same functional access across applications. I.e. if a user is a "Basic" user in one application they must also be a Basic user in any other application they have access to. A second similar point is that each application must reuse same functional access model, that is, we can't have two Basic groups with different functional access in two different applications.



Proposed Access Level & Data Access Profile of Various user types:

Access Level	User Types	FI	CS	AR	SD	MM	PM	SCM	FSCM	Procurement
View	Report Users	Х	Χ	Х	Х	Χ	Χ	Χ	Χ	X
View	Report Users - FI	Х								
View	Report Users - SD				Х					
View	Report Users - MM					Χ				
View	Report Users -F SCM								Х	
View	Report Users - SCM							Х		

View	Report Users -AR			Χ						
View	Report Users - CS		Χ							
View	Report Users - PR									X
View	Report Users - PM						Χ			
View on Demand	Power Users	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
View on Demand	Power Users - FI	Х								
View on Demand	Power Users - SD				Χ					
View on Demand	Power Users - MM					Χ				
View on Demand	Power Users - FSCM								Χ	
View on Demand	Power Users - SCM							Χ		
View on Demand	Power Users -AR			Χ						
View on Demand	Power Users - CS		Χ							
View on Demand	Power Users - PR									Х
View on Demand	Power Users - PM						Χ			
Full Access	Developer	Χ	Χ	Х	Х	Χ	Χ	Х	Х	Х
Full Access	Administrator	Χ	Х	Χ	Х	Х	Х	Х	Х	X

3 Step-by-Step SAP BusinessObjects Authorization Configuration

This document covers how to create users, user groups and ends with creating access Levels and basic troubleshooting techniques using the Security Query.

User and User Group Creation: 3.1

Users in Business Objects can be of various types, and a user can login to Business Objects using that particular authentication with which the user has been created with. The authentications are:

- 1. Enterprise
- 2. LDAP
- 3. Windows AD
- 4. SAP

In our context; "SAP" user authentication is appropriate and users are created with.

STEP 1: Creating a User:

The example below illustrates "How to create a user" in Business Objects.

Login to CMC → Go to Users and Groups, by selecting appropriate icon from left hand side bar.



and for **User group** creation click on



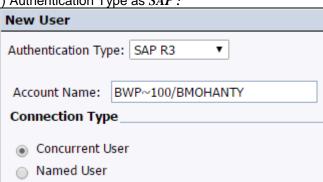
To create a new **User** click on OR

Click **Manage**:



Select the Authentication Type in the next screen and maintain the required fields.

1) Authentication Type as SAP:



- When Authentication type is SAP, then we only need to maintain Account Name as <SAP SID>~<Client No.>/<SAP User ID> .
- User will login in Business Object Using his SAP Login credentials.

Connection Type:

- : This user belongs to a license agreement that states the number of Concurrent users allowed to be connected at one time.
- Named : This user belongs to a license agreement that associates a specific user with a license. Named user licenses are useful for people who require access to Business Objects Enterprise regardless of the number of other people who are currently connected.

Click Create & Close

NOTE: "Administrator" is the default user that comes along with the Business Objects installation.

3.3 **STEP 2: User Group Creation**

The user group is a collection of users who require same kind of authorization. So instead of assigning authorization to every new user that is created, we can create a user group and assign the requisite authorization to it, and later simply assign the user to that particular user Group.



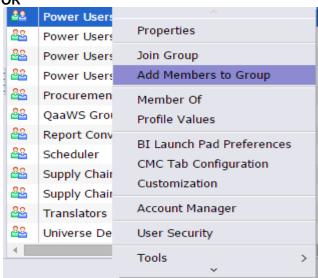
Name the User Group:

Create New U		
Group Name:	Power Users - Finance	
Description:	Power Users - Finance	
		 Click "O

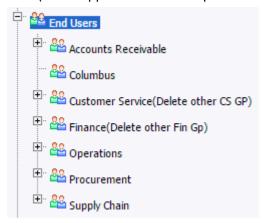
Once a User Group is created, we can add a user to the group click (Add member to user group); by selecting the below icon from the MENU BAR.



OR



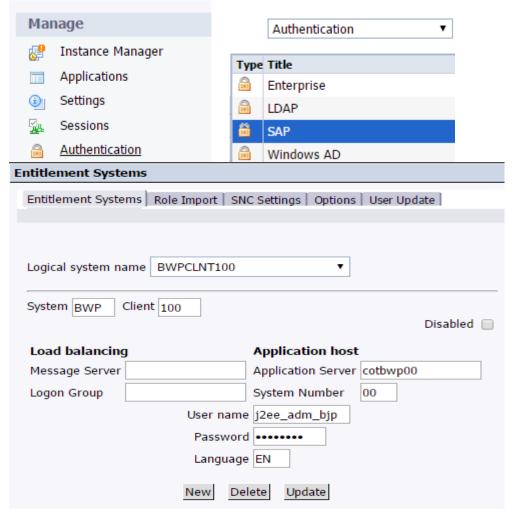
We can add a newly created or existing group to some other group while we can also assign a user to a group. All the BW roles, once imported to BO CMC appear as User Groups as well. This is because they are already assigned to users from BW based on their configuration in BW. We can assign these roles (which appear as User Groups in BO CMC) to the newly created User Groups.



NOTE: Administrators and Everyone are the default groups that come along with the Business Objects installation.

3.4 STEP 3: Importing Roles from the backend SAP BW system

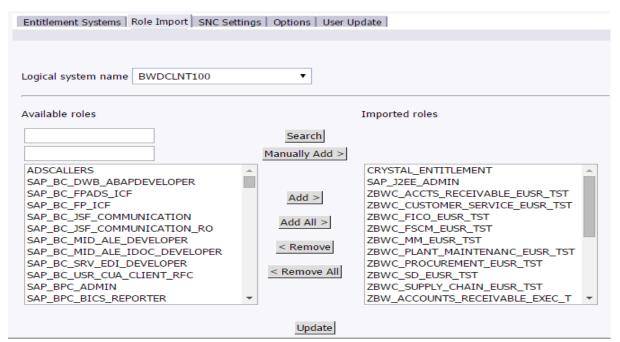
This section covers 'How to import roles', which in turn import users from a backend SAP BW system to the Business Objects System.



Login to the CMC → Click Authentication → SAP

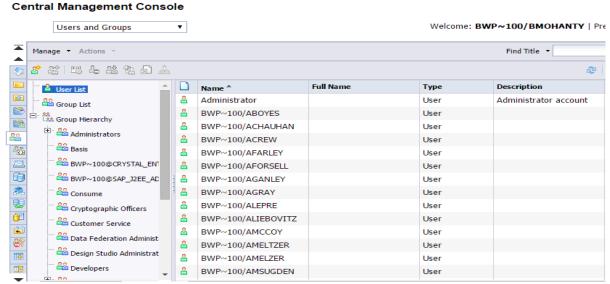
Since our Business Objects System is connected to a Backend SAP BW System; we are able to see a list of Roles in the left Pane which belong to the SAP BW system. We can now Import the roles from the Backend SAP BW system to the Business Objects system, select the role in the left pane and

click to import the roles then click **Update**:



When a role is imported all the users assigned to that role in our backend SAP BW system, will also get imported into the Business Objects system.

Now when a new user get assigned to an existing role in backend in SAP BW, only we need to click *Update Now* button under *User Update* tab and the user will get created in the Business Objects system. To automate this activity also, we have already elaborated the steps in the next sections.

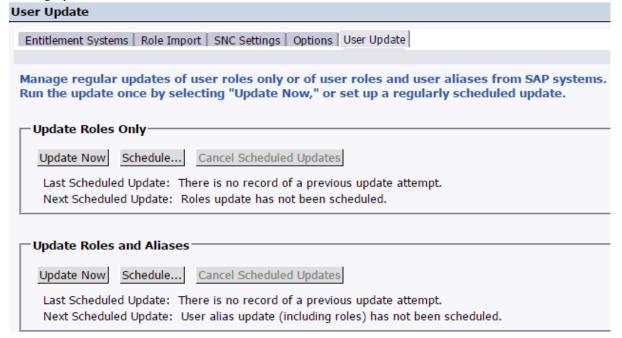


Here, BWP is our SAP system Id, while 100 is the client number from where the users arrive, hence the naming convention: **BWP~100/.**

3.5 STEP 4a: Automating Importing of Roles from SAP BW system into Business Objects

Click the *User Update* tab, now we need to check the field "*Update now*" or "*Schedule*" to import the "Role" or "Role and Alliances" information from SAP BW.

Whenever a user assignment is done to a role in backend (which has already imported in Business Objects) and user should get created in Business Objects. To create/update them automatically we should use *Schedule button*. We can also force Synchronization under *User Update* tab by clicking *Update Now* button.

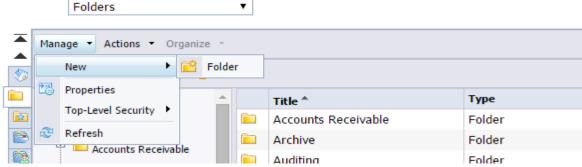


3.6 STEP 4b: Schedule a SAP Authentication Role update in Business Objects using a java program

To schedule (automate) the updating of SAP Users in the Business Objects system, we need to follow the steps mentioned below:

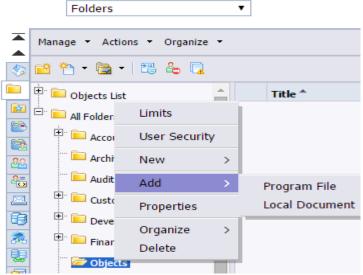
- 1 .Download SAP Update. jar file from SAP Note: 1406037
- 2. Unzip the file
- 3. Login in Business Objects CMC → Folders → Manage → New → Folder → name "Objects"

Central Management Console

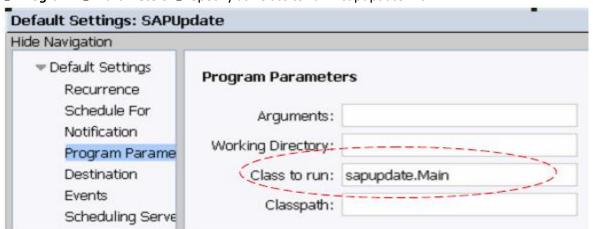


4. Select the folder "Objects" and click on Manage | Add | Program File

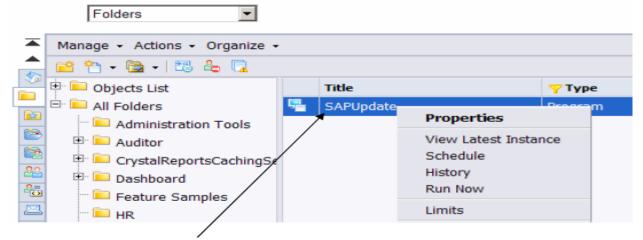
Central Management Console



- 5. Choose as Program Type as Java and add SAPUpdate.jar from the local drive.
- 6. Right Click on SAPUpdate within our **Objects** folder and choose **→ Properties → Default Settings → Program → Parameters →** Specify as "Class to run:" sapupdate.Main



Use the "*Run Now*" or *Schedule* the Program Object. Recurrence for this Program can be set as desired.



Now, the SAP BW users will get imported every time when they are created and assigned to a role in the SAP BW system which has already been imported in Business Objects CMC. As such, there is no

need to create a user in the Business Object CMC every time a new user is created in the SAP BW system. .

Note: The statement assumes that every user which is created in the SAP system needs to be created in Business Objects system. Else, if all the users are not required in the Business Objects system, the role which is imported in the Business Objects system should not be assigned to such users in the SAP backend. Two different roles can be created in that case, one for BW and one for Business Objects.

3.7 STEP 5: Standard Access Levels

Pre-Defined access levels:

There are four default access levels that come along with the Business Objects Installation for securing the content. These levels are explained as below:

- 1. **Full Control**: A principal has full administrative control of the object.
- 2. **Schedule:** A principal can generate instances by scheduling an object to run against a specified data source once or on a recurring basis.
- 3. **View:** If set on the folder level, a principal can view the folder, View objects within the folder, and each object's generated instances.
- 4. View on Demand: A principal can refresh data on demand against a data source.
- 5. **No Access:** The user or group is not able to access the object or folder.

Central Management Console



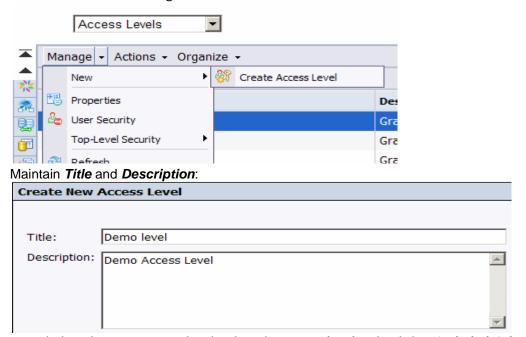
To see what rights are included in an access level; Go to **CMC** → select **Access Level** → Right click - > **Include rights**



3.8 STEP 6: Custom Access Levels

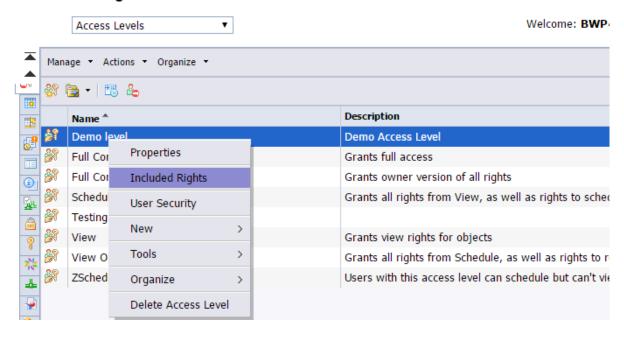
In addition to the predefined access levels, we can also create and customize our own access level, which can greatly reduce administrative and maintenance costs associated with security.

To create access levels: Login to **CMC** → Select **Access Levels**.

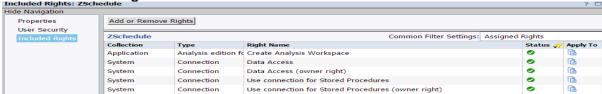


To include rights in an access level, select the Access level, right click -> included rights

Central Management Console



Click Add/Remove Rights:



We will be able to see four types of rights collections in the left panel namely:

- General
- Content
- Application
- System



By default we will be guided to the "General Global rights" window. Each "General global rights" can have a status of:

- Granted
- Denied
- Not Specified.
- Apply to the Object
- Apply to the Sub-Object

We can also choose whether to apply these rights to the object only or to their sub-objects only, or both. To set type-specific rights for the access level, in the navigation list, click the **Rights** collection, and then click the Sub collection that applies to the object type we want to set the rights for.



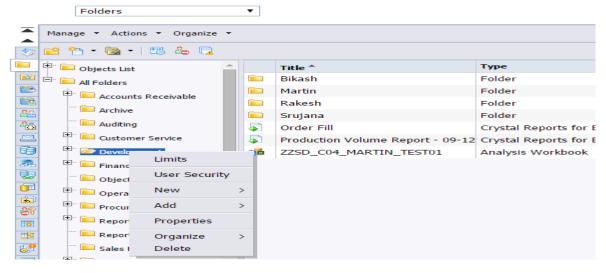
3.9 STEP 7: Folder level Security

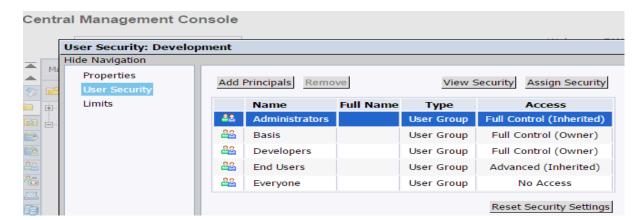
Folder-level security enables us to set access-level rights for a folder and the objects contained within that folder. While folders inherit security from the top-level folder (root folder), subfolders inherit the security of their parent folder. Rights set explicitly at the folder level override inherited rights.

To set folder level security:

- 1. Login to CMC → Select Folders
- 2. Right click on the particular folder → select *User Security*.

Central Management Console

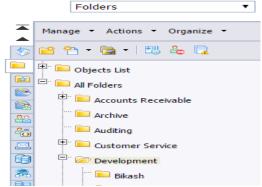




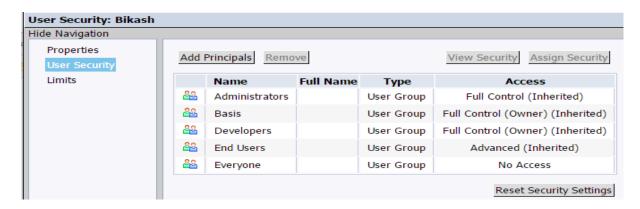
If we analyse the "Folder Level security" for "Development" folder, we can see following:

- "Administrators" have inherited "Full Control"
- "End Users" have inherited "Advanced" Access level.
- "Developers" have been given "Full Control"
- "Basis team members" have been given "Full Control"
- And "Everyone else" has "No Access".

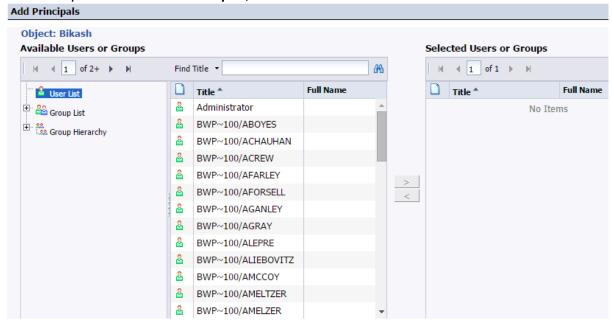
Central Management Console



"Bikash" is a folder under "Development" folder. Hence everything inherited from the "Access Level" at the "Development" folder.

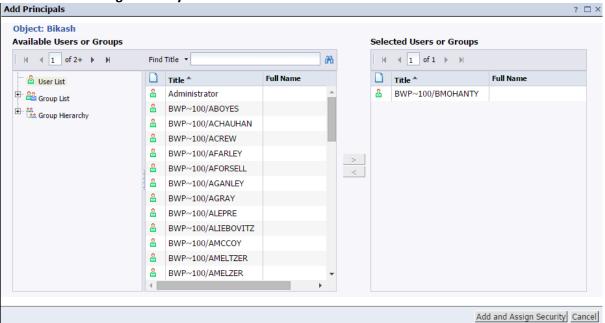


Additionally we can add other Principals, as well.



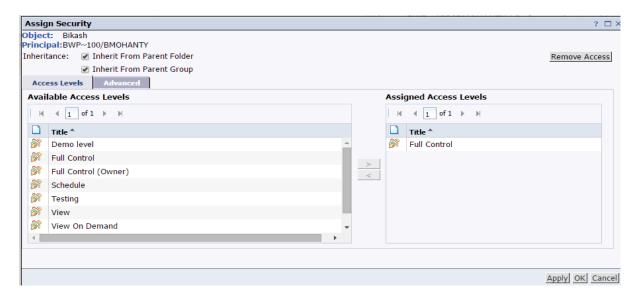
Select the *Principal* (user / group) we wish to add. On the same screen in the bottom right corner click: "Add and Assign Security".

| Add Principals | Princip

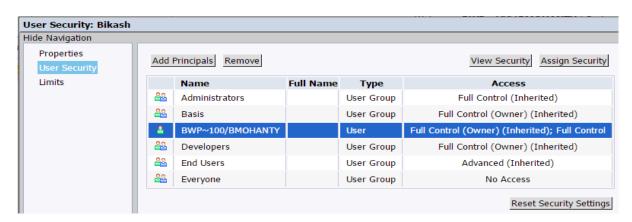


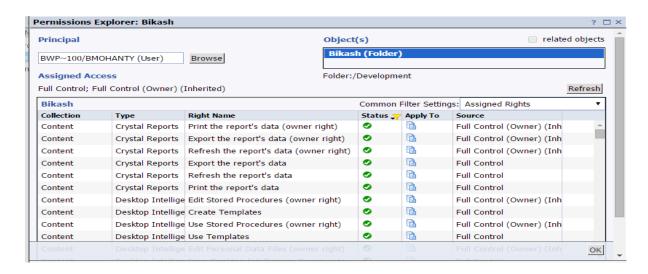
Assign the appropriate "Access Levels" and on the same screen in the bottom right corner click: "Apply" and "OK".

To provide the requisite "Full Control"; Access Level to this Principal "BMOHANTY". Here is what we do. Click *Apply*, and then Click *OK*.



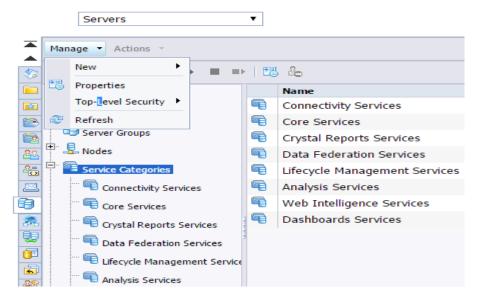
To View, what access has been provided to the Principal click "View Security"





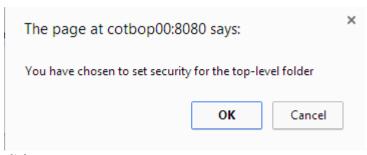
4 Top Level / Server Level Security:

Central Management Console

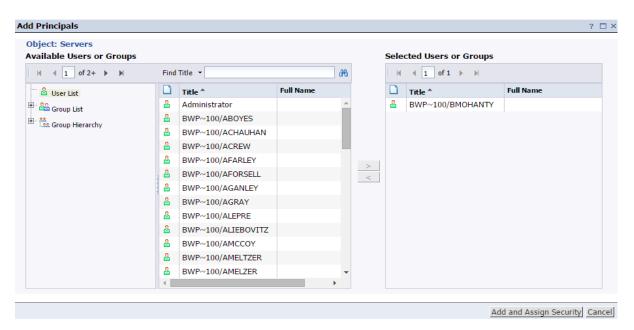


This example shows, how Top Level Security can be assigned to a principal against the Business Objects Servers: Manage the Top Level Security for Severs: For this:

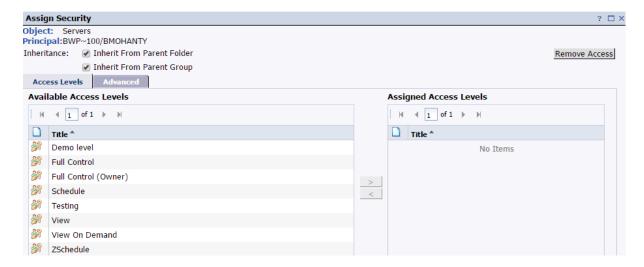
- 1. Login to CMC -> Servers-> Manage
- 2. Select *Top Level Security* _ *All Servers* → *All Server Groups*.



Click OK.



Add Principals

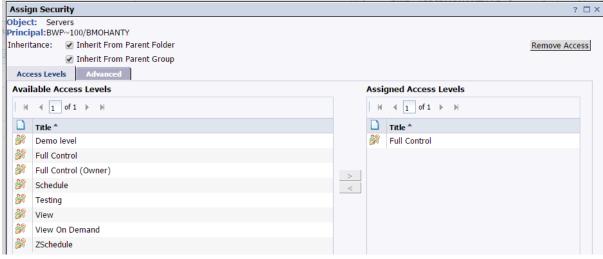


To Break Inheritance:

If our Principal is a part of multiple groups and to avoid "Conflict of Rights" we can uncheck the:

- 1. Inherit From Parent Folder
- 2. Inherit From Parent Group.

Now, we can provide "Access" / "Advanced level" security as required.



5 Application Level Security:

Users need access to particular Business Objects applications to perform their jobs effectively. Business Objects Administrator is responsible for setting appropriate application security levels according to the needs of our organization.

Application security is used to control the functionality that users and groups have to the Business Objects Enterprise applications. The Manage area of the CMC allows us to control access for the following Business Objects Enterprise applications:

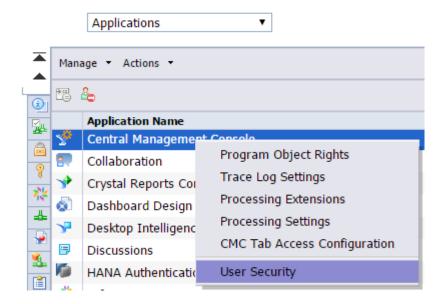


6 Manage CMC User Security

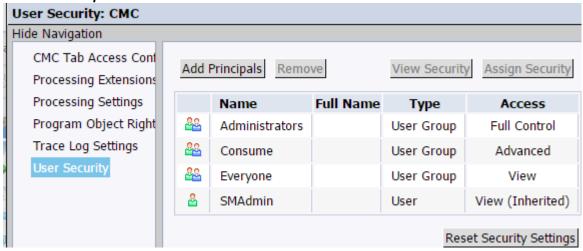
To Manage CMC security:

Logon to *CMC* -> Click *Applications* → Select *CMC* → Now Right Click → select *User Security*.

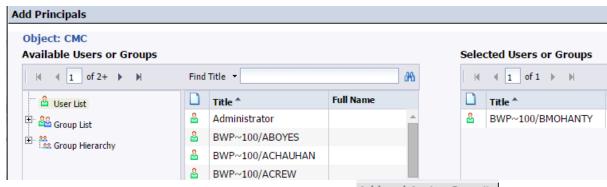
Central Management Console



Click Add Principals:

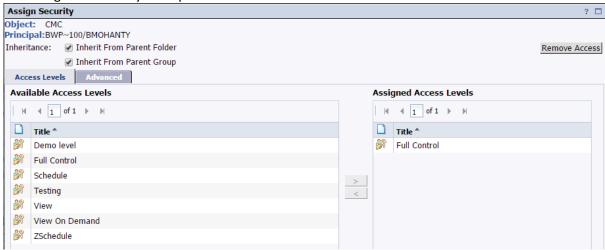


Select the principal for which we want to assign security.



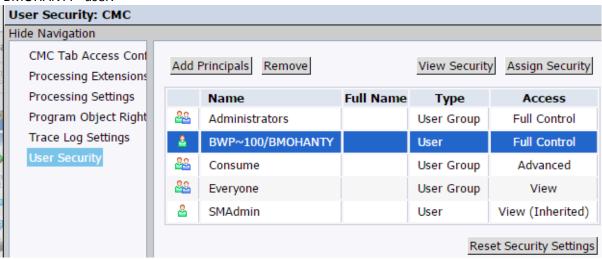
On the bottom right corner click "Add and Assign Security: Add and Assign Security

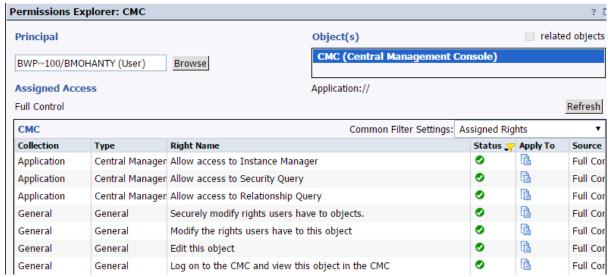
Now assign the security as required:



Now Click "Apply" & "Ok"

Now Click "*View Security*" on the Next screen to check what access has been provided to "BMOHANTY" user:

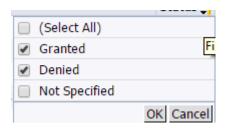




Similarly we can manage Security, and access for rest of the applications.

7 Advance Rights

We may sometimes need to override certain granular rights in an access level. Advanced rights let us customize the rights for a principal on top of the access levels, the principal already has. There are 3 Type of rights exist as explained earlier:



Exception:

- In general, the rights that are set on child objects override the rights that are set on parent Object.
- In general, the rights that are set on subgroups or members of groups override the rights that are set on groups.
- If a user belongs to more than one group, and there is a conflict in rights assignments between the groups to which the user belongs to, the Denied (D) right wins over a Granted (G) right, and the Granted (G) right wins over a Not Specified

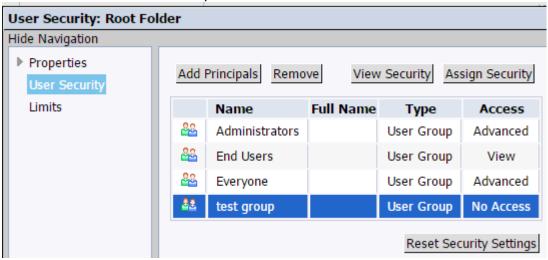
Examples: (Advanced Rights)

We will be discussing, how advanced rights are used through this example. Consider an example where our user needs to have following access:

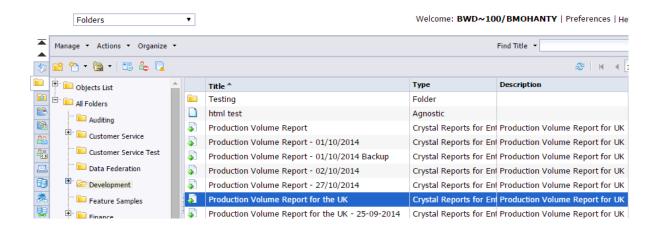
- i) Needs to be provided no access to any folder or report,
- ii) Need to have access to schedule a report (Material Plant),
- iii) Need to view, pause and resume its scheduled instances
- iv) Need to be restricted to delete a instance and view a report.

We proceed as below:

1. Maintain No Access at root level security at Folders:



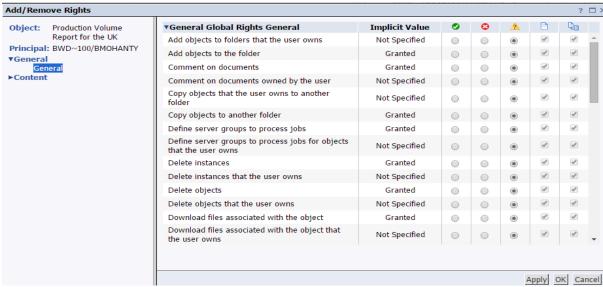
2. Select the "Production Volume Report for the UK" → Right clicks → User Security



Break inheritance and click Advance tab -> Add/Remove Rights



Once done, we are able to view the General global rights. Now maintain the rights by clicking on radio buttons for grant denied or not specified. Rights are divided into the following collections based on the object types they apply to:



- Select the Grant radio button for providing access to schedule a report, view, pause and resume its Scheduled instances.
- Select Deny radio button to deny access to any folder or report, and to view, delete a report.
- We can also allow the rights to be applied to a Sub object, by checking the Object and Sub Object check boxes, next to the Rights column.
- Only after we click grant or deny radio button, object and sub-object check boxes are enabled. Now
 we can maintain the scope of rights.
- If we want to apply a right only for a folder and not for its sub folders, then uncheck sub-object check box.

8 Security Query

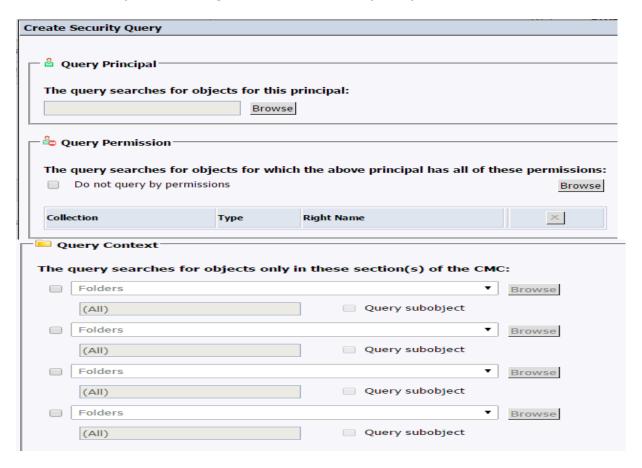
Due to the complexities inherent in a security system as complicated as Business Objects Enterprise, systems administrators sometimes find it difficult to pinpoint from where a particular user right is inherited.

Security queries let us determine which objects a principal has certain rights to and enables us to manage user rights:

In the earlier section of this document, we have created a group called "Power User - Finance". In this section we will find out what access "Power User - Finance" have on Servers using the "Security Query". For this: Logon to *CMC ->* Select "*Query Results*"



Now select **Security Queries** → Right click → Create **Security Query**.



Lets provide the required inputs as below:

- i) Principal (User / User Group).
- ii) Check /Uncheck Query Permission as per the requirement.
- iii) Select the Query Context (Servers)
- After selecting the required parameters click **OK**.
- Now, the next screen appears showing the result regarding what access the *principal* has on the *Query context*.
- We can also click on the **Source** column to view, from where the Principal is obtaining its access:

In case we see, the source along with (Inherited) it implies that access comes either from the Parent group or from the parent folder.

9 Appendix (BW Authorization Set up in Detail)

SAP BW "TEST" USERS

	User	Note	User Type	Application Area
1	DEVELOPER	New Test User	All Access User	Cross-Application
2	REPORTUSER	New Test User	All Access User	Cross-Application
3	POWERUSER	New Test User	All Access User	Cross-Application
4	CSRUSER	New Test User	Report User	Customer Services
5	CSPUSER	New Test User	Power User	Customer Services
6	SDRUSER	New Test User	Report User	Sales & Distribution
7	SDPUSER	New Test User	Power User	Sales & Distribution
8	FIRUSER	New Test User	Report User	Finance & Controlling
9	FIPUSER	New Test User	Power User	Finance & Controlling
10	FSCMRUSER	New Test User	Report User	Dispute Management
11	FSCMPUSER	New Test User	Power User	Dispute Management
12	SCMRUSER	New Test User	Report User	Supply Chain Management
13	SCMPUSER	New Test User	Power User	Supply Chain Management
14	PMRUSER	New Test User	Report User	Plant Maintenance
15	PMPUSER	New Test User	Power User	Plant Maintenance
16	MMRUSER	New Test User	Report User	Materials Management
17	MMPUSER	New Test User	Power User	Materials Management
18	MMRUSER	New Test User	Report User	Procurement
19	MMPUSER	New Test User	Power User	Procurement
20	ARRUSER	New Test User	Report User	Accounts Receivable
21	ARPUSER	New Test User	Power User	Accounts Receivable

SAP BW "POWERUSER" ROLES

	Roles	Note	Purpose
11	ZBW_ACCOUNTS_RECEIVABLE_EXEC_T	New Test Role	Accounts Receivable Queries
12	ZBW_CUSTOMER_SERV_QUERY_EXEC_T	New Test Role	Customer Services Queries
13	ZBW_FICO_QUERY_EXEC_T	New Test Role	Finance & Controlling Queries
14	ZBW_MM_QUERY_EXEC_T	New Test Role	Materials Management Queries
15	ZBW_PROCUREMENT_QUERY_EXEC_T	New Test Role	Procurement Queries
16	ZBW_SD_QUERY_EXEC_T	New Test Role	Sales & Distribution Queries
17	ZBW_FSCM_QUERY_EXEC_T	New Test Role	Dispute Management Queries
18	ZBW_SUPPLY_CHAIN_EXEC_T	New Test Role	Supply Chain Queries
19	ZBW_PLANT_MAINTENENCE_EXEC_T	New Test Role	Plant Maintenance Queries

SAP BW "REPORTUSER" ROLES

	Roles	Note	Purpose
1	ZBWC_ACCTS_RECEIVABLE_EUSR_TST	New Test Role	Accounts Receivable Queries
2	ZBWC_CUSTOMER_SERVICE_EUSR_TST	New Test Role	Customer Services Queries
3	ZBWC_FICO_EUSR_TST	New Test Role	Finance & Controlling Queries
4	ZBWC_MM_EUSR_TST	New Test Role	Materials Management Queries
5	ZBWC_PROCUREMENT_EUSR_TST	New Test Role	Procurement Queries
6	ZBWC_SD_EUSR_TST	New Test Role	Sales & Distribution Queries

7	ZBWC_FSCM_EUSR_TST	New Test Role	Dispute Management Queries
8	ZBWC_SUPPLY_CHAIN_EUSR_TST	New Test Role	Supply Chain Queries
9	ZBWC PLANT MAINTENANC EUSR TST	New Test Role	Plant Maintenance Queries

SAP BW TEST" "ROLE" ASSIGNMENT TO different "USERS"

	Access to ALL Report - Power Users (USER ID: POWERUSER)				
	Roles	Note	Purpose		
1	CRYSTAL_ENTITLEMENT	Existing Role			
2	ZBW_ACCOUNTS_RECEIVABLE_EXEC_T	New Test Role	Accounts Receivable Queries		
3	ZBW_CUSTOMER_SERV_QUERY_EXEC_T	New Test Role	Customer Services Queries		
4	ZBW_FICO_QUERY_EXEC_T	New Test Role	Finance & Controlling Queries		
5	ZBW_MM_QUERY_EXEC_T	New Test Role	Materials Management Queries		
6	ZBW_PROCUREMENT_QUERY_EXEC_T	New Test Role	Procurement Queries		
7	ZBW_SD_QUERY_EXEC_T	New Test Role	Sales & Distribution Queries		
8	ZBW_FSCM_QUERY_EXEC_T	New Test Role	Dispute Management Queries		
9	ZBW_SUPPLY_CHAIN_EXEC_T	New Test Role	Supply Chain Queries		
10	ZBW_PLANT_MAINTENENCE_EXEC_T	New Test Role	Plant Maintenance Queries		
11	ZBW_COMMON_USER_FUNCTIONS	Existing Role			
12	ZSAP_ECC_RFC_ROLE	Existing Role			

	Commercial Finance Report Users (USER ID: CFRUSER)					
	Roles	Note	Purpose			
1	CRYSTAL_ENTITLEMENT	Existing Role				
2	ZBWC_ACCTS_RECEIVABLE_EUSR_TST	New Test Role	Accounts Receivable Queries			
3	ZBWC_CUSTOMER_SERVICE_EUSR_TST	New Test Role	Customer Services Queries			
4	ZBWC_FICO_EUSR_TST	New Test Role	Finance & Controlling Queries			
5	ZBW_COMMON_USER_FUNCTIONS	Existing Role				
6	ZSAP_ECC_RFC_ROLE	Existing Role				

	Commercial Finance Power Users (USER ID: CFPUSER)				
	Roles	Note	Purpose		
1	CRYSTAL_ENTITLEMENT	Existing Role			
2	ZBW_ACCOUNTS_RECEIVABLE_EXEC_T	New Test Role	Accounts Receivable Queries		
3	ZBW_CUSTOMER_SERV_QUERY_EXEC_T	New Test Role	Customer Services Queries		
4	ZBW_FICO_QUERY_EXEC_T	New Test Role	Finance & Controlling Queries		
5	ZBW_COMMON_USER_FUNCTIONS	Existing Role			
6	ZSAP_ECC_RFC_ROLE	Existing Role			

	Procurement Report Users (USER ID: PRRUSER)					
	Roles	Note	Purpose			
1	CRYSTAL_ENTITLEMENT	Existing Role				
2	ZBWC_PROCUREMENT_EUSR_TST	New Test Role	Procurement Queries			
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role				
4	ZSAP_ECC_RFC_ROLE	Existing Role				

	Procurement Power Users (USER ID: PRPUSER)				
	Roles	Note	Purpose		
1	CRYSTAL_ENTITLEMENT	Existing Role			
2	ZBW_PROCUREMENT_QUERY_EXEC_T	New Test Role	Procurement Queries		
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role			
4	ZSAP ECC RFC ROLE	Existing Role			

	MM Report Users (USER ID: MMRUSER)					
	Role	Note	Purpose			
1	CRYSTAL_ENTITLEMENT	Existing Role				
2	ZBWC_MM_EUSR_TST	New Test Role	Materials Management Queries			
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role				
4	ZSAP_ECC_RFC_ROLE	Existing Role				

	MM Power Users (USER ID: MMPUSER)			
	Roles	Note	Purpose	
1	CRYSTAL_ENTITLEMENT	Existing Role		
2	ZBW_MM_QUERY_EXEC_T	New Test Role	Materials Management Queries	
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role		
4	ZSAP_ECC_RFC_ROLE	Existing Role		

Customer Services Report Users (USER ID: CSRUSER)			
	Roles	Note	Purpose
1	CRYSTAL_ENTITLEMENT	Existing Role	
2	ZBWC_CUSTOMER_SERVICE_EUSR_TST	New Test Role	Customer Services Queries
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role	
4	ZSAP_ECC_RFC_ROLE	Existing Role	

	Customer Services Power Users (USER ID: CSPUSER)			
	Roles	Note	Purpose	
1	CRYSTAL_ENTITLEMENT	Existing Role		
2	ZBW_CUSTOMER_SERV_QUERY_EXEC_T	New Test Role	Customer Services Queries	
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role		
4	ZSAP_ECC_RFC_ROLE	Existing Role		

	Finance Report Users (USER ID: FIRUSER)			
	Roles	Note	Purpose	
1	CRYSTAL_ENTITLEMENT	Existing Role		
2	ZBWC_FICO_EUSR_TST	New Test Role	Finance & Controlling Queries	
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role		
4	ZSAP_ECC_RFC_ROLE	Existing Role		

	Finance Services Power Users (USER ID: FIPUSER)			
	Roles	Note	Purpose	
1	CRYSTAL_ENTITLEMENT	Existing Role		
2	ZBW_FICO_QUERY_EXEC_T	New Test Role	Finance & Controlling Queries	
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role		
4	ZSAP_ECC_RFC_ROLE	Existing Role		

	Accounts Receivable Report Users (USER ID: ARRUSER)			
	Roles	Note	Purpose	
1	CRYSTAL_ENTITLEMENT	Existing Role		
2	ZBWC_ACCTS_RECEIVABLE_EUSR_TST	New Test Role	Accounts Receivable Queries	
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role		
4	ZSAP_ECC_RFC_ROLE	Existing Role		

	Accounts Payable Power Users (USER ID: ARPUSER)			
	Roles	Note	Purpose	
1	CRYSTAL_ENTITLEMENT	Existing Role		
2	ZBW_ACCOUNTS_RECEIVABLE_EXEC_T	New Test Role	Accounts Receivable Queries	
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role		
4	ZSAP_ECC_RFC_ROLE	Existing Role		

	Supply Chain Report Users (USER ID: SCMRUSER)			
	Roles	Note	Purpose	
1	CRYSTAL_ENTITLEMENT	Existing Role		
2	ZBWC_SUPPLY_CHAIN_EUSR_TST	New Test Role	Supply Chain Queries	
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role		
4	ZSAP_ECC_RFC_ROLE	Existing Role		

	Supply Chain Power Users (USER ID: SCMPUSER)			
	Roles	Note	Purpose	
1	CRYSTAL_ENTITLEMENT	Existing Role		
2	ZBW_SUPPLY_CHAIN_EXEC_T	New Test Role	Supply Chain Queries	
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role		
4	ZSAP_ECC_RFC_ROLE	Existing Role		

	Dispute Management Report Users (USER ID: FSCMRUSER)			
	Roles	Note	Purpose	
1	CRYSTAL_ENTITLEMENT	Existing Role		
2	ZBWC_FSCM_EUSR_TST	New Test Role	Dispute Management Queries	
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role		
4	ZSAP_ECC_RFC_ROLE	Existing Role		

	Dispute Management Power Users (USER ID: FSCMPUSER)			
	Roles	Purpose		
1	CRYSTAL_ENTITLEMENT	Existing Role		
2	ZBW_FSCM_QUERY_EXEC_T	New Test Role	Dispute Management Queries	
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role		
4	ZSAP_ECC_RFC_ROLE	Existing Role		

	SD Report Users (USER ID: SDRUSER)			
	Role	Note	Purpose	
1	CRYSTAL_ENTITLEMENT	Existing Role		
2	ZBWC_SD_EUSR_TST	New Test Role	Sales & Distribution Queries	
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role		
4	ZSAP_ECC_RFC_ROLE	Existing Role		

SD Power Users (USER ID: SDPUSER)			
	Roles	Note	Purpose
1	CRYSTAL_ENTITLEMENT	Existing Role	
2	ZBW_SD_QUERY_EXEC_T	New Test Role	Sales & Distribution Queries
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role	
4	ZSAP_ECC_RFC_ROLE	Existing Role	

PM Report Users (USER ID: PMRUSER)			
	Role	Note	Purpose
1	CRYSTAL_ENTITLEMENT	Existing Role	
2	ZBWC_PLANT_MAINTENANC_EUSR_TST	New Test Role	Plant Maintenance Queries
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role	
4	ZSAP_ECC_RFC_ROLE	Existing Role	

PM Power Users (USER ID: PMPUSER)			
	Roles	Note	Purpose
1	CRYSTAL_ENTITLEMENT	Existing Role	
2	ZBW_PLANT_MAINTENENCE_EXEC_T	New Test Role	Plant Maintenance Queries
3	ZBW_COMMON_USER_FUNCTIONS	Existing Role	
4	ZSAP_ECC_RFC_ROLE	Existing Role	

Developer (USER ID: DEVELOPER)			
	Roles	Note	Purpose
1	CRYSTAL_ENTITLEMENT	Existing Role	
2	SAP_J2EE_ADMIN	Existing Role	
3	ZBC_ECC_RSA1	Existing Role	
4	ZBW_COMMON_USER_FUNCTIONS	Existing Role	
5	ZBW_ACCOUNTS_RECEIVABLE_EXEC_T	New Test Role	Accounts Receivable Queries
6	ZBW_CUSTOMER_SERV_QUERY_EXEC_T	New Test Role	Customer Services Queries
7	ZBW_FICO_QUERY_EXEC_T	New Test Role	Finance & Controlling Queries
8	ZBW_MM_QUERY_EXEC_T	New Test Role	Materials Management Queries

9	ZBW_PROCUREMENT_QUERY_EXEC_T	New Test Role	Procurement Queries
10	ZBW_SD_QUERY_EXEC_T	New Test Role	Sales & Distribution Queries
11	ZBW_FSCM_QUERY_EXEC_T	New Test Role	Dispute Management Queries
12	ZBW_SUPPLY_CHAIN_EXEC_T	New Test Role	Supply Chain Queries
13	ZBW_PLANT_MAINTENENCE_EXEC_T	New Test Role	Plant Maintenance Queries
14	ZSAP_ECC_RFC_ROLE	Existing Role	