

Security Reporting Tips

By Ellen Deak

EI *Editor's Note: There's nothing like the voice of experience! Ellen Deak set off to create some reports for her security system, and found many landmines along the way. This article draws a map around the craters and shows us how to delve into the nether regions of the security structure to get just the data we are looking for. Ellen has provided us with the code that goes along with all this, but in the interest of space, we have omitted it from the Journal. The "long version" will be available on the JDEtips Document Library in under the Technical/Security category.*

JDE does not come with many canned reports for security reporting. When I first sat down to write a report that would show me what a user sees on his task views, I had a lot to learn. Once you know enough to duplicate a user's task view on a report, you should be ready to do about any report variation needed for security reporting.

This article is primarily focused on reporting in JDE OneWorld Xe.

Once you know enough to duplicate a user's task view on a report, you should be ready [for] any report variation.

F0092						
ULUSER	ULAN8	ULUGRP	ULMTVL	ULCMDE	ULMNI	ULFSTP
*PUBLIC	0	*GROUP	Y	Y	G	N
DEVELOPERS	0	*GROUP	Y	Y		N
EYDEAK	74104	DEVELOPERS	Y	Y		Y

F0093			
LLUSER	LLLL	LLSEQ	LLMNI
*PUBLIC	WDV7333	4	
DEVELOPERS	DV7333	17	
DEVELOPERS	RPTWTR	24	
DEVELOPERS	WDV7333	3	
EYDEAK	DV7333	0	
EYDEAK	RPTWTR	0	
EYDEAK	WDV7333	0	

F95921						
RLTOROLE	RLFRROLE	RLEFFDATE	RLEXPDATE	RLROLETYPE	RLSYSROLE	RLDEFROLE
*PUBLIC	JDE012	100119	0	0	0	0
*PUBLIC	JDE034	100119	0	0	0	0
*PUBLIC	JDE037	100119	0	0	0	0
*PUBLIC	JDE041	100119	0	0	0	0
*PUBLIC	JDE042	100119	0	0	0	0
EYDEAK	CTB005	103104	0	0	0	1
EYDEAK	QCSA062	103183	0	0	0	0

Figure 1 - User Security Sample Data

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Security Layers

JDE uses two security layers. The User/Object defines access at the user/group/public level. The Role/Task Layer defines access at the task/role level. To figure out what shows up on a user's task view, you need to find where these layers intersect.

User Security

Each user has several important pieces of information defined about them.

1. Who the user is.
2. What group the user is in.
3. What environments the user can access.
4. What roles the user belongs to.

There are three primary tables that provide this information (See Figure 1).

- The F0092 is driven by user name and it contains information about the user and what kinds of access the user has.
- The F0093 is driven by user name and tells you what environments the user can access.
- The F95921 tells you what roles the user can assume. Note that the "Member Of" field contains the user or group ID and the "Member" field contains the role ID.

User security overrides group security, which overrides public security.

Any time you need to check for security, you need to follow the levels:

1. Check to see if security exists for the individual user. If it does, use those security settings.
2. If no user security exists, check to see if security exists for the user's group. If it does, use the group settings.
3. If no user or group security exists, check to see if security exists for *PUBLIC. If it does, then use those settings.
4. If no user, group, or *PUBLIC exists, the user doesn't have access.

The primary table for user/object security is F00950 – Security Workbench (Figure 2). The information presented here was determined by analyzing what P00950 does. Field FSSETY identifies the security type. There are two security types that are relevant to our task view discussion:

- A Solution Explorer Security
- 3 Application Security

To see all of the types on your system, look at UDC 98/TY.

Task Security

Next up we will take a look at the security associated with tasks. Task Views are the role-based menu sys-

tem in EnterpriseOne. Task Views are built recursively. You start with the list of Task Views the user can access. (The top level Task Views are the items listed when you click the Task View button.) When a task view is selected, you need to find all of that task's children.

In Figure 3, the selected Task View is "End User Tasks" and the items below it are its children. If you expand any of those items, you would find all of that item's children.

Please note that EnterpriseOne does not prevent you from setting up infinitely recursive task views. In fact, some of the base tasks under "OneWorld Menus" are infinitely recursive. The following is an example:

```

End User Tasks
  Task A
    Task 1
    Task 2
    Task A
      Task 1
      Task 2
      Task A
        to infinity...
    
```

Since Task A has itself as a child, you will never reach the end.

Task Security – Table Overview

There are several tables you need to know about to find. Figure 4 shows you the links between the tables and some of the fields you will need.

F9000 is the Task Master table. This table contains information about individual tasks. (task description, object name, form name, version,...) Different fields are filled in depending on the Task Type. UDC H90/TT gives you the different task types available. I performed several queries by task type to determine which fields were filled in for each

USER SECURITY - Object Sample Data												
F00950												
FSUSER	FSSETY	FSOBNM	FSSY	FSINSL	FSRUN	FSWYIN	FSA	FSCHNG	FSDLT	FSOBID	FSADDC	FSIOK
*PUBLIC	A			0	1	0	3	1	1	0	0	0
DEVELOPERSA				1	3	3	3	3	3	0	Y	3
*PUBLIC	3	*ALL		N	N	Y	Y	Y	Y	0	C	
*PUBLIC	3	P98OWSEC	H93	Y	N	Y	Y	Y	Y	0	C	
*PUBLIC	3	W98OWSECD			Y	Y	Y	Y	Y	0	C	
DEVELOPERS3		*ALL		Y	Y	Y	Y	Y	Y	0	C	
DEVELOPERS3		P98OWSEC	H93	Y	N	Y	Y	Y	Y	0	C	
DEVELOPERS3		W98OWSECD			Y	Y	Y	Y	Y	0	C	

Figure 2 – Object Sample Data

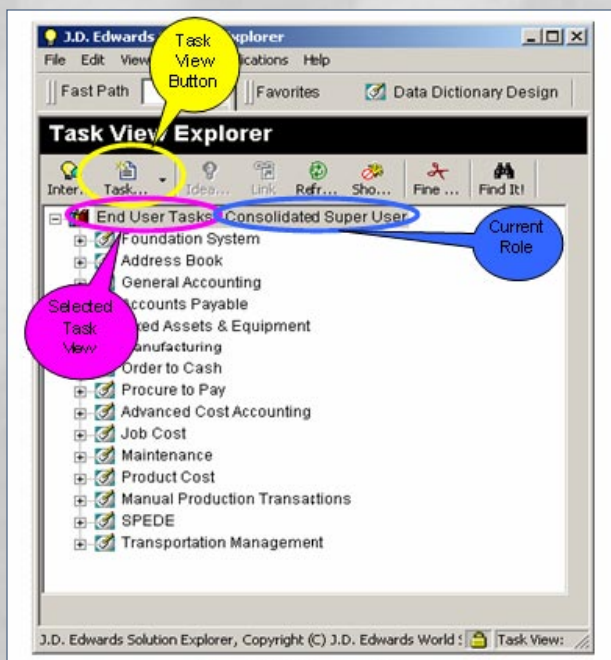


Figure 3 – End User Task View

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