

# Tips & Tricks

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Robert Dougherty

Senior Software Developer (VSE)

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# Agenda

1 Changes made to FAQs Online User Security in FAQs 5.1

2 Integration of FAQs Online Security with Top Secret Security

3 Sharing Two Tape Libraries with DYNAM

4 DYNACC Functions in DYNAM

5 New Feature for the Explore Report Writer

# Changes made to FAQs Online User Security in **FAQS 5.1**

# FAQS Online Security 5.1

## Changes to the Online Security

<u>SCTY Pre 5.1</u>	<u>SCTY 5.1</u>
Two options single User Id's	Two parts to the User Id
User ID: <ul style="list-style-type: none"><li>Options defined to individual user</li><li>Users with the same Job function either had to be set up with multiple User Id's or the User Id was shared</li><li>If a change was made, the User Id would have different security to others.</li></ul>	User ID: <ul style="list-style-type: none"><li>Unique to each online User</li></ul>
Model User ID: <ul style="list-style-type: none"><li>Allows for one User Id to be set up but if that User Id is changed or deleted the Modeled User Id's are also affected.</li></ul>	Profile: <ul style="list-style-type: none"><li>Shareable among one or more User Id's (Job functions)</li></ul>



# FAQS Online Security Pre - 5.1 - very congested

## Online Security of Previous Releases

```
VSE Machine
QWS3270 Edit View Options Tools Help
[Icons] | P 1 P 2 P 3 | abc

UNICENTER CA-FAQS/ASO SECURITY          DEA
IF ON, USER MUST BE IN OP MODE TO ISSUE POWER COMMAND
INTEGRITY CHECK TO AVOID CROSSING A MEMBER BOUNDARY
DISPLAY USERID IF ON / DISPLAY DEST INFORMATION IF OFF
DISABLE CURSOR SELECTION ON QUEUE DISPLAY
SPECIFY AUTHORIZED CLASSES - BLANK DENOTES ALL

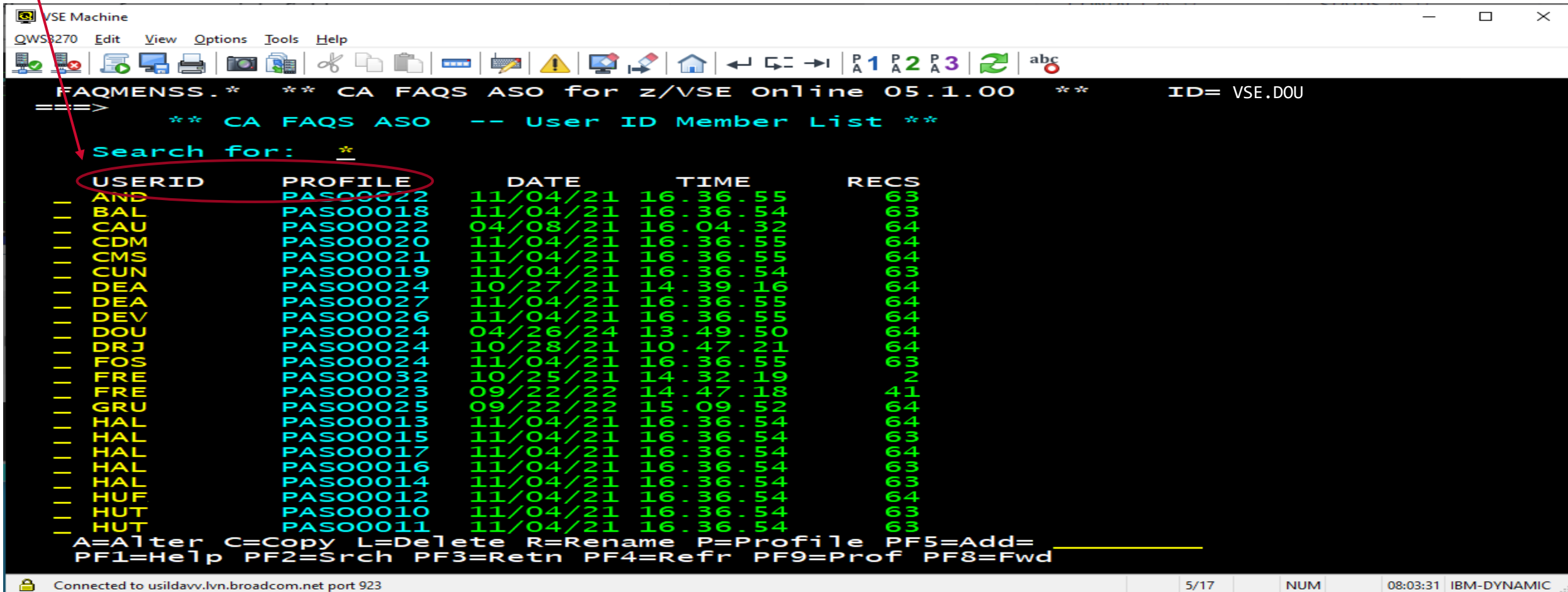
OP-MODE NEEDED ( - )
MEMBER RESPECT ( )
USERID / DEST ( )
DISABLE CURSOR ( )
QUEUE QUEUE MEMBER EDIT
RDR ( X ) ( X ) ( X )
LST ( X ) ( X ) ( X )
PUN ( X ) ( X ) ( X )
XMT ( X ) ( X ) ( X )
ACT ( X ) ( X ) ( X )

- JOB NAME ALL INCLUDE EXCLUDE JOBNAME JOBNAME JOBNAME JOBNAME
COMMAND ALLOW FSCRN CLASS JNAME COMMAND ALLOW COMMAND ALLOW
PALTER ( X ) ( X ) ( ) ( ) PACCOUNT ( X ) PINQUIRE ( X )
PDELETE ( X ) ( X ) ( ) ( ) PACT ( X ) PLOAD ( X )
PDISPLAY ( X ) ( X ) ( ) ( ) PBRDCST ( X ) PRESET ( X )
PHOLD ( X ) ( X ) ( ) ( ) PCANCEL ( X ) PRESTART ( X )
PRELEASE ( X ) ( X ) ( ) ( ) PDRAIN ( X ) PSETUP ( X )
POFFLOAD ( X ) ( X ) ( ) ( ) PEND ( X ) PSTART ( X )
QUEUE DISPLAY ( X ) ( ) ( X ) PFLUSH ( X ) PSTOP ( X )
PASSWORD DISPLAY PROTECTION ( X ) ( X ) PGO ( X ) PXMIT ( X )
MEMBER SCAN THRESHOLD SET
PF01=HELP PF03=END PF05=UPD PF07=BWD PF08=FWD

Connected to usildavv.lvn.broadcom.net port 923
2/19 NUM 08:00:46 IBM-DYNAMIC
```

# FAQS Online Security 5.1 (Current)

## Changes to the New Online Security

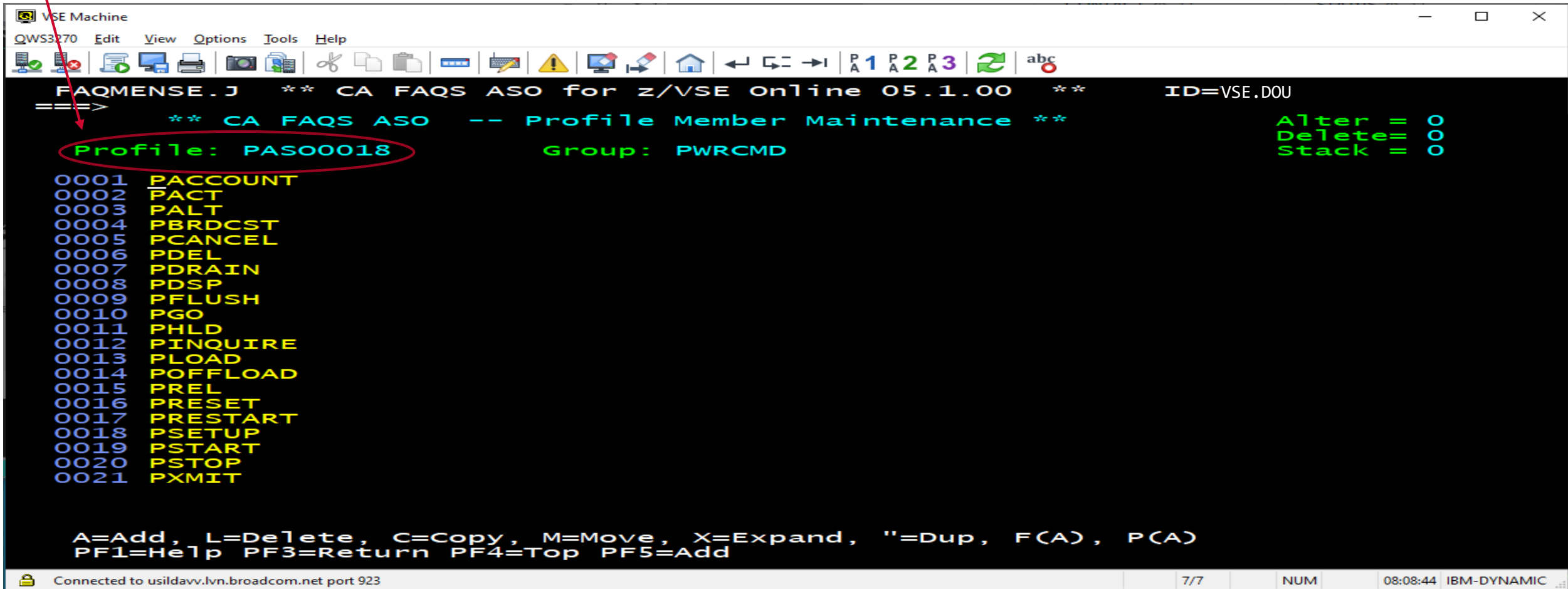


```
QWS3270 Edit View Options Tools Help
FAQMENSS.* ** CA FAQS ASO for z/VSE Online 05.1.00 ** ID= VSE.DOU
==> ** CA FAQS ASO -- User ID Member List **
Search for: *
USERID PROFILE DATE TIME RECS
-- AND PAS00022 11/04/21 16.36.55 63
-- BAL PAS00018 11/04/21 16.36.54 63
-- CAU PAS00022 04/08/21 16.04.32 64
-- CDM PAS00020 11/04/21 16.36.55 64
-- CMS PAS00021 11/04/21 16.36.55 64
-- CUN PAS00019 11/04/21 16.36.54 63
-- DEA PAS00024 10/27/21 14.39.16 64
-- DEA PAS00027 11/04/21 16.36.55 64
-- DEV PAS00026 11/04/21 16.36.55 64
-- DOU PAS00024 04/26/24 13.49.50 64
-- DRJ PAS00024 10/28/21 10.47.21 64
-- FOS PAS00024 11/04/21 16.36.55 63
-- FRE PAS00032 10/25/21 14.32.19 2
-- FRE PAS00023 09/22/22 14.47.18 41
-- GRU PAS00025 09/22/22 15.09.52 64
-- HAL PAS00013 11/04/21 16.36.54 64
-- HAL PAS00015 11/04/21 16.36.54 63
-- HAL PAS00017 11/04/21 16.36.54 64
-- HAL PAS00016 11/04/21 16.36.54 63
-- HAL PAS00014 11/04/21 16.36.54 63
-- HUF PAS00012 11/04/21 16.36.54 64
-- HUT PAS00010 11/04/21 16.36.54 63
-- HUT PAS00011 11/04/21 16.36.54 63
A=Alter C=Copy L=Delete R=Rename P=Profile PF5=Add=
PF1=Help PF2=Srch PF3=Retn PF4=Refr PF9=Prof PF8=Fwd
Connected to usildavv.lvn.broadcom.net port 923 5/17 NUM 08:03:31 IBM-DYNAMIC
```



# FAQS Online Security 5.1 (Current)

## Changes to the New Online Security



```
VSE Machine
QWS3270 Edit View Options Tools Help
FAQMENSE.J ** CA FAQS ASO for z/VSE online 05.1.00 ** ID=VSE.DOU
==>
** CA FAQS ASO -- Profile Member Maintenance ** Alter = 0
Delete = 0
Stack = 0
Profile: PASO0018 Group: PWRCMD
0001 PACCOUNT
0002 PACT
0003 PALT
0004 PBRDCST
0005 PCANCEL
0006 PDEL
0007 PDRAIN
0008 PDSP
0009 PFLUSH
0010 PGO
0011 PHLD
0012 PINQUIRE
0013 PLOAD
0014 POFFLOAD
0015 PREL
0016 PRESET
0017 PRESTART
0018 PSETUP
0019 PSTART
0020 PSTOP
0021 PXMIT

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add

Connected to usildavv.lvn.broadcom.net port 923 7/7 NUM 08:08:44 IBM-DYNAMIC
```

# FAQS Online Security 5.1

## Changes to the New Online Security

```
VSE Machine
CWS3270 Edit View Options Tools Help
FAQMENSE.j ** CA FAQS ASO for z/VSE Online 05.1.00 ** ID=VSE.DOU
==>
** CA FAQS ASO -- Profile Member Maintenance **
Profile: PASO0018 Group: PWRCMD
Select from the following Group options:
POWER cmd - op mode only ( - )
Allow PACT command ( - )
PALTER by queue classes ( - )
Allow PBRDCST command ( - )
Allow PDELETE command ( X )
PDELETE by name/dest id ( - )
Allow PDISPLAY command ( - )
Allow PFLUSH command ( - )
Allow PHOLD command ( - )
PHOLD by name/dest id ( - )
Allow PLOAD command ( - )
Allow PRELEASE command ( - )
PRELEASE by name/dest id ( - )
Allow PRESTART command ( - )
Allow PSETUP command ( - )
Allow PSTOP command ( - )
Allow PXMIT command ( - )
Allow PACCOUNT command ( - )
Allow PALTER command ( - )
PALTER by name/dest id ( - )
Allow PCANCEL command ( - )
PDELETE by queue classes ( - )
Allow PDRAIN command ( - )
Allow PEND command ( - )
Allow PGO command ( - )
PHOLD by queue classes ( - )
Allow PINQUIRE command ( - )
Allow POFFLOAD command ( - )
PRELEASE by queue classe ( - )
Allow PRESET command ( - )
Allow PSEGMENT command ( - )
Allow PSTART command ( - )
Allow PVARY command ( - )
PF3=Return
Connected to usildavv.lvn.broadcom.net port 923 10/30 NUM 08:11:28 IBM-DYNAMIC
```

# FAQS Online Security Pre - 5.1 - very congested

## Online Security from Previous Releases

```
VSE Machine
QWS3270 Edit View Options Tools Help
[Icons] | P 1 P 2 P 3 | abc

UNICENTER CA-FAQS/ASO SECURITY          DEA
IF ON, USER MUST BE IN OP MODE TO ISSUE POWER COMMAND
INTEGRITY CHECK TO AVOID CROSSING A MEMBER BOUNDARY
DISPLAY USERID IF ON / DISPLAY DEST INFORMATION IF OFF
DISABLE CURSOR SELECTION ON QUEUE DISPLAY
SPECIFY AUTHORIZED CLASSES - BLANK DENOTES ALL

OP-MODE NEEDED ( - )
MEMBER RESPECT ( )
USERID / DEST ( )
DISABLE CURSOR ( )
QUEUE QUEUE MEMBER EDIT
RDR ( X ) ( X ) ( X )
LST ( X ) ( X ) ( X )
PUN ( X ) ( X ) ( X )
XMT ( X ) ( X ) ( X )
ACT ( X ) ( X ) ( X )

- JOB NAME ALL INCLUDE EXCLUDE JOBNAME JOBNAME JOBNAME JOBNAME JOBNAME
COMMAND ALLOW FSCRN CLASS JNAME COMMAND ALLOW COMMAND ALLOW
PALTER ( X ) ( X ) ( ) ( ) PACCOUNT ( X ) PINQUIRE ( X )
PDELETE ( X ) ( X ) ( ) ( ) PACT ( X ) PLOAD ( X )
PDISPLAY ( X ) ( X ) ( ) ( ) PBRDCST ( X ) PRESET ( X )
PHOLD ( X ) ( X ) ( ) ( ) PCANCEL ( X ) PRESTART ( X )
PRELEASE ( X ) ( X ) ( ) ( ) PDRAIN ( X ) PSETUP ( X )
POFFLOAD ( X ) ( X ) ( ) ( ) PEND ( X ) PSTART ( X )
QUEUE DISPLAY ( X ) ( ) ( X ) PFLUSH ( X ) PSTOP ( X )
PASSWORD DISPLAY PROTECTION ( X ) ( X ) PGO ( X ) PXMIT ( X )
MEMBER SCAN THRESHOLD SET
PF01=HELP PF03=END PF05=UPD PF07=BWD PF08=FWD

Connected to usildavv.lvn.broadcom.net port 923
2/19 NUM 08:00:46 IBM-DYNAMIC
```

# New SCTY setup: **PROFILE**

# FAQS Online Security 5.1

## Profile Id Set up

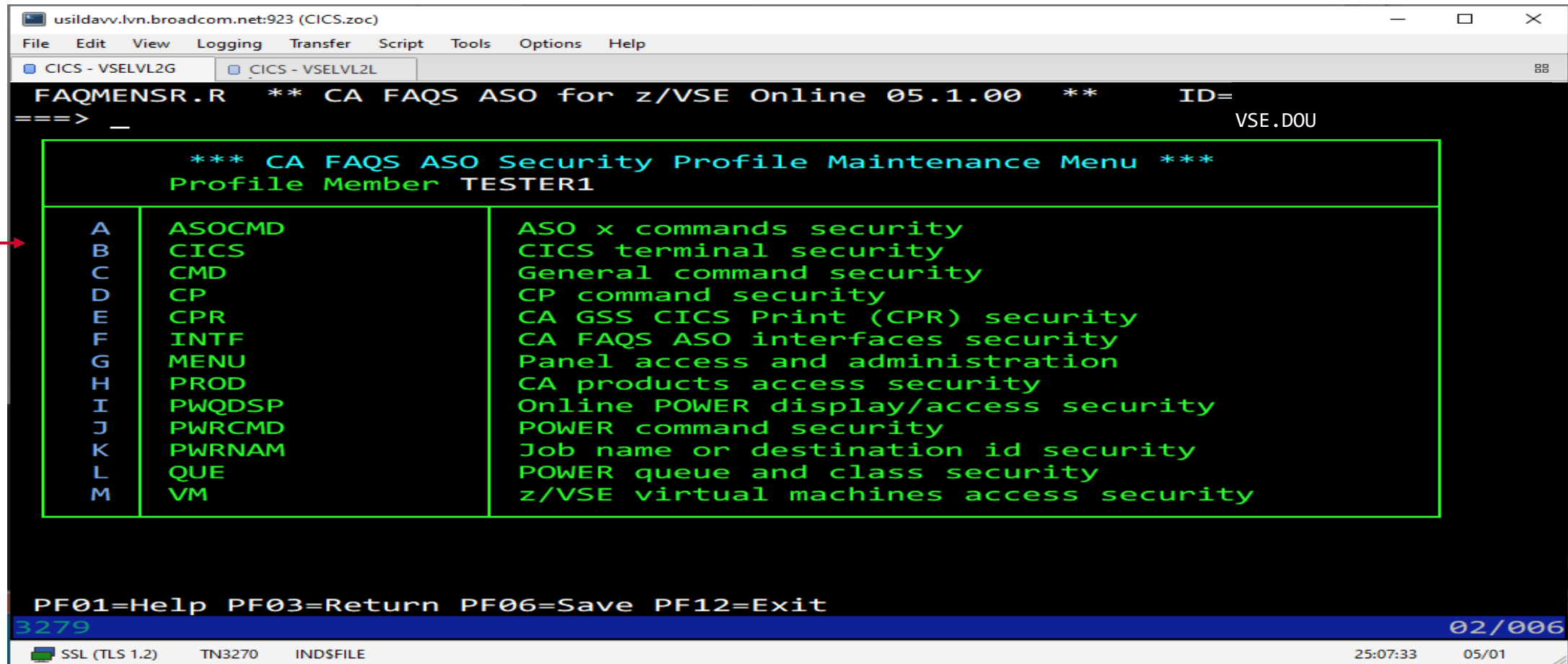
- Access FAQS Online Security with FAQS cmd SCTY
- Use PF9 to bring up the Profiles
- To add a new PROFILE enter it In the PF5=ADD= field

```
_ PAS00029      05/16/24 17.54.53    124
_ PAS00030      05/16/24 17.54.53    124
A=Alter C=Copy L=Delete R=Rename
PF1=Help PF2=Srch PF3=Retn PF4=Refr PF9=User PF7=Bwd PF8=Fwd
PF5=Add= TESTER1
```

# FAQS Online Security 5.1

## Profile Id Set up

Type the Letter or use the cursor for appropriate field.



```
usildavv.lvn.broadcom.net:923 (CICS.zoc)
File Edit View Logging Transfer Script Tools Options Help
CICS - VSELVL2G CICS - VSELVL2L
FAQMENS.R ** CA FAQs ASO for z/VSE Online 05.1.00 ** ID=
====> _ VSE.DOU

*** CA FAQs ASO Security Profile Maintenance Menu ***
Profile Member TESTER1

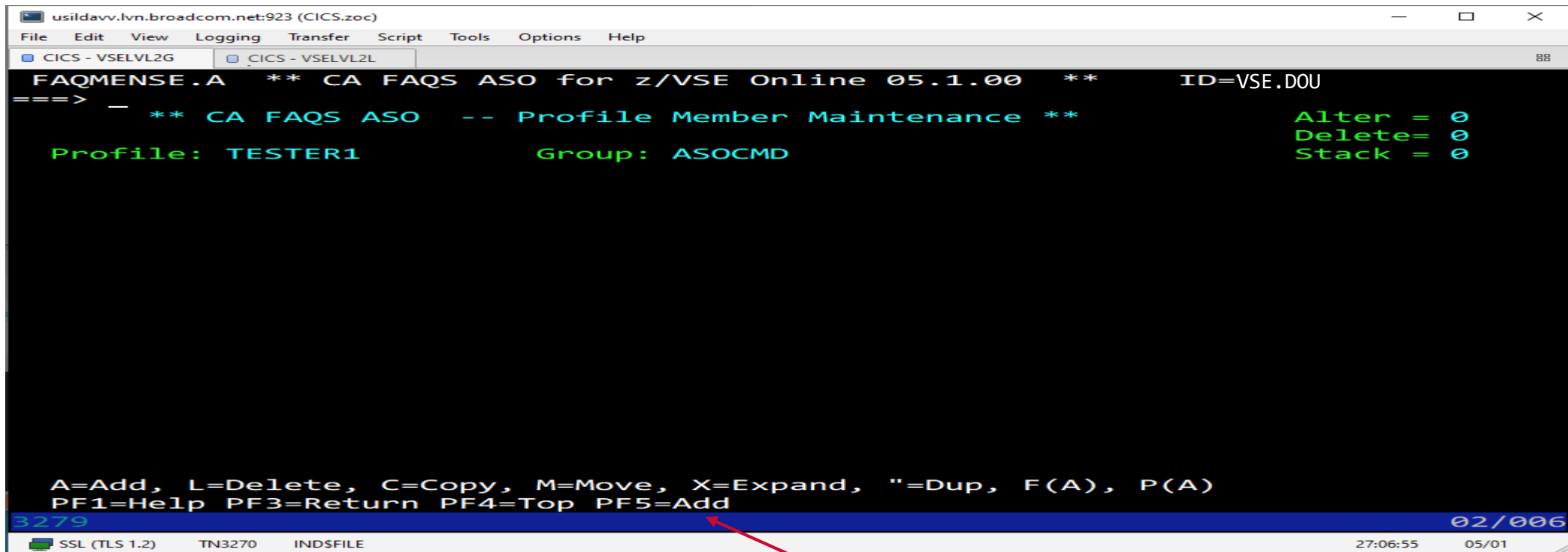
A ASOCMD ASO x commands security
B CICS CICS terminal security
C CMD General command security
D CP CP command security
E CPR CA GSS CICS Print (CPR) security
F INTF CA FAQs ASO interfaces security
G MENU Panel access and administration
H PROD CA products access security
I PWQDSP Online POWER display/access security
J PWRCMD POWER command security
K PWRNAM Job name or destination id security
L QUE POWER queue and class security
M VM z/VSE virtual machines access security

PF01=Help PF03=Return PF06=Save PF12=Exit
3279 02/006
SSL (TLS 1.2) TN3270 IND$FILE 25:07:33 05/01
```

# FAQS Online Security 5.1

## Profile Id Set up – A ASOCMD

Initially this will be a empty  Need to PF5 to add an entry



```
usildavv.lvn.broadcom.net:923 (CICS.zoc)
File Edit View Logging Transfer Script Tools Options Help
CICS - VSELVL2G CICS - VSELVL2L 88
FAQMENSE.A ** CA FAQs ASO for z/VSE Online 05.1.00 ** ID=VSE.DOU
===> - ** CA FAQs ASO -- Profile Member Maintenance ** Alter = 0
                                         Delete= 0
Profile: TESTER1          Group: ASOCMD          Stack = 0

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add
3279 02/006
SSL (TLS 1.2) TN3270 INDSFILE 27:06:55 05/01
```

# FAQS Online Security 5.1

## Profile Id Set up – A ASOCMD PF5 = ADD

- Chose an option for the Users of this PROFILE
- Only one option set at a time

```
usildavv.lvn.broadcom.net:923 (CICS.zoc)
File Edit View Logging Transfer Script Tools Options Help
CICS - VSELVL2G CICS - VSELVL2L
FAQMENSE.a ** CA FAQS ASO for z/VSE Online 05.1.00 ** ID=VSE.DOU
===>
** CA FAQS ASO -- Profile Member Maintenance **

Profile: TESTER1      Group: ASOCMD

Select from the following Group options:
Allow priority alter  (  - )
Job Statistics Display (  - )
Console Action Inquiry (  - )
Priority Inquiry      (  X )
Stack/Clear Replies  (  - )
ASO Start of Partition (  - )
ASO Status Inquiry   (  - )
ASO Stop of Partition (  - )

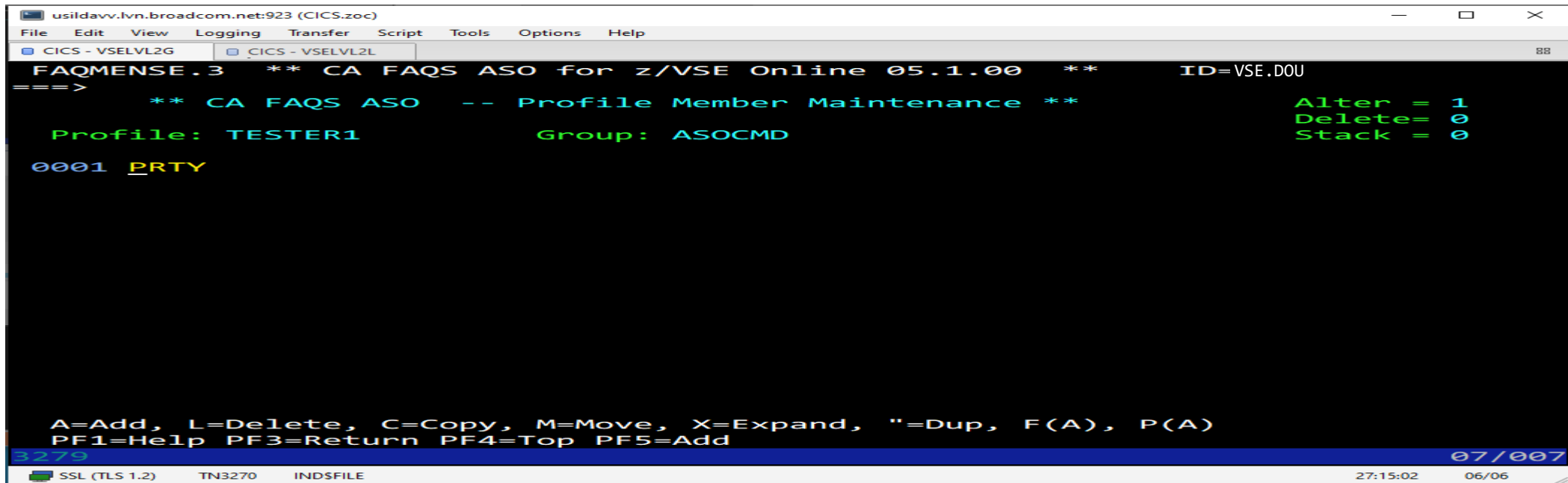
PF3=Return
3279 12/030
SSL (TLS 1.2) TN3270 INDSFILE 27:11:26 29/11
```



# FAQS Online Security 5.1

## Profile Id Set up – A ASOCMD PF5 = ADD Return

- On return the option selected is now displayed
- PF5 to ADD additional options for this PROFILE
- When complete PF3=Return. The updates still have not been saved yet!



The screenshot shows a CICS terminal window with the following content:

```
usildavv.lvn.broadcom.net:923 (CICS.zoc)
File Edit View Logging Transfer Script Tools Options Help
CICS - VSELVL2G CICS - VSELVL2L
FAQMENSE.3 ** CA FAQS ASO for z/VSE Online 05.1.00 ** ID=VSE.DOU
==>
** CA FAQS ASO -- Profile Member Maintenance ** Alter = 1
Profile: TESTER1 Group: ASOCMD Delete = 0
0001 PRTY Stack = 0

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add
3279 07/007
SSL (TLS 1.2) TN3270 INDSFILE 27:15:02 06/06
```

# FAQS Online Security 5.1

## Profile Maintenance Panel

- “Changed!” is highlighted
- PF6=SAVE (changes are now saved)

```
usildavv.lvn.broadcom.net:923 (CICS.zoc)
File Edit View Logging Transfer Script Tools Options Help
CICS - VSELVL2G CICS - VSELVL2L
FAQMENSR.3 ** CA FAQS ASO for z/VSE Online 05.1.00 ** ID= VSE.DOU
====>

*** CA FAQS ASO Security Profile Maintenance Menu ***
Profile Member TESTER1 Changed!

A ASOCMD ASO x commands security
B CICS CICS terminal security
C CMD General command security
D CP CP command security
E CPR CA GSS CICS Print (CPR) security
F INTF CA FAQS ASO interfaces security
G MENU Panel access and administration
H PROD CA products access security
I PWQDSP Online POWER display/access security
J PWRCMD POWER command security
K PWRNAM Job name or destination id security
L QUE POWER queue and class security
M VM z/VSE virtual machines access security

PF01=Help PF03=Return PF06=Save PF12=Exit
3279 07/005
SSL (TLS 1.2) TN3270 INDSFILE 27:25:58 04/06
```

# FAQS Online Security 5.1

## Profile Maintenance Panel Saved Updates

At the bottom of the panel you will see the confirmation the update has been successful

```
usildavv.lvn.broadcom.net:923 (CICS.zoc)
File Edit View Logging Transfer Script Tools Options Help
CICS - VSELVL2G CICS - VSELVL2L 88
FAQMNSR.6 ** CA FAQs ASO for z/VSE Online 05.1.00 ** ID= VSE.DOU
====>

*** CA FAQs ASO Security Profile Maintenance Menu ***
Profile Member TESTER1

A ASOCMD ASO x commands security
B CICS CICS terminal security
C CMD General command security
D CP CP command security
E CPR CA GSS CICS Print (CPR) security
F INTF CA FAQs ASO interfaces security
G MENU Panel access and administration
H PROD CA products access security
I PWQDSP Online POWER display/access security
J PWRCMD POWER command security
K PWRNAM Job name or destination id security
L QUE POWER queue and class security
M VM z/VSE virtual machines access security

Saved Profile Member

PF01=Help PF03=Return PF06=Save PF12=Exit
3279 07/005
SSL (TLS 1.2) TN3270 INDSFILE 27:35:55 04/06
```

# FAQS Online Security 5.1

## Refresh Profile Member List

PF4 to refresh the Profile List. Note TESTER1 Profile

```
usildavv.lvn.broadcom.net:923 (CICS.zoc)
File Edit View Logging Transfer Script Tools Options Help
CICS - VSELVL2G CICS - VSELVL2L
FAQMENSS.8 ** CA FAQS ASO for z/VSE Online 05.1.00 ** ID=VSE.DOU
===>
** CA FAQS ASO -- Profile Member List **
Search for: *
PROFILE          DATE          TIME          RECS
-- PASO0031      11/04/21     16.36.55      128
-- PASO0032      11/04/21     16.36.55      122
-- PASO0033      11/04/21     16.36.55      124
-- PASO0034      11/04/21     16.36.55      125
-- PASO0035      11/04/21     16.36.55      120
-- PASO0036      11/04/21     16.36.55      125
-- PASO0037      11/04/21     16.36.55      127
-- PASO0038      02/02/22     13.51.24      140
-- PASO0039      06/29/12     11.05.42      127
-- TESTER1       05/14/24     11.29.59       2
A=Alter C=Copy L=Delete R=Rename PF5=Add= TESTER1
PF1=Help PF2=Srch PF3=Retn PF4=Refr PF9=User PF7=Bwd
3279 05/017
SSL (TLS 1.2) TN3270 INDSFILE 27:50:39 16/04
```

# New SCTY setup

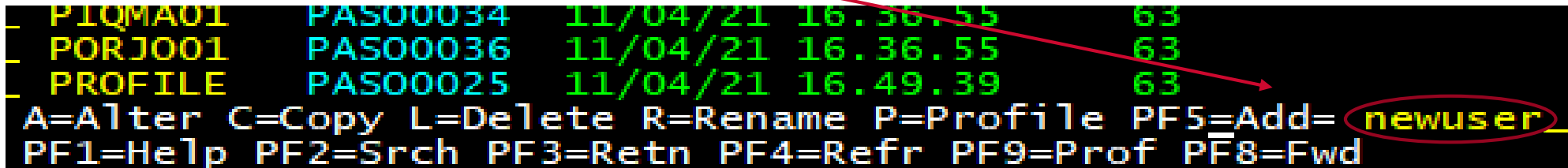
## USER ID

# FAQS Online Security 5.1

## ADD a New FAQs User Id

To Add a new User Id:

- PF5=ADD field
- Enter the new name here then PF5



```
PIQMA01  PAS00034  11/04/21  16.36.55  63
PORJ001  PAS00036  11/04/21  16.36.55  63
PROFILE  PAS00025  11/04/21  16.49.39  63
A=Alter C=Copy L=Delete R=Rename P=Profile PF5=Add= newuser_
PF1=Help PF2=Srch PF3=Retn PF4=Refr PF9=Prof PF8=Fwd
```

# FAQS Online Security 5.1

## User Id Set up – defining the new FAQS User Id.

```
usildavv.lvn.broadcom.net:923 (CICS.zoc)
File Edit View Logging Transfer Script Tools Options Help
CICS - VSELVL2G CICS - VSELVL2L 88
FAQMENS.D.0 ** CA FAQS ASO for z/VSE Online 05.1.00 ** ID=VSE.DOU
===>

*** CA FAQS ASO Security User id Maintenance Menu ***
User id: NEWUSER Profile: TESTER1_ Changed!
Password: Password expire date: 0

A CMD Online command line function keys
B DSP POWER/DISPLAY function keys
C INTF Online interface parameters

PF01=Help PF03=Return PF06=Save PF12=Exit
3279 05/051
SSL (TLS 1.2) TN3270 INDSFILE 02:18:09 50/04
```

# FAQS Online Security 5.1

## Adding the Options

How to use the functions:

- Pick option, example: A (add)
- Either cursor or type the letter
  - A CMD            Online command line function keys
  - PF5=ADD to add the new options for this User Id

```
A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)  
PF1=Help PF3=Return PF4=Top PF5=Add
```

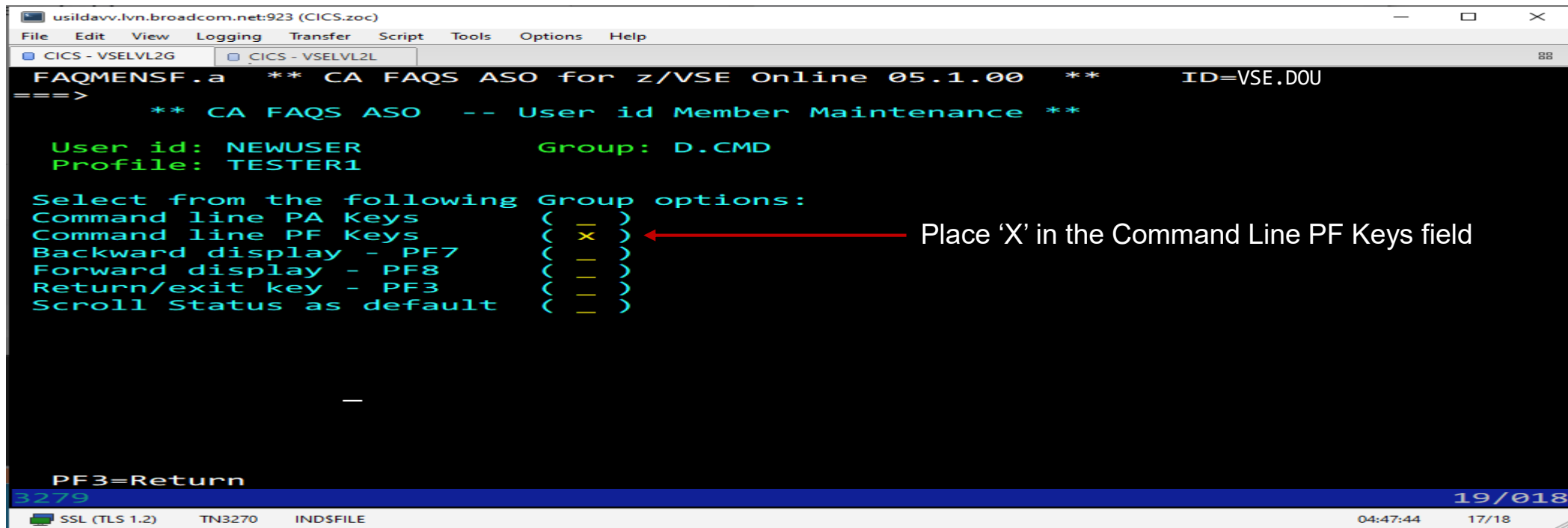


# FAQS Online Security 5.1

## Adding the Group Options

This panel show options for this particular group. In this case the FAQS Session commands.

We are going to set up PF12 to be the RETRIEVE key



```
usildavv.lvn.broadcom.net:923 (CICS.zoc)
File Edit View Logging Transfer Script Tools Options Help
CICS - VSELVL2G CICS - VSELVL2L 88
FAQMENSF.a ** CA FAQS ASO for z/VSE Online 05.1.00 ** ID=VSE.DOU
===>
** CA FAQS ASO -- User id Member Maintenance **

User id: NEWUSER          Group: D.CMD
Profile: TESTER1

Select from the following Group options:
Command line PA Keys      (  -  )
Command line PF Keys     (  X  )
Backward display - PF7   (  -  )
Forward display - PF8    (  -  )
Return/exit key - PF3    (  -  )
Scroll Status as default (  -  )

PF3=Return
3279 19/018
SSL (TLS 1.2) TN3270 INDSFILE 04:47:44 17/18
```

# FAQS Online Security 5.1

## Define the Command Line PF Keys

After hitting enter a second panel is displayed that allows for further clarification for the option:

- Set the PF Key to 12
- Set the command to RETRIEVE
- Set the execution to Delay

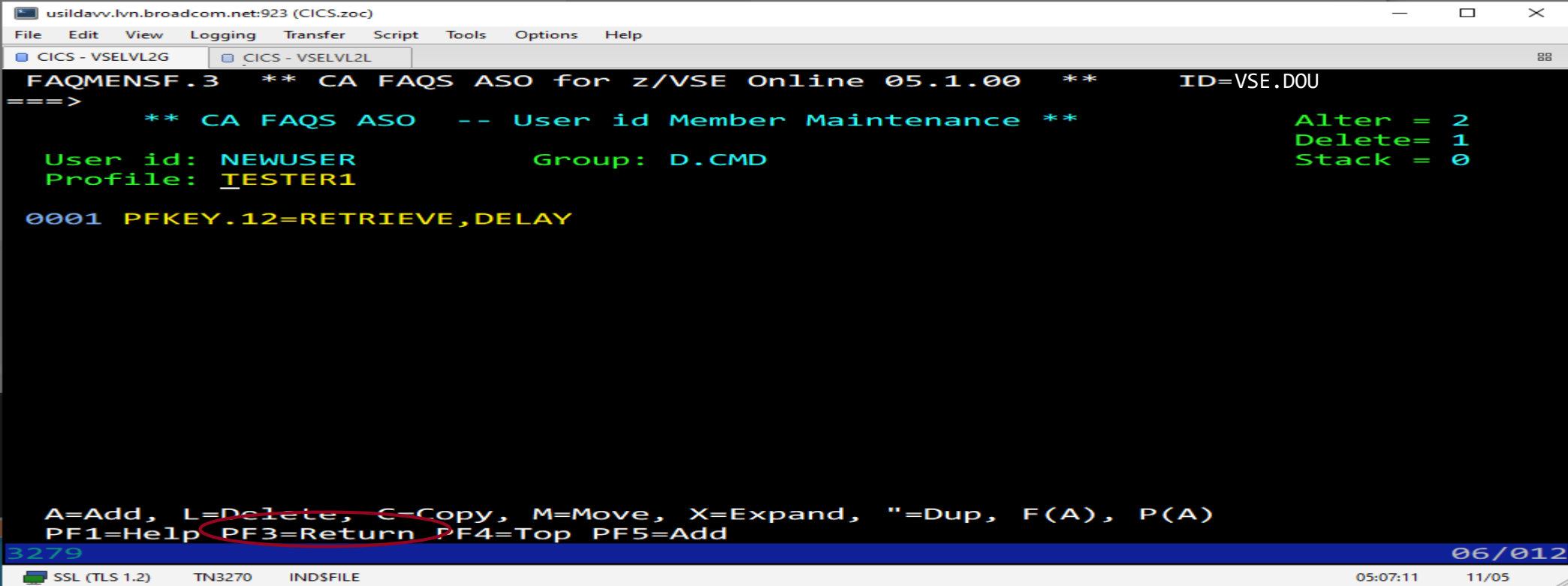
```
** CA FAQS ASO -- User id Member Maintenance **  
  
User id: NEWUSER          Group: D.CMD  
Profile: TESTER1  
  
Enter command to execute when PF key 12 is entered:  
retrieve_____ Delay execution (x)
```

# FAQS Online Security 5.1

## Panel display after PF Key defined

From here you can continue to add FAQS Session PF keys as needed

- Note that the changes have not been saved yet. When finished PF3 Return



The screenshot shows a terminal window titled "usildavv.lvn.broadcom.net:923 (CICS.zoc)". The window contains the following text:

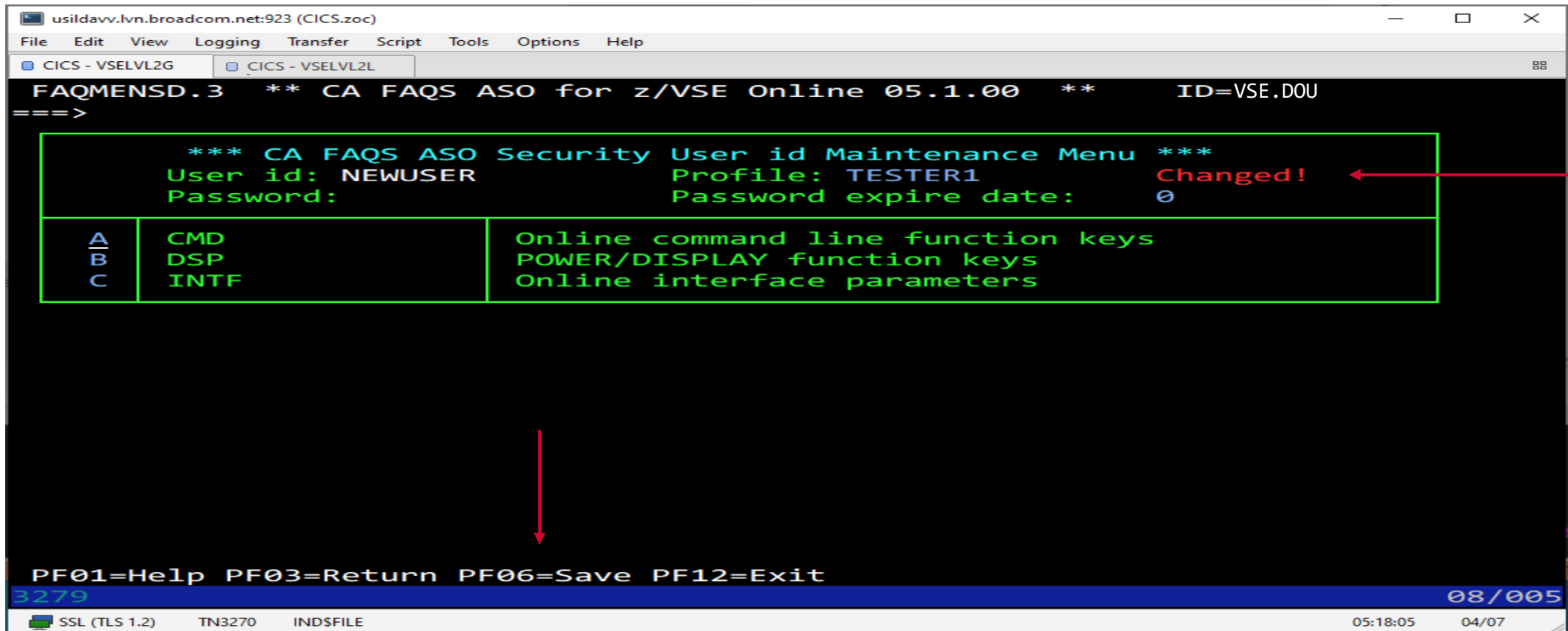
```
FAQMENSF.3  ** CA FAQS ASO for z/VSE Online 05.1.00  **      ID=VSE.DOU
====>
      ** CA FAQS ASO  -- User id Member Maintenance  **          Alter = 2
                                                                    Delete= 1
User id: NEWUSER          Group: D.CMD                          Stack = 0
Profile: TESTER1
0001 PFKEY.12=RETRIEVE,DELAY
```

A red arrow points to the line "0001 PFKEY.12=RETRIEVE,DELAY". At the bottom of the terminal, there is a legend: "A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A) PF1=Help PF3=Return PF4=Top PF5=Add". The "PF3=Return" part is circled in red. The terminal also shows a status bar at the bottom with "3279" on the left, "06/012" on the right, and "SSL (TLS 1.2) TN3270 INDSFILE" and "05:07:11 11/05" at the very bottom.

# FAQS Online Security 5.1

## Security User id maintenance Menu

Note the “**Changed!**” Comment. PF6=SAVE to update the changes



```
usildavv.lvn.broadcom.net:923 (CICS.zoc)
File Edit View Logging Transfer Script Tools Options Help
CICS - VSELVL2G CICS - VSELVL2L
FAQMENS.D.3 ** CA FAQS ASO for z/VSE Online 05.1.00 ** ID=VSE.DOU
===>
*** CA FAQS ASO Security User id Maintenance Menu ***
User id: NEWUSER Profile: TESTER1 Changed!
Password: Password expire date: 0
A CMD Online command line function keys
B DSP POWER/DISPLAY function keys
C INTF Online interface parameters

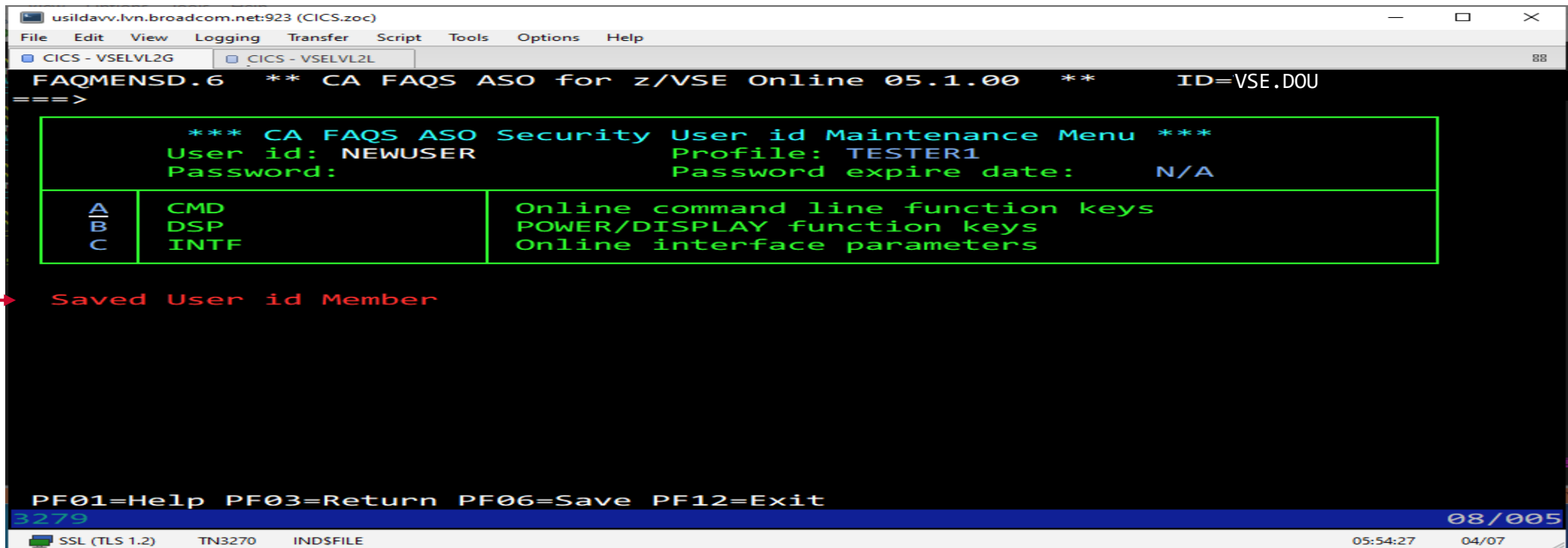
PF01=Help PF03=Return PF06=Save PF12=Exit
3279 08/005
SSL (TLS 1.2) TN3270 INDSFILE 05:18:05 04/07
```

# FAQS Online Security 5.1

## Security User id Maintenance Menu

Note the “**Saved User id Member**” Comment

- Continue with further changes or PF3=RETURN
- Make sure you have done the PF6=SAVE.



```
usildavv.lvn.broadcom.net:923 (CICS.zoc)
File Edit View Logging Transfer Script Tools Options Help
CICS - VSELVL2G CICS - VSELVL2L 88
FAQMENS.D.6 ** CA FAQS ASO for z/VSE Online 05.1.00 ** ID=VSE.DOU
===>
*** CA FAQS ASO Security User id Maintenance Menu ***
  User id: NEWUSER          Profile: TESTER1
  Password:                Password expire date: N/A
  A  CMD                   Online command line function keys
  B  DSP                   POWER/DISPLAY function keys
  C  INTF                  Online interface parameters
Saved User id Member
PF01=Help PF03=Return PF06=Save PF12=Exit
3279 08/005
SSL (TLS 1.2) TN3270 INDSFILE 05:54:27 04/07
```

# FAQS Online Security 5.1

## User ID Member List – Displays the new User

To create User Id's that will use the same TESTER1 Profile

Note:

- For NEWUSER, PF12 was set to RETRIEVE but for NEWUSER3 they could have PF9 set to RETRIEVE
- PROFILE security would be the same for both users

```
** CA FAQS ASO -- User ID Member List **  
Search for: NEW*  
USERID    PROFILE    DATE      TIME      RECS  
_ NEWUSER  TESTER1    05/15/24  13.38.25  2
```

# FAQS/ASO 5.1 SECURITY

Using Top Secret Security for

FAQS User's

# Using Top Secret Security

## Implementing Top Secret Security in FAQs

Knowledge of how to use Top Secret

- Admin capabilities for building Top Secret FAQs User's/Profiles/RDT & Facility ACIDS
- 

Run a FAQs conversion Utility

- Creates the basic info for the FAQs Top Secret User's.
- 

Update the Top Secret files with the FAQs User security information.

- Build:
  - User ACIDS
  - Profile ACIDS
  - RDT ACIDS
  - Facility ACIDS



# Using Top Secret Security

## Implement Top Secret Security in FAQs - continued

Change DCMTDRV0 to activate Top Secret Security

- Make sure you have a User than can access the DCMTDRV0 panel

---

RE-IPL VSE

---

Restart the FAQs Jobs

- May need to change the // ID USER card in the JCL

Top Secret Security is now active for FAQs

# Using Top Secret Security

## Manuals helpful for implementation of FAQs Top Secret Security

The following manuals will be helpful

- GSS For VSE Getting Started Guide  
Chapter 9
- FAQs/ASO for VSE & FAQs/PCS for VSE Installation Guide  
Appendix C
- FAQs/PCS for VSE Implementation Guide  
Chapter 6
- Top Secret Manuals

# FAQS Top Secret Security

## Convert the current FAQS Security to Top Secret format

Run a Utility called CAASOCNV

```
// JOB CAASOCNV CONVERT TO NEW FAQS ASO 05.1.00 SECURITY
* * THIS IS A SAMPLE VSE JOBSTREAM FOR CONVERSION TO THE NEW
* * FAQS ASO SECURITY INTERFACE. FAQS ASO NOW SUPPORTS
* * TOP SECRET AS WELL AS ITS OWN EXTENDED SECURITY.
* * For customers running Top Secret, specify:
// PAUSE Conversion is next..
// EXEC REXXBAT,PARM='FAQSSCNV TSS=YES'
/*
```

We will be using the default Top Secret PROFILE name of [PASOxxxx](#) and default Department name of [ASODEPT](#).

See [FAQS ASO & PCS Installation Guide Appendix C page 112-122](#)

# FAQS Top Secret Security

## Convert the current FAQS Security to Top Secret format – Continued

After completion of the Conversion Job

- Several Jobs will be created and left in the POWER RDR Que
- These Jobs are Top Secret RESOURCE definitions of the currently defined FAQS Users
  - Used as input to Top Secret.

```
READER QUEUE    P D C S
ASOUSERS 29354 3 H 0
PASO0025 29355 3 H 0
PASO0023 29356 3 H 0
PASO0033 29357 3 H 0
PASO0024 29358 3 H 0
```

# FAQS Top Secret Security

## PROFILE RESOURCES Sample JCL

Here is a sample of the FAQS PROFILE JCL from the Conversion run

```
// EXEC TSSCMNDB
TSS CRE(PASO0025) NAME('ASO PROFILE - PASO0025') TYPE(PROFILE) DEPT(ASODEPT)
TSS ADD(PASO0025) GAP
TSS PER(PASO0025) CACMD(ASO.$<LOCK>)
TSS PER(PASO0025) CACMD(ASO.$PROFILE.PASO0025)
TSS PER(PASO0025) CACMD(ASO.ASOCMD.J)
TSS PER(PASO0025) CACMD(ASO.CICS.TERM)
TSS PER(PASO0025) CACMD(ASO.CMD.AO)
TSS PER(PASO0025) CACMD(GSS.PANEL.FAQ)
TSS PER(PASO0025) CACMD(ASO.ZPROFILE.PASO0025)
TSS REV(PASO0025) CACMD(ASO.$<LOCK>)
/*
```

# FAQS Top Secret Security

## USER ID RESOURCES Sample JCL

Here is a sample of the User Id JCL from the Conversion run

```
// EXEC TSSCMNDB  
TSS ADD(FRED01) PROFILE(PASO0023)  
TSS ADD(DOU) PROFILE(PASO0024)  
TSS ADD(ROB) PROFILE(PASO0024)  
TSS ADD(JEFF) PROFILE(PASO0033)  
TSS ADD(PROFILE) PROFILE(PASO0025)  
/*
```

# FAQS Top Secret Security

## RESOURCES

The JCL created are the Top Secret RESOURCES that FAQS & GSS use to control security.

PCS RESOURCES

PCS Implementation Guide Chapter 6

GSS RESOURCES

GSEDIT RESOURCES

GSPDSU RESOURCES

GSSUTIL RESOURCES

DCMTDRV0 RESOURCES

CPR RESOURCES

Top Secret Resources

GSS Getting Started Guide Chapter 9 page 9-3 to 9.10

# FAQS Top Secret Security

## DEPARTMENT setup

The FAQS Top Secret security requires it's own Department. The Default is ASODEPT.

Following is a sample: See [FAQS ASO & PCS Installation Guide - Appendix C, page 115](#)

```
// EXEC TSSCMNDB
TSS DELETE(ASODEPT)
TSS CREATE(ASODEPT) NAME('FAQS USERS DEPT') TYPE(DEPT)
TSS ADD(ASODEPT) CACMD(ASO.)
TSS ADD(ASODEPT) CACMD(GSS.)
TSS ADD(ASODEPT) CACMD(PCS.)
TSS DELETE(FAQS51)
TSS CREATE(FAQS51) NAME('FAQS PARTITION ACID') TYPE(USER) -
    FAC(BATCH) PAS(NOPW,0) DEPT(ASODEPT) MASTFAC(FAQS)
TSS DELETE(GSS)
TSS CREATE(GSS) NAME('GSS PARTITION ACID') TYPE(USER) -
    FAC(BATCH) PAS(NOPW,0) DEPT(ASODEPT) MASTFAC(GSS)
```



# FAQS Top Secret Security

## RDT setup

If securing PDS DSN's, the following Resource classes need to be created:

- GSPDSFIL, GSPDSTYP & GSPDSMEM

Following is a sample:

```
// EXEC TSSCMNDB
TSS REMOVE(RDT) RESCLASS(GSPDSFIL)
TSS ADD(RDT) RESCLASS(GSPDSFIL) RESCODE(05) MAXLEN(44) -
ATTR(GENERIC, LONG, MASK) ACLST(NONE, READ, WRITE, ALL)
TSS REMOVE(RDT) RESCLASS(GSPDSTYP)
TSS ADD(RDT) RESCLASS(GSPDSTYP) RESCODE(04) MAXLEN(11) -
ATTR(GENERIC, LONG, MASK) -
ACLST(NONE, READ, WRITE, EXECUTE=0040, ALL)
TSS REMOVE(RDT) RESCLASS(GSPDSMEM)
TSS ADD(RDT) RESCLASS(GSPDSMEM) RESCODE(03) MAXLEN(20) -
ATTR(GENERIC, LONG, MASK) -
ACLST(NONE, READ, WRITE, EXECUTE=0040, ALL)
```

See [GSS for VSE Getting Started Guide – Chapter 9-19](#)  
[FAQS ASO & PCS Installation Guide – Appendix C page 113](#)

# FAQS Top Secret Security

## FACILITY setup

FAQS Top Secret security requires two FACILITY's to be set up: GSS & FAQS

Following is a sample: See [GSS for VSE Getting Started Guide – Chapter 9](#)

```
// EXEC TSSPARM
* GSS FACILITY SECURITY OPTIONS
FACILITY(USER0=NAME=GSS)
FACILITY(GSS=ID=0,PGM=DCMTDRIV,MODE=FAIL)
FACILITY(GSS=MULTIUSER,NOABEND,TRACE,ASUBM,RES)
FACILITY(GSS=LCFCMD)
* FAQSMAN FACILITY SECURITY OPTIONS
FACILITY(USER1=NAME=FAQS)
FACILITY(FAQS=ID=1,PGM=FAQS*,MODE=FAIL)
FACILITY(FAQS=MULTIUSER,NOABEND,TRACE,ASUBM,RES)
FACILITY(FAQS=LCFCMD)
```

An IPL is required after the TSSPARM update.

For a description of the FACILITY parms. See [FAQS ASO & PCS Installation Guide Appendix C page 112](#)

# FAQS Top Secret Security

## Time to IPL

Upon successful completion:

IPL is required

This will implement all of the Top Secret changes

Final changes are required to the DCMTDRV0 panel and the FAQS Jobs:

This informs GSS & FAQS to use Top Secret security

# FAQS Top Secret Security

## Final Changes to set up GSS & FAQS to use Top Secret Security

If FAQS ASO is in use, this menu can be accessed by entering “.P=DCMTDRV0” on the online FAQS ASO command line or by using the OLTP Transaction “DCMO”.

From the DCMTDRV0 menu,

1. Select option **G** – GSS Config.
2. Select option **S** – GSS System Options.
3. Select option **A** – GSEDIT/Security Configuration.
4. Change the fields under the “Use Topsecret for VSE for:”  
Command/PDS access  
Library checking  
IMOD checking  
To ‘Y’ as wanted. Typically all three will be changed to ‘Y’
5. PF5 to Update the panel.

Sample of screen on next slide.

Above is a example: See [FAQS ASO & PCS Installation Guide - Appendix C, page 112](#)

# FAQS Top Secret Security

## Final Changes to set up GSS & FAQS to use Top Secret Security – Panel Display

```
usildawv.lvn.broadcom.net:923 (CICS.zoc)
File Edit View Logging Transfer Script Tools Options Help
CICS - VSELVL2G CICS - VSELVL2L 88
DCMTDRV1.0 ** CA GSS - Terminal Driver 5.0-SP06** ID=VSE.DOU
===>
*** GSS System Configuration ***

GSEDIT Options:
Storage limit      2      M  Maximum storage for editor in K or M
Translate table    GSEUDUCUS  Used to translate to upper case
Allow USER command  Y      Allow users to change identity
Allow SUBMIT command Y      Allow users to submit JCL

Use CA-Topsecret for VSE for:
- Command/PDS access Y      Control use of sensitive commands and
                             access to PDS members.
- Library checking   Y      Control access to VSE library members
                             from GSEDIT.
- IMOD checking     Y      Control IMOD execution.

PF08=PFKey Definitions
PF01=Help PF02=Refresh PF03=Return PF05=Update PF06=Defaults PF12=Exit
3279 09/022
SSL (TLS 1.2) TN3270 INDSFILE 07:42:27 21/08
```

# FAQS Top Secret Security

## Final JCL GSS/FAQS setup - Setting up GSS & FAQS JCL to use Top Secret Security

Once the IPL has been done and DCMOTDRV0 panel has been updated the final changes need to be made to the FAQS Jobs.

// ID USER cards are required to allow the FAQS Jobs to run. This applies to all FAQSMAIN/FAQSASO/FASQIUX & JCLSCHEM Jobs.

```
// ID USER=FAQS51
```

For the OLTP interface, DCMTDRIV is going to require the following ID card.

```
// ID USER=GSS
```

It is recommended that DCMTDRIV be executed in a different partition than the FAQS\*/JCLSCHEM Jobs

For more information: Combining GSS & FAQS Facilities

See [FAQS ASO & PCS Installation Guide Appendix C, page 115](#)

# FAQS Top Secret Security

## Changes to startup messages

When a FAQS User first signs on to FAQS you will notice a new or different message:

FQC0010 IMOD SECURITY ENABLED

---

Top Secret exceptions to FAQS User's security go to the console as any other Top Secret exceptions:

TSS7100E 006 J=JCLSCHED A=DOU T=N/A F=FAQS - Facility Not Authorized

TSS7100E 007 J=JCLSCHED A=PROFILE T=N/A F=FAQS - Password Missing

---

Changes to FAQS Online User security will now need to be authorized via Top Secret

FAQS Online security (SCTY) should not be used for security changes.

# FAQS Top Secret Security

## FAQS Top Secret

FAQS is now using Top Secret for VSE to secure GSS & FAQS features

A reminder:  
The following  
manuals will be  
helpful

- GSS for VSE Getting Started Guide  
Chapter 9
- FAQS/ASO for VSE & FAQS/PCS for VSE Installation Guide  
Appendix C
- FAQS/PCS for VSE Implementation Guide  
Chapter 6
- Top Secret Manuals





# Questions ?

# DYNAM 7.1

## Sharing Two Tape Libraries

# Refer to RI28840 for specifying a device range for each tape library

## Apply PTFS

RO20848,RO20861,RO20868

---

## Setup DYNAM Tape Options

Utilizing CACCDBU0

---

## Define LIBNAME Parameters

Tape Libraries, Devices with Device Ranges

---

## Scratch pool

Define a scratch pool for each tape library.

---

# DYNAM Tape Option Settings with CACCDBU0

MODON ID	Status	Description
11	ON	Support Automated Cartridge Systems
22	ON	Use IBM VGS for 3494 Support
23	ON	Use OWNERID to specify library and scratch pool

See [DYNAM for VSE Users Guide - page 3.54](#)

OWNCHK(YES)	YES:	Provides data set Owner ID checking during AVR
	NO:	Prevents data set Owner ID checking during AVR and makes it a comment field

See [DYNAM for VSE Programming Guide - page 2-24](#)

# DYNAM Tape Option Settings with CACCDBU0

```
// JOB INIT
// EXEC CACCDBU0,SIZE=100K
ALT DTOPTIONS CPU(*) MODON(22,ON,11,ON,23,ON) REFRESH(YES)
ALT DTOPTIONS CPU(*) OWNCHK(YES) REFRESH(YES)
DEL DTLIB CPU(*)
DEF DTLIB CPU(*) LIBID(0) LIBNAME(PRODTAPE) DEVICES(320,325)
DEF DTLIB CPU(*) LIBID(1) LIBNAME(NEWTAPE) DEVICES(526,530)
/*
/&
```

Set the range, note that the channel (1st byte) must be the same

Create the Library ID's

**Note:** If defining more than 1 library, then device ranges **MUST** be set!

# Define a Scratch Pool for each Tape Library

```
* $$ JOB JNM=DEFSCR,DISP=D,CLASS=0
```

```
* $$ LST DISP=D,CLASS=A
```

```
// JOB DEFSCR
```

```
// EXEC DYNCAT,SIZE=256K
```

```
SCRPOOL FIRSTVOL=VOL001 LASTVOL=VOL005 DEN=CART OWNER=0C
```

```
SCRPOOL FIRSTVOL=VOL006 LASTVOL=VOL010 DEN=CART OWNER=1D
```

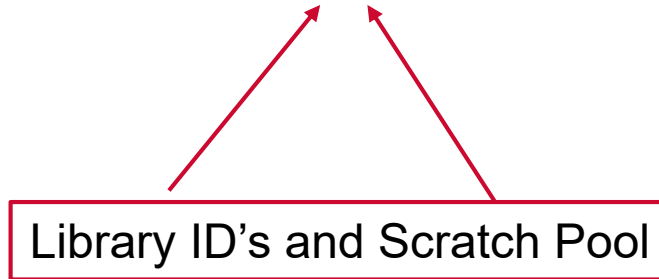
```
/*
```

```
/&
```

```
* $$ EOJ
```



High &  
Low Tape  
Volumes



Library ID's and Scratch Pool

# Adding New Tape Dataset to Catalog

```
// JOB DEF   DEFINE A DATASET TO THE DYNAM CATALOG
// EXEC DYNCAT,SIZE=256K

DELETE 'TAPOUT' ALL
DEFINE 'TAPOUT' TAPE NGEN=3 DEN=CART OWNER=1D
/*
// TLBL SDDLBL,'TAPOUT'

/* WRITES 10 DUMMY RECORDS OUT TO INITIALIZE THE TAPE

// UPSI 10000010
// EXEC DYNTEST
10
/*
/&
* $$ EOJ
```

Library: LIBID(1)  
Device Range: 526 – 530  
Volumes: VOL006 thru VOL010  
Scratch pool: D  
See from previous slide

## Note:

- The MODON 23 ON lets you use the OWNER to point to the correct LIBID and SCRATCH Pool
- If OWNER is left off or blank the dataset will not be defined to the correct LIBID or SCRATCH Pool

# Using an Existing Tape Dataset with the New Library

If you have pre-existing dataset	If you have multiple datasets
<p>Utilize the DYNACAT ALTER command to alter the tape dataset with OWNER=1D</p>	<ul style="list-style-type: none"><li>• Utilize DYNACC functions in a program</li><li>• Read the DYNAM catalog</li><li>• Write the tape datasets with the ALTER command out to a file</li><li>• This file is used as input (IJSYSIN) to the DYNACAT ALTER JCL</li></ul>
<pre>// JOB DYNACAT // EXEC DYNACAT ALTER 'TSTBKUP' OWNER=1D /* / &amp;</pre>	<p>What is DYNACC:</p> <ul style="list-style-type: none"><li>• Provides a general interface to the Dynam Catalog<ul style="list-style-type: none"><li>– Accepts data requests</li><li>– Searches (read only) the Catalog</li><li>– Returns data formatted for building reports</li></ul></li><li>• Used by the Dynam family reporting components such as DYNPRINT</li></ul>





# DYNAM 7.1

## Using DYNACC

# DYNACC Documentation

Reference the following sections  
in the DYNAM for VSE  
User Guide 7.1

- Using DYNACC page 10-1
- Invoking DYNACC from Assembler Programs page 10-4
- DYNINFO Layout page 10-6
- DYNACC Request Codes page 10-6

# Sample DYNACC to Read DYNAM Catalog in DSN Sequence

```
READCAT DS 0H
MVC DYNRQCD,=C'SD' REQUEST SD ACCESS
CALL DYNACC,(DYNINFO) INVOKE CATALOG ACCESS
CP DYNRTCOD,=P'00' GOOD RETURN CODE
BE HAVEREC
CP DYNRTCOD,=P'04' NO ACTIVE VERSIONS
BE HAVEREC
CP DYNRTCOD,=P'16' PASSWORD PROTECTED
BE READCAT
CP DYNRTCOD,=P'20' NO MORE DATASETS
BE CHKOWN CHECK IF OWNID FOUND
B ACCERR OTHERWISE UNEXPECTED ERROR

HAVEREC DS 0H
CLC DYNOWNID,=CL2'0C' OWNER=0C?
BNE READCAT NO THEN READCAT AGAIN
OI STATUS,OWNFND TURN FOUND SWITCH ON
MVC DSNOUT,DYDNSN MOVE DSN FROM DYNINFO
LA R4,DSNOUT POINT TO FIELD
LA R4,44(R4) BUMP TO LAST POSITION
TRIMBLNK DS 0H LOOP UNTIL CHAR FOUND
CLI 0(R4),C' IS IT A SPACE?
BNE FOUNDIT NO...THEN BRANCH
BCT R4,TRIMBLNK DECREMENT R4 TO CHECK NEXT CHAR
FOUNDIT DS 0H
MVI 1(R4),C'' ELSE MOVE ' AFTER DSN NAME
MVC 3(8,R4),=C'OWNER=1D' MOVE OWNER=1D TO END OF CMND
PUT OUTFIL,OUTREC WRITE TO OUTPUT SD FILE
CP PRTCNT,=P'10' IF < 10 LINES PRINTED
BL PRINTDET PRINT DETAIL ELSE PRINT HEADER
BAL R5,PRTHEDS
PRINTDET DS 0H
MVI PRDCTL,C' SINGLE LINE SPACING FOR SYSLST
MVC PRDCTL+1(132),SPACES
MVC CMNDOUT,OUTREC MOVE CMND FROM OUTREC TO SYSLST
PUT PRDOUT,PRDCTL WRITE TO SYSLST
AP PRTCNT,=P'1' ADD 1 TO PRTCNT
B READCAT READ THE NEXT DSN FROM CATALOG
```

This must be set to **SD** for this example

The following Assembler and JCL will provide an example of moving 1 tape library to another

- Assembler code will read the catalog and write Alter commands to a flat file
- The JCL will read the flat file and change the Owner ID. In the example from '0C' to '1D'

# Alter commands are written to the UTFIL

```
// JOB CHNGOW  SAMPLE OUTPUT
// DLBL UTFIL,'RMC.ALTER'
// EXTENT SYS008,VSEWK6,,631,3
// ASSGN SYS008,DISK,VOL=VSEWK6,SHR
// EXEC CHANGEOW
/*
```

## GENERATED DYNACC COMM

```
ALT 'TAPWORK.1' OWNER=1D
ALT 'TAPWORK.2' OWNER=1D
ALT 'TAPWORK.3' OWNER=1D
ALT 'TAPWORK.4' OWNER=1D
ALT 'TAPWORK.5' OWNER=1D
```

Commands produced from the DYNACC execution  
– output to UTFIL

# Alter commands are read from IJSYSIN and executed

```
// JOB CHNGOW JCL TO READ DYNCAT ALTER COMMANDS FROM IJSYSIN
```

```
// DLBL IJSYSIN,'RMC.ALTER'
```

```
// EXTENT SYSIPT,VSEWK6
```

```
ASSGN SYSIPT,DISK,VOL=VSEWK6,SHR
```

```
// EXEC DYNCAT
```

```
/*
```

```
CLOSE SYSIPT,00C
```

```
/*
```

```
/&
```



# Questions ?

# Explore Report Writer CSV Output Support

New Feature for Version 7.1

# Explore Report Writer CSV Output Support

## New Feature for Version 7.1

- The current Explore Report Writer produces graphic and tabular reports from data collected by Explore for z/VSE & Explore for CICS
- This new feature will allow comma separated value (CSV) output to be generated - only tabular reports supported

The CANRPT VSE.CICS.STAT command generates a report like the following:

DATE	TIME	CPU ACTIVE	CPU %ACTIVE	P-FAULT RATE	TOTAL IO	DISK IO	DISK-IO RATE	DISK SERVTIME	TRAN USE	TRAN RATE	TERM RESP	FILE USE	FILE I/O TIME
09/17/03	00.00	01:08:39	10.6	0.09	50,465	41,186	1.03	0.027	457	0.01	1.421	22197	0.005
09/18/03	00.00	01:30:31	12.0	0.08	135,482	119,159	1.38	0.022	891	0.01	1.289	57343	0.008
09/19/03	00.00	01:02:43	10.8	0.06	98,341	70,465	0.98	0.027	521	0.01	1.365	26901	0.009
09/20/03	00.00	00:17:05	3.1	0.02	4,989	4,034	0.45	0.021	68	0.00	0.642	1900	0.003
09/21/03	00.00	00:03:11	0.7	0.02	845	621	0.67	0.020	21	0.00	0.710	217	0.003
09/22/03	00.00	02:13:32	16.4	0.12	273,101	224,178	1.93	0.028	2018	0.02	1.193	97045	0.010
09/23/03	00.00	01:49:29	13.0	0.15	187,422	151,342	1.60	0.030	1359	0.02	1.544	72663	0.009
09/24/03	00.00	00:08:38	8.9	0.05	53,985	36,985	0.91	0.030	432	0.01	1.391	21988	0.007
PERIOD		08:10:48	11.2	0.08	804,630	647,970	1.21	0.024	5767	0.01	1.331	300K	0.009



# Explore Report Writer CSV Output Support

## CSV Output

By adding a “**CSV**” DLBL to the report writer JCL Job stream CSV output will be captured - no additional report writer parameters are required

Sample “**CSV**” File contents

```
,,"CPU","CPU","P-FAULT","TOTAL","DISK","DISK-IO","DISK","TRAN","TRAN","TERM","FILE","FILE"  
"DATE","TIME","ACTIVE","%ACTIVE","RATE","IO","IO","RATE","SERVTIME","USE","RATE","RESP","USE","I/O TIME"  
09/17/03,00.00,01:08:39,10.6,0.09,50465,41186,1.03,0.027,457,0.01,1.421,22197,0.005  
09/18/03,00.00,01:30:31,12.0,0.08,135482,119159,1.38,0.022,891,0.01,1.289,57343,0.008  
09/19/03,00.00,01:02:43,10.8,0.06,98341,70465,0.98,0.027,521,0.01,1.365,26901,0.009  
09/20/03,00.00,00:17:05,3.1,0.02,4989,4034,0.45,0.021,68,0.00,0.642,1900,0.003  
09/21/03,00.00,00:03:11,0.7,0.02,845,621,0.67,0.020,21,0.00,0.710,217,0.003  
09/22/03,00.00,02:13:32,16.4,0.12,273101,224178,1.93,0.028,2018,0.02,1.193,97045,0.010  
09/23/03,00.00,01:49:29,13.0,0.15,187422,151342,1.60,0.030,1359,0.02,1.544,72663,0.009  
09/24/03,00.00,00:08:38,8.9,0.05,53985,36985,0.91,0.030,432,0.01,1.391,21988,0.007  
"PERIOD",,08:10:48,11.2,0.08,804630,647970,1.21,0.024,5767,0.01,1.331,300K,0.009
```

# Explore Report Writer CSV Output Support

## CSV Output - continued

Can import results into a spread sheet or other tools

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1			CPU	CPU	P-FAULT	TOTAL	DISK	DISK-IO	DISK	TRAN	TRAN	TERM	FILE	FILE
2	DATE	TIME	ACTIVE	%ACTIVE	RATE	IO	IO	RATE	SERVTIME	USE	RATE	RESP	USE	I/O TIME
3	9/17/2003	0	1:08:39	10.6	0.09	50465	41186	1.03	0.027	457	0.01	1.421	22197	0.005
4	9/18/2003	0	1:30:31	12	0.08	135482	119159	1.38	0.022	891	0.01	1.289	57343	0.008
5	9/19/2003	0	1:02:43	10.8	0.06	98341	70465	0.98	0.027	521	0.01	1.365	26901	0.009
6	9/20/2003	0	0:17:05	3.1	0.02	4989	4034	0.45	0.021	68	0	0.642	1900	0.003
7	9/21/2003	0	0:03:11	0.7	0.02	845	621	0.67	0.02	21	0	0.71	217	0.003
8	9/22/2003	0	2:13:32	16.4	0.12	273101	224178	1.93	0.028	2018	0.02	1.193	97045	0.01
9	9/23/2003	0	1:49:29	13	0.15	187422	151342	1.6	0.03	1359	0.02	1.544	72663	0.009
10	9/24/2003	0	0:08:38	8.9	0.05	53985	36985	0.91	0.03	432	0.01	1.391	21988	0.007
11	PERIOD		8:10:48	11.2	0.08	804630	647970	1.21	0.024	5767	0.01	1.331	300K	0.009



# Questions ?



**Thank You**