Abstract for CA World '95

From: Terri Davis at JPL  Site id: 113960

Session Title: A Do it Yourself Guide to Multi-platform Security Featuring CA-ACI'2
Automated Updates

Session #: EA016S

Abstract:

This session will detail a procedure to automate the synchronization of user information across CA-ACI'2, Novell, Microsoft Windows NT, MS SQL Server, and internal applications. Using a combination of AC1OW’1’S1., a DYYL280II reformat job, and utilities that extract Novell bindery (security) data, the information is downloaded and combined in Xbase format, and matched to Human Resources data. Foxpro or CA-CLIPPER programs perform these functions. A file is uploaded to the mainframe as input to AC1WAC11, where it is used to automatically update Logonid records for organization, mailstop, phone, and name changes etc. Custom reports are easily produced to manually synchronize and update security information across all platforms, (Novell, MS SQL Server, CICS-Millennium etc.).

New features include CA-ACI'2 Resource Rule validations and updates, CA-ACI'2 dataset rule validations and cross-reference tools, and the (forthcoming) automatic updates to MS SQL Server security tables.

Biography:

Terri Davis has worked at the Jet Propulsion Laboratory for over 9 years performing in capacities such as Senior Technical Support Analyst and Data Base Administrator. She currently leads the Computer and Data Security group at JPL. She holds a Bachelor of Science Degree in Business Management from Fairleigh Dickinson University and has additional certifications in Data Processing and Computer Technology.
ADO IT YOURSELF GUIDE
TO
MULTI-PLATFORM SECURITY

Featuring Automatic Updates to
CA-ACF2 Logonid Records

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The Jet Propulsion Laboratory is a Federally Funded Research & Development Center (FFRDC) managed by the California Institute of Technology (Caltech).

JPL’s principle federal affiliation is the National Aeronautics & Space Administration (NASA).

The major mission of the Laboratory is Earth Observation Science and Solar System Exploration.

OVERVIEW

■ Jet Propulsion Laboratory
  • California Institute of Technology
  • Manage interplanetary science missions for NASA
  • 6600 employees/affiliates

■ Business Operations
  • Financial Information
  • Purchasing
  • Property (inventory/Tracking)
  • Human Resources
  • Project Planning and Budgeting
OVERVIEW

■ Hardware/Software Platforms
  • IBM ES9121; CICS; DB2; Millennium; CA-IDMS; CA-ACF2 6.0
  • Client/Server; Novell 3. lx; Microsoft SQL Server; Microsoft; Windows NT; UNIX

■ Computer and Data Security
  • 2 employees + 1 Academic Part-timer

■ Organizational Dynamics
  • Rapidly increasing use of client/server technology (1000 user increase annually)
  • Matrix organization structure (Frequent job function/location changes)
  • Frequent organizational changes
  • Employee status changes
OBJECTIVES

- Integrate security data from various hardware and software platforms into a centralized database:
  - CA-ACF2, Novell, and MS SQL Server into Microsoft Foxpro

- Automate analysis of system and application accesses:
  - **Current** Management reports (R&R)
  - **Future** Centralized Database Application using Microsoft Access Win NT

- Track users across platforms using Logonid record as the security master file

- Automate maintenance of security data, where possible:
  - Uploads to CA-ACF2
JPL USERID STRUCTURE
GRP, APS, EMP, MSC, BNUM

**GRP** (6)  Group - Job Function

**APS** (8)  Additional functional definition

**EMP** (2)  Employee - Denotes employee (JP) or Affiliate (CT)

**MSC** (2)  Miscellaneous - Optional additional functional definition

**BNUM** (6)  Badge Number - Employee or Affiliate Badge Number
JPL CA-ACF2
LOGONID RECORD
(Client Server Fields)

HRNUM  Char(IO)  Employee #, or Special #'s for Started Task & other Utility Ids. 6 Significant Digits currently used. All 1's, 2's, 3's, 5's, or 9's are used for special Ids.
. Oxxxxx  Employees
. 9XXXXX  Affiliates/contractors

HRAUX  Char(6)  Used to Xref to users of HR Auxiliary Systems:
. S=Sal'rev  Char(1) start position 1
. P= Pinfo  Char(1) start position 2

HRSTAT  Char(4)  Employee/Affiliate Employee Status
. LOA  Leave of Absence
. OC  On Call

PVAI L  Char(4)  Prevail User
. PV  Only valid value

SEC01  Char(8)  JPL Security - Future Use
HRNUM FIELD DEFINITIONS

11111111  Started Task Ids

22222222  Control (CICS) Region Ids

33333333  Class Ids

44444444  CA-ACF Utility Ids - Model

55555555  File Server/Client Server Ids

66666666  Not Assigned

77777777  Not Assigned

88888888  Not Assigned

99999999  Miscellaneous System Ids

0123450  JPL Employee Number

9021050  JPL Affiliate Number
ACKNOWLEDGMENTS

The following brand/product names used within the presentation are trademarks, registered trademarks, and registered trade names.

CA-ACF2 - Computer Associates International Inc.
CA-IDMS - Computer Associates International Inc.
CICS - International Business Machines, Corp.
DB2 - International Business Machines, Corp.
FoxPro - Microsoft Corp.
Millennium - Dun & Bradstreet Software Services, Inc.
Novell NetWare - Novell, Inc.
QUICK - Verlag Schreiber-Neumann Publications
R&R Report Writer - Concentric Data Systems
SQL Server - Microsoft Corp.
Windows NT - Microsoft Corp.
CA-ACF2 LOGO$^N$ I$^\omega$
EXTRACT/COM$^\omega$ R$^\leq$
FLOW DIAGRAM
MAINFRAME

HRS DATASETS

HRSEXIT

HRSDATA (text file format)

A

ACF60. ACF. LOGONIDS

ACFRPTSL

JPL. CAACF2. USERS

DYL280II REFORMAT

TERRI. CAACF2. USERS

B
I  

R  

K  

T  

A  

B  

ACFBATCH  

LOGONID DATABASE  

ACF2USER (dbf)  

HRSDATA (dbf file format)  

ACF2NMAT (dbf)  

HRSUPDT (Compare program)  

ACF2UPDT (dbf)  

ACFUP (text file)  

ACFUP (Update Transactions)  

RELATIONAL REPORTS USING R&R
CA-ACF2 LOGONID EXTRACT

//A0191 ID JOB (0155555,A0191 I), 'T.DAVIS',
II*  TYPRUN=SCAN,
II  MSGCLASS=H,
II*  RESTART=S020.STEPOI ,
II*  RESTART= FTPSEC,
//  CLASS=A,
//  REGION=2M,
II  TIME= (3,30),
//  NOTIFY=A01911
/*ROUTE PRINT U1
/*JOBPARM L=9999,C=0,R=511,K=55,E=Y

********************************************************************
// EXTRACTS ALL ACTIVE MASS USERS FROM THE ACF2 DATABASE - NEW
//* ACFFDR FIELDS INCLUDING HRNUM, HRSTAT, PVA;L
// THIS FILE IS USED FOR DOWNLOADING AND XREF REPORTS
// EXECUTE FTPPW TO AUTOMATICALLY DOWNLOAD FILE
********************************************************************
//ACFRPT EXEC PGM=ACFRPTSL
/*YSPRINT DD SYSOUT=* 
/*YSPRINT DD DSN=JPL.CAACF2. USERS, DISP=(OLD)
//SYSIN DD *
INPUT(ACF)
CA-ACF2 LOGONID EXTRACT
(Page 1 - Continued)

TITLE(**JPL LOGON IDS ****)
REPORT(SHORT)
DTCFIELD(NO)
SFLDS(GRP APS SEC MS PHONE BNUM HRNUM HRSTAT PVAIL)
/*
******************************************************************************
//* THIS JOB REFORMATS THE ACF2 REPORT DUMP OF ALL PRODUCTION USERS
//* ALL ACF2 USERIDS
//* FILE USED FOR DOWNLOADING AND REPORTING
//* THIS VERSION HAS ADDITIONAL FIELDS - NEWEST
******************************************************************************
/S020 EXEC DYL280II,COND=(4,LT),
// DT=1440,
II DWSP=50,
II DWSS=10,
II SRTWRK=5
//STEPLIB DD DSN=D280.DYL280II,LOADLIB,DISP=SHR
//STEP01 SYS280RDD SYSOUT=* 
//SYSOUT DD SYSOUT=* 
//SORTWK01DD UNIT=WORK,SPACE=(CYL,(5,5),,CONTIG)
//SORTWK02DD UNIT=WORK,SPACE=(CYL,(5,5),,CONTIG)
//FILEIN DD DSN=JPL.ACF2.USERS, DISP=SHR
CA-ACF2 LOGONID EXTRACT
(Page 2)

// * UTFILE DD DSN=JPL.ACF2.USERS,DISP=(,CATLG,DELETE),
  UNIT=MD EV,SPACE=(CYL,(I, I), RLSE),
  DC B=(RECFM=F B, LRECL=100, BLKSIZE=9000)
//SYSIN DD *
OPTION PRINT ERROR ************* ************* ************* ************* ************* *************
* (TLD) ELIMINATES REPORT HEADING FIELDS AND IRRRELEVANT DATA ************* ************* ************* ************* ************* *************

****USER SPECIFICATION FILE
FILE FILEIN VB '140 420C LENGTH LRECL
STATUS STAT USFLG

<table>
<thead>
<tr>
<th>FIELD</th>
<th>Length</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC F21N</td>
<td>140</td>
<td>1</td>
</tr>
<tr>
<td>FIELD40</td>
<td>40</td>
<td>4</td>
</tr>
<tr>
<td>FIELDDD</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>GRP</td>
<td>6</td>
<td>36</td>
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<tr>
<td>GROUP</td>
<td>6</td>
<td>37</td>
</tr>
<tr>
<td>APS</td>
<td>8</td>
<td>46</td>
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<tr>
<td>LID</td>
<td>8</td>
<td>6</td>
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<tr>
<td>NAME</td>
<td>20</td>
<td>15</td>
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<tr>
<td>SECTION</td>
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<td>55</td>
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<tr>
<td>MAILST</td>
<td>8</td>
<td>64</td>
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</table>
CA-ACF2 LOGONID EXTRACT
(Page 2- Continued)

<table>
<thead>
<tr>
<th>PHONE</th>
<th>12</th>
<th>73</th>
</tr>
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<tbody>
<tr>
<td>BNUM</td>
<td>6</td>
<td>86</td>
</tr>
<tr>
<td>HRNUM</td>
<td>10</td>
<td>95</td>
</tr>
<tr>
<td>H R S T A T</td>
<td>4</td>
<td>106</td>
</tr>
<tr>
<td>PVAIL</td>
<td>4</td>
<td>115</td>
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</table>

FILE OUTFILE OUTPUT FROM OUT FILE
FB 100 9000

<table>
<thead>
<tr>
<th>LIDO</th>
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<tbody>
<tr>
<td>NAMEO</td>
<td>20</td>
</tr>
<tr>
<td>GROUPO</td>
<td>6</td>
</tr>
<tr>
<td>APSO</td>
<td>8</td>
</tr>
<tr>
<td>SECTIONO</td>
<td>4</td>
</tr>
<tr>
<td>MA I LSTO</td>
<td>8</td>
</tr>
<tr>
<td>PHONEO</td>
<td>12</td>
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<tr>
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</tr>
<tr>
<td>HRSTATO</td>
<td>4</td>
</tr>
<tr>
<td>PVAILO</td>
<td>4</td>
</tr>
</tbody>
</table>

WORKAREA
CA-ACF2 LOGONID EXTRACT

(Page 3)

DYLCOUNT1 = DYLCOUNT1 + 1
IF DYLCOUNT1 LT 11
  REJECT
ELSE
  NEXT
ENDIF

*PRINT AC F21N
*H EXPRINT LRECL

IF LRECL EQ 136
  MOVE LIDTOLIDO
  MOVE NAME TO NAMEO
  MOVE GROUP TO GROUPO
  MOVE APS TO APSO
  MOVE SECTION TO SECTIONO
  MOVE MAILST TO MAILSTO
  MOVE PHONE TO PHONEO
  MOVE BNUM TO BUMO
  MOVE HRNUM TO HRNUMO
  MOVE HRSTAT TO HRSTATO
  MOVE PVAIL TO PVAILO
WRITE OUTFILE
CA-ACF2 LOGONID EXTRACT
(Page 3- Continued)

ELSE
  REJECT
ENDIF

!*
// FTPSEC EXEC PGM=FTP, COND=(4,LT)
!*
==

//** THIS STEP AUTOMATICALLY DOWNLOADS THE FILES TO A WORKSTATION
//** MUST HAVE SERVING FTP ACTIVE ON WORKSTATION (TLD)
//**=

/DD DSN=JPL. SEC. CNTL(FTP IN PT), DISP=SHR
/DD DSN=JPL. SEC. CNTL(FTPPU T), DISP=SHR

//OUTPUT DD SYSOUT=*  //S?* SUDUMP DD SYSOUT=*  //SYSABEND DD SYSOUT=*  //SYSPRINT DD SYSOUT=*  

//**=

//SYSAEND DD SYSOUT=*
CA ACF2 LOGONID RECORDS
TERMINATIONS/LOAS OR
NO MATCH ON HRS
BY STATUS/NAME

<table>
<thead>
<tr>
<th>STATUS</th>
<th>NAME</th>
<th>LOGONID</th>
<th>SECTION MAIL STOP</th>
<th>PHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIRD, TWEETY</td>
<td>A02004</td>
<td>6132</td>
<td>281-103</td>
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<tr>
<td></td>
<td>PEREZ, MIKE</td>
<td>A02023</td>
<td>1790</td>
<td>511-201</td>
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<tr>
<td></td>
<td>SAILOR, POPEYE</td>
<td>A02006</td>
<td>3180</td>
<td>506-415</td>
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<td></td>
<td>SMITH, LEE</td>
<td>A02025</td>
<td>6300</td>
<td>511-209</td>
</tr>
<tr>
<td></td>
<td>THOMPSON, JENNY</td>
<td>A02014</td>
<td>3970</td>
<td>230-303</td>
</tr>
<tr>
<td></td>
<td>ZEILE, TODD</td>
<td>A02021</td>
<td>2800</td>
<td>264-318</td>
</tr>
<tr>
<td>2</td>
<td>BELINSKY, BO</td>
<td>A02013</td>
<td>2200</td>
<td>171-243</td>
</tr>
<tr>
<td></td>
<td>CEDENO, ANDUJAR</td>
<td>A02017</td>
<td>6420</td>
<td>111-115</td>
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<tr>
<td></td>
<td>HARDING, TONYA</td>
<td>A02007</td>
<td>6720</td>
<td>511-312</td>
</tr>
<tr>
<td></td>
<td>PARK, CHANHO</td>
<td>A02008</td>
<td>6264</td>
<td>190-220</td>
</tr>
<tr>
<td></td>
<td>RABBIT, ROGER</td>
<td>A02005</td>
<td>6110</td>
<td>502-300</td>
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<tr>
<td></td>
<td>STARKS, JOHN</td>
<td>A02012</td>
<td>6452</td>
<td>241-211</td>
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<td></td>
<td>WILSON, PETE</td>
<td>A02011</td>
<td>3350</td>
<td>238-638</td>
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<tr>
<td>3</td>
<td>BAGWELL, JEFF</td>
<td>A02016</td>
<td>6720</td>
<td>511-305</td>
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<tr>
<td></td>
<td>BIGGIO, CRAIG</td>
<td>A02015</td>
<td>1720</td>
<td>601-205</td>
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</table>
## ACF2/HRS UPDATE REPORT
### ACF2 LOGONID RECORDS

#### SECTION CHANGES
**BY AWE**

<table>
<thead>
<tr>
<th>NAME</th>
<th>LOGONID GROUP</th>
<th>OLD SECT</th>
<th>NEW SECT</th>
<th>MAIL-STOP</th>
<th>PHONE</th>
<th>PASSKEY</th>
</tr>
</thead>
<tbody>
<tr>
<td>AARON, HANK</td>
<td>A00007</td>
<td>3920</td>
<td>3480</td>
<td>301-235</td>
<td>4-8294</td>
<td>MSOAT001</td>
</tr>
<tr>
<td>ABBOTT, JIM</td>
<td>A00710</td>
<td>222</td>
<td>3180</td>
<td>JPL-HQ2</td>
<td>202-426-9320</td>
<td>MG0AG010</td>
</tr>
<tr>
<td>ANDERFLUF, FARLIP</td>
<td>A00055</td>
<td>395</td>
<td>6030</td>
<td>602-225</td>
<td>4-4217</td>
<td>MASSTTECH</td>
</tr>
<tr>
<td>AKMAN, TROY</td>
<td>A00001</td>
<td>3920</td>
<td>5120</td>
<td>T-1709</td>
<td>4-7202</td>
<td>SECURITY</td>
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<td>ARNAZ, DEZI</td>
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<td>3970</td>
<td>5253670</td>
<td>818-351-3411</td>
<td>MSOAG072</td>
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<td>AVERY, STEVE</td>
<td>A00099</td>
<td>6220</td>
<td>5120</td>
<td>503-102</td>
<td>818-564-4579</td>
<td>MSOAG150</td>
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<tr>
<td>CEEY, RON</td>
<td>A00021</td>
<td>3920</td>
<td>3220</td>
<td>TMO</td>
<td>619-249-4958</td>
<td>MIHOAT000</td>
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<td>CAPRIATI, JENIFER</td>
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<td>1050</td>
<td>6454</td>
<td>DSCG-33</td>
<td>619-255-8052</td>
<td>MG0AG010</td>
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<tr>
<td>DUQUETTE, DAN</td>
<td>A00108</td>
<td>3950</td>
<td>6030</td>
<td>511-213</td>
<td>7-7060</td>
<td>MG0AG010</td>
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<tr>
<td>EDBERG, STEFAN</td>
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<td>3160</td>
<td>JPL-Cape</td>
<td>407-8532161</td>
<td>MFOAT010</td>
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<tr>
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<td>A00008</td>
<td>3950</td>
<td>3920</td>
<td>602-745</td>
<td>3-3006</td>
<td>MFOAT010</td>
</tr>
</tbody>
</table>

**Total Users: 11**
\( \Delta \tau \leq T \not\subset S \leq T \) RULE EXTRACT AND REFORMAT FLOW DIAGRAM
MAINFRAME

ACF2. DATASET. RULES

(PDS File Structure)

DYL280II EXTRACT REFORMAT

A01911. ACF2RPT. RPTFILE

(fixed format)

FTP Download To PC

...
DATASET RULE EXTRACT AND REFORMAT

//A01911D JOB (OIKW917,A01911 ),'HOLD*T. DAVIS ',
//*TYPRUN=SCAN,
II*RESTART=ACF3000,
II*RESTART=FTPSEC,
II MSGCLASS=H,
//CLASS=A,
//REGION=2048K,
//TIME=(60),
II NOTIFY=A01911
/*ROUTE PRINT U1
/*JOBPARM L=9999,C=0,R=600,K=55,E=Y
/*OUTPUT BBB DEST=U1,FORMS=118,CHARS=GS12,FCB=CH11,BURST=Y
******************************************************************************
// THIS JOBS EXTRACTS INFO FROM JPL.DATASET. RULES, BASED
// ON THE RULES MASK YOU SELECT, REFORMATS AND REMOVES
// THIS JOB SELECTS ALL RULES FOR VARIOUS REPORTING PURPOSES
// FORMAT FOR VALIDATION AND REPORTING IN FOXPRO
******************************************************************************
//ROUTE PRINT U1
//ACF2000 EXEC PGM=DCAMS
******************************************************************************
II* FILE CLEANUP
//* DELETES ALL USER FILES REQUIRED FOR PROCESSING
******************************************************************************
DATASET RULE EXTRACT ANDREFORMAT

(Page 1 Continued)

//SYSOUT DD SYSOUT=*  
//SYSPRINT DD SYSOUT=*  
//SYSUDUMP DD SYSOUT=*  
//SYSIN DD *
  DELETE 'AO1911.ACF2RPT.RPTFILE'  
  DELETE 'AO1911.ACF2.RULES.EXTRACT'  
  IF LASTCC = 8-
  THEN SET MAXCC = 0
  /*
  //ACF2070 EXEC PGM=DYL280,  
   REGION=4096K,  
   // PARM='UA=********'  
   <=== ACF2RULE  
  *****************************************************************************
  /*  PRODUCE A SINGLE SEQUENTIAL FILE FROM PDS OF DECOMPED  
   /* RULES WITH $KEY AS RECORD ID FOR EACH LINE OF RULE.  
   /* RECORDS REFORMATTED INTO FIXED FOR DOWNLOAD AND REPORTING.  
  ******
DATASET RULE EXTRACT AND REFORMAT

;/* ONCE THE REPORT RECORD HAVE BEEN CREATED
  */ RETURN MULTIPLE REPORTS CAN BE RUN FROM THIS FILE
  
  "A01911.ACF2RPT.RPTFILE"                  *  
  
  //**************************************************************************************************
  //STEP LIB DD DSN=A280.DYL280!!LOADLIB,DISP=SHR
  //SYSPRINT DD SYSOUT="*
  //SYS280R DD SYSOUT="*
  //SYSOUT DD SYSOUT="*
  //SYS004 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
  //LIBFILE DD DSN=AJR21.DATASET.RULES,DISP=SHR
  //RPTFILE DD DSN=A01911.ACF2RPT.RPTFILE,
  //   DISP=(NEW,CATLG,DELETE).UNIT=SYSDA.
  //      SPACE=(CYL,(5,5),RLSE),
  //         DCB=(RECFM=FB,LRECL=145,BLKSIZE=2900)
  //SYSIN DD *
  
FILE LIBFILE VB 251 PDS DSNAREA MEMBER MEMNAME STATUS STATINDN
  'INREC   255 01  ( )
  INSEQ   08 01
  INKEY   07
  FILLER   06
  INHLV   08
  INDAT  30 16
FILE RPTFILE OUTPUT FROM RPTFILE FB 145
   OUTREC 14501
   OUTREC1 14501

WORKAREA
   WDSAREA 52 01
   WDSNAME 44 01
   WVOLID 06
   WRECLNG 02 BI

WORKAREA
   WKRECF 80 01
   WKMEMF 08 01
   WKWRDF 01

WORKAREA
DATASET RULE EXTRACT AND REFORMAT
(Page 3)

WKRECP  80 01
WKMEMP  08 01
WKWRDP  01
WKDATA  20

WORKAREA
WKPARM  10 01
WKPMEM  08 01

WORKAREA
WORD5   05 01
WORD2   02 01
WORD1   01 01

WORKAREA
WKREC   145 01
WKNDX   08 01
WKPREFIX 15
WKDSN   40
WKUID   30
WKACC   40
WORKAREA
WKFL1   10001
DATASET RULE EXTRACT AND REFORMAT
(PagE 3 Continued)

WORKAREA
WKKEY  49 91
WKKEY1 40 1
WKKEYB  06 9
WKPFIX  02 9
WKPFIX1 01 9
WKSPNUM 06 9
WKBNUM  05 9
WKKEY2  09

WORKAREA
WKSEKEY 49 01
WKSEKEY1 40 01
WKSEKEY2 09

BEGIN
MOVE DYLPARM TO WKPARM
END
READDIR 'BFILE'
IF STATIN EQ 'E'
STOP
ENDIF
DATASET RULE EXTRACT AND REFORMAT  
(Page 4)

WKMEMF

TO WKWRDP LENGTH 1  
TO WKMEMP(INX) LENGTH 1

NE WKMEMP

' E'
DATASET RULE EXTRACT AND REFORMAT
(Page 4 Continued)

INY = 8
MOVE INREC(INY) TO WORD2 LENGTH 2

IF WORD1 EQ '*'
  GOTO CO00
ENDIF

*** SEE IF RECORD IS A $KEY ***
IF WORD2 EQ '$K'
  INY = INY + 5
  MOVE INREC(INY) TO WKNDX LENGTH 8
  TRANSLATE WKNDX FROM ']' TO X'40'
  MOVE BLANKS TO WKPREFIX
  GOTO CO00
ENDIF

*** SEE IF RECORD IS A $PREFIX ***
IF WORD2 EQ '$P'
  INY = INY + 8
  MOVE INREC(INY) TO WKPREFIX LENGTH 16
  TRANSLATE WKPREFIX FROM ']' TO X'40'
  GOTO CO00
ENDIF
DATASET RULE EXTRACT AND REFORMAT

*** RESET THE INDEX FIELDS FOR NEXT RECORD

INY = 8
INX = 0
C010:
MOVE INREC(INY) TO WORD5 LENGTH 5
IF WORD5 EQ 'UID('
    MOVE SPACES TO WKDSN(INX)
GOTO C020
ENDIF
MOVE INREC(INY) TO WKDSN(INX)
INX = INX + 1
INY = INY + 1
IF INY EQ 40
    GOTO C020
ENDIF
GOTO C010
C020:

*** FINDSUID STRING *****

** TRANSLATE WKDSN FROM '-' TO SPACES
INX = 0
INY = INY + 5
D000:
MOVE INREC(INY) TO WORD1 LENGTH 1
DATASET RULE EXTRACT AND REFORMAT

(Page 5 Continued)

IF WORDI EQ ')
    MOVE SPACES TO WKUID(INX)
    GOTO E000
ENDIF
IF INX GT40
    GOTO E000
ENDIF
MOVE WORDI TO WKUID(INX) LENGTH 1
INX = NX + 1
INY = NY + 1
GOTO D000
E000:
INY = INY + 2
MOVE SPACES TO WKACC
MOVE SPACES TO WKDATA
MOVE INREC(INY) TO WKACC LENGTH 40
INZ = 0
EO05:

MOVE WKACC(INZ) TO WORD5 LENGTH 5
IF WORD5 EQ 'DATA(' 
    MOVE WKACC(INZ) TO WKDATA
    MOVE SPACES TO WKACC(INZ) LENGTH 30
    MOVE WKDATA TO WKACC(INZ)
GOTO EO06
ENDIF
IF INZ EQ 40 
    GOTO EO06
ENDIF
INZ= INZ + 1
GOTO EO05

EO06:

INY= INY + 1
MOVE WKREC TO OUTREC1
WRITE RPTFILE
GOTO C000
E900:

MOVE SPACES TO !NREC
GOTO C000
F000:

INX = 0
INY = 0
INZ = 0
DATASET RULE EXTRACT AND REFORMAT

(Page 7)

//ACF3000 EXEC PGM=DYL280,COND= (4,LT),
// REGION=4096K
//******************************************************************
//* FINAL REFORMAT PRIOR TO DOWNLOAD TO PC                          *
//******************************************************************
//**************************.*******************************
//STEPLIB DD DSN=D280.DYL28011.LOADLIB,
// DISP= SHR
//SYSPRINT DD SYSOUT=* 
//SYS280R DD SYSOUT=* 
//SYSOUT DD SYSOUT=*  
//SYS004 DD UNIT= SYSDA,
//  SPACE= (CYL,(2,2))
//INFILE DD DSN=A01511.ACF2RPT.RPTFILE,
// DISP=( OLD)
//OUTFILE DD DSN=A01511.ACF2.RULES.EXTRACT,
// DISP=(OLD) 
// DISP=(NEW,CATLG,DELETE).
// UNIT= SYSDA,
// SPACE= (CYL,(2,1),RLSE),
// DCB=(RECFM=FB, RECL= 145, BLKSIZE=2900)
//SYSIN DD 'FILE INFIL INPUT FB 1452900
INREC 14501 
RKEY 08 01 
RPREFIX 16
DATASET RULE EXTRACT AND REFORMAT
(Page 7 Continued)

RDSN 40
RUID 30
RACC 40
RTYPE 07 95

FILE OUTFILE OUTPUT FROM OUTFILE FB 145
   OUTREC 14501

IF RTYPE EQ 'NEXTKEY'
   REJECT
ELSE
   NEXT
ENDIF

MOVE !NREC TO OUTREC
WRITE OUTFILE
/*
DATASET' RULE EXTRACT AND REFORMAT

(Page 8)

//FTPSEC EXEC PGM=FTP,COND=(4,LT)

/* THIS STEP AUTOMATICALLY Downloads the files to a workstation
II* MUST HAVE SERVING FTP ACTIVE ON WORKSTATION - TERRI
/*

//INPUT DD DSN=JPL.PROD.CNTL(FTPINPT),DISP=SHR

// DD DSN=JPL.PROD.CNTL(FTPARULE),DISP=SHR

//OUTPUT DD SYSOUT=* 
//SYSUDUMP DD SYSOUT=* 
//SYSABEND DD SYSOUT=* 
//SYSPR\NT DD SYSOUT=* 

/*
Date: 04/03/95

JPL/MASS DATASET ACCESS REPORT
OBsolete ACCESS RULES
BY ACF2 RULE KEY

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PAGE: 1
## JPL DATASET ACCESS REPORT
### HRS SALARY REVIEW ACCESS
#### BY NAME

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NOVELL FILE SERVER
EXTRACT/COMPARE
FLOW DIAGRAM
# MASS DATA SECURITY

## RIS RCP SECTION CHANGE REPORT #1

### BY NAME

<table>
<thead>
<tr>
<th>USER NAME</th>
<th>USERID</th>
<th>PROJ</th>
<th>JOB</th>
<th>COG ORG</th>
<th>CURR SECT</th>
<th>OLD SECT</th>
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Total Users: 6
MICROSOFT SQL SERVER
LOGIN ID EXTRACT
Window 3.1 SQL Tools Group

- Perform Security Administration on SQL Server Applications residing on OS/2 or Win NT Servers.

- Install SQL Administrator specifying Network Protocol, i.e. Novell IPX/SPX, TCP/IP, Name Pipes (default)
Access to the SQL Server

- Login to the SQL server as the SA (System Administrator/Supervisor)
SQL Administrator Window

- Select (Click on) “QUERY”
The Master Database contains the login Id data for the Server
SQL Command to Extract Logins

- Type in command and select (click on) "Execute"

- The subsequent screen provides the results of the query
<table>
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<tbody>
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<tr>
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</table>

1.1/216
Save Results to a File

- Resulting file is a fixed format text file, easily imported to a PDF
Alternate Method to Extract Logins from SQL

@Echo ON

ISQL IS {server name}/U sa /P {sa password}/Q " {select accdate, dbname,name,password from syslogins}" /o C:\Security\sqluser.txt

From a Windows workstation where SQL Tools are installed:

- Replace “server name” with the SQL Server, and “password” with the SA password
- Execute the above command as a Batch File from the DOS Prompt
## Resulting File

<table>
<thead>
<tr>
<th>AC CD DATE</th>
<th>DBNAME</th>
<th>NAME</th>
<th>PASSWORD</th>
</tr>
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<tbody>
<tr>
<td>JAN 1 1900 12:00 AM</td>
<td>MASTER</td>
<td>SA</td>
<td>******</td>
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<tr>
<td>MAR 14 1994 10:46 AM</td>
<td>MASTER</td>
<td>PROBE</td>
<td>(NULL)</td>
</tr>
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**Current release of SQL Server (v4.2.1), passwords are not encrypted!**
APPENDICES

- Program Code
- File Definitions