

ASG-Recap™ Installation Guide

Version 7.0

Publication Number: RCX0300-70

Publication Date: February 2003

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Preface

This *ASG-Recap Installation Guide* provides information for installing and maintaining ASG-Recap (herein called Recap). Recap is the Portfolio Analysis component of the ASG-Existing Systems Workbench (herein called ESW), which automates the time consuming and error prone process of conducting an inventory analysis of COBOL applications within an MIS environment.

Allen Systems Group, Inc. (ASG) provides professional support to resolve any questions or concerns regarding the installation or use of any ASG product. Telephone technical support is available around the world, 24 hours a day, 7 days a week.

ASG welcomes your comments, as a preferred or prospective customer, on this publication or on any ASG product.

About this Publication

This publication consists of these chapters:

- [Chapter 1, "Introduction,"](#) discusses the concepts of Recap.
- [Chapter 2, "Recap Customization,"](#) describes customization of specific Recap components, invoking Recap, and validating the installation.

Related Publications

The documentation library for ASG-Recap consists of these publications (where *nn* represents the product version number):

- *ASG-Application Definition and Analysis User's Guide (ALL0200-*nn*)* describes defining and analyzing an application in ASG-Alliance, ASG-Recap, and ASG-Estimate.
- *ASG-Center Installation Guide (CNX0300-*nn*)* provides installation and customization procedures for ASG-Center, the common platform for all ASG-ESW components. ASG-Center must be installed before installing ASG-Recap.
- *ASG-ESW Enhancement Summary (ESW1000-*nn*)* highlights the new functionality for this release.
- *ASG-Recap Installation Guide (RCX0300-*nn*)* provides information for installing and maintaining ASG-Recap.
- *ASG-Recap User's Guide (RCX0200-*nn*)* provides instructions for using ASG-Recap for application definition and report generation.

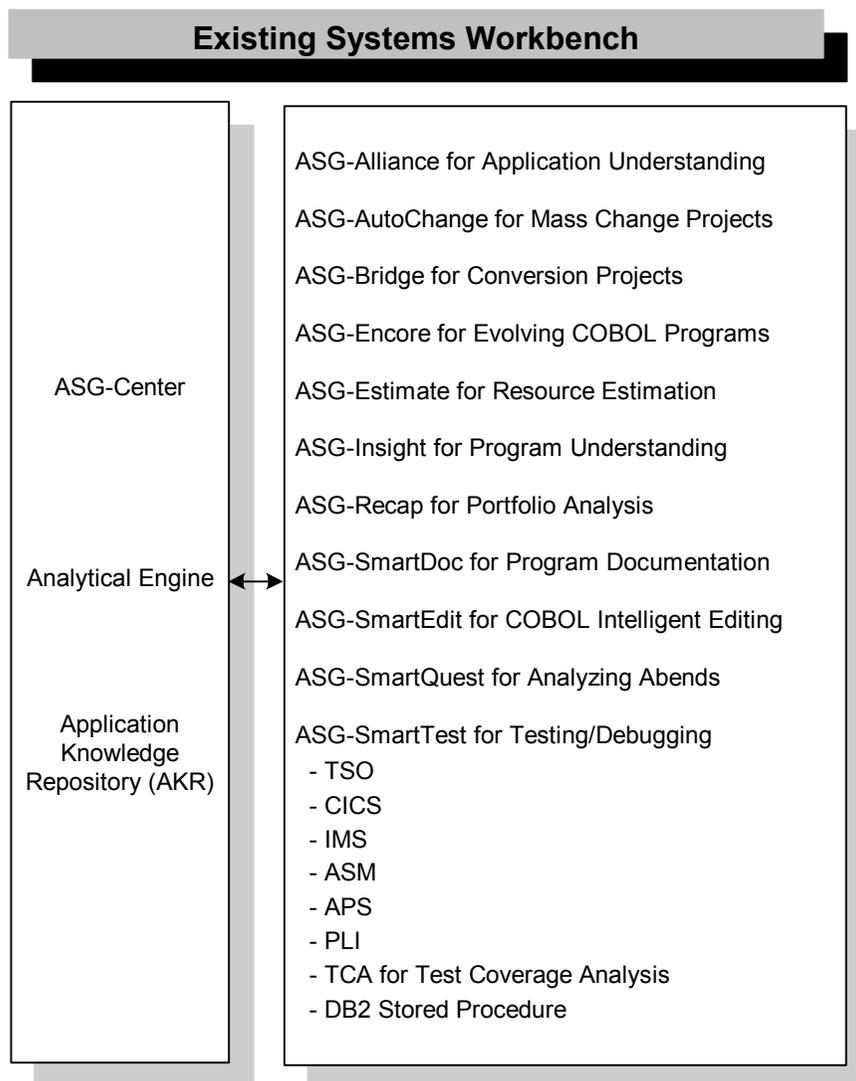
Note: _____

To obtain a specific version of a publication, contact ASG Customer Support.

ASG-Existing Systems Workbench (ASG-ESW)

ASG-ESW (herein called ESW) is an integrated suite of components designed to assist organizations in enhancing, redeveloping, or re-engineering their existing systems. ESW products use the Application Knowledge Repository (AKR) to store source program analysis information generated by the Analytical Engine. [Figure 1](#) represents the components of ESW.

Figure 1 • ASG Existing Systems Workbench



This table contains the name and description of each ESW component:

ESW Product	Herein Called	Description
ASG-Alliance	Alliance	The application understanding component that is used by IT professionals to conduct an analysis of every application in their environment. Alliance supports the analysis and assessment of the impact of change requests upon an entire application. Alliance allows the programmer/analyst to accurately perform application analysis tasks in a fraction of the time it would take to perform these tasks without an automated analysis tool. The impact analysis from Alliance provides application management with additional information for use in determining the resources required for application changes.
ASG-AutoChange	AutoChange	The COBOL code change tool that makes conversion teams more productive by enabling quick and safe changes to be made to large quantities of code. AutoChange is an interactive tool that guides the user through the process of making source code changes.
ASG-Bridge	Bridge	The bridging product that enables field expansion for program source code, without being required to simultaneously expand the fields in files or databases. Because programs are converted in smaller groups, or on a one-by-one basis, and do not require file conversion, testing during the conversion process is simpler and more thorough.
ASG-Center	Center	The common platform for all ESW products. Center provides the common Analytical Engine to analyze the source program and store this information in the AKR. This common platform provides a homogeneous environment for all ESW products to work synergistically.

ESW Product	Herein Called	Description
ASG-Encore	Encore	The program re-engineering component for COBOL programs. Encore includes analysis facilities and allows you to extract code based on the most frequently used re-engineering criteria. The code generation facilities allow you to use the results of the extract to generate a standalone program, a callable module, a complement module, and a CICS server. Prior to code generation, you can view and modify the extracted Logic Segment using the COBOL editor.
ASG-Estimate	Estimate	The resource estimation tool that enables the user to define the scope, determine the impact, and estimate the cost of code conversion for COBOL, Assembler, and PL/I programs. Estimate locates selected data items across an application and determines how they are used (moves, arithmetic operations, and compares). Time and cost factors are applied to these counts, generating cost and personnel resource estimates.
ASG-Insight	Insight	The program understanding component for COBOL programs. Insight allows programmers to expose program structure, identify data flow, find program anomalies, and trace logic paths. It also has automated procedures to assist in debugging program abends, changing a computation, and resolving incorrect program output values.
ASG-Recap	Recap	The portfolio analysis component that evaluates COBOL applications. Recap reports provide function point analysis and metrics information, program quality assessments, intra-application and inter-application comparisons and summaries, and historical reporting of function point and metrics information. The portfolio analysis information can also be viewed interactively or exported to a database, spreadsheet, or graphics package.
ASG-SmartDoc	SmartDoc	The program documentation component for COBOL programs. SmartDoc reports contain control and data flow information, an annotated source listing, structure charts, program summary reports, exception reports for program anomalies, and software metrics.

ESW Product	Herein Called	Description
ASG-SmartEdit	SmartEdit	The COBOL editing component that can be activated automatically when the ISPF/PDF Editor is invoked. SmartEdit provides comprehensive searching, inline copybook display, and syntax checking. SmartEdit allows you to include an additional preprocessor (for example, the APS generator) during syntax checking. SmartEdit supports all versions of IBM COBOL, CICS, SQL, and CA-IDMS.
ASG-SmartQuest	SmartQuest	The diagnostic tool for analyzing batch and CICS transaction abends. SmartQuest has been designed to make the maximum use of simple point-and-shoot techniques to enable fast and easy navigation through any data dump.
ASG-SmartTest	SmartTest	The testing/debugging component for COBOL, PL/I, Assembler, and APS programs in the TSO, MVS Batch, CICS (including file services), and IMS environments. SmartTest features include program analysis commands, execution control, intelligent breakpoints, test coverage, pseudo code with COBOL source update, batch connect, disassembled object code support, and full screen memory display.

Invoking ESW Products

The method you use to invoke an ESW product depends on your system setup. If you need assistance to activate a product, see your systems administrator. If your site starts a product directly, use the ISPF selection or CLIST as indicated by your systems administrator. If your site uses the ESW screen to start a product, initiate the ESW screen using the ISPF selection or CLIST as indicated by your systems administrator and then typing in the product command on the command line.

The product names can also vary depending on whether you access a product directly or through ESW. See ["ESW Product Integration" on page ix](#) for more information about using ESW.

To initialize ESW products from the main ESW screen, select the appropriate option on the action bar pull-downs or type the product shortcut on the command line.

Product Name (ESW Name)	Shortcut	ESW Pull-down Options
Alliance (Application Understanding)	AL	Understand ▶ Application
AutoChange (Conversion Set)	CC	Change ▶ Conversion Set
Bridge	BR	Change ▶ ASG-Bridge
Encore (Program Re-engineering)	EN	Re-engineer ▶ Program
Estimate	ES	Measure ▶ ASG-Estimate
Insight (Program Understanding)	IN	Understand ▶ Program
Recap (Portfolio Analysis)	RC	Measure ▶ Portfolio
SmartDoc (Program Documentation)	DC	Document ▶ Program
SmartEdit	SE	Change ▶ Program Or Change ▶ Program with Options
SmartQuest	SQV	Understand ▶ Abend/Dump
SmartTest (Testing/Debugging)	ST	Test ▶ Module/Transaction

ESW Product Integration

Because ESW is an integrated suite of products, you are able to access individual ESW products directly, or through the main ESW screen. As a result, different fields, values, action bar options, and pull-down options display on a screen or pop-up depending on how you accessed the screen or pop-up.

Certain ESW products also contain functionality that interfaces with other ESW products. Using SmartTest as an example, if Alliance is installed, SmartTest provides a dynamic link to Alliance that can be used to display program analysis information. If Insight is installed and specified during the analyze, the Insight program analysis functions are automatically available for viewing logic/data relationships and execution path. For example, the Scratchpad option is available on the Options pull-down if you have Insight installed.

The actions shown on these screens can also vary. For example, the D - Doc Options action is only available on the File Prepare Program screen (or File - Analyze Submit screen) if SmartDoc is installed on your system. In [Figure 4 on page xi](#), the Doc Options action is not displayed.

Figure 5 • ASG-ESW - Prepare Program Screen (accessed through ESW)

```

ASG-ESW - Prepare Program
Command ==> -----
          E - Edit JCL   S - Submit JCL   D - Doc Options
Compile and link JCL (PDS or sequential):
Data set name -----
Analyze features (Y/N):
  Understand: N  Test: Y  Extended Analysis: N  Document: N
  Re-engineer: N  Abend/Dump: N
AKR data set name -----
AKR program name  NEUDEMO ----- (if overriding PROGRAM-ID)
Analyze options:
-----
-----
Compile? (Y/N) . . . . . Y      (Y if needed by features)
Link load module reusable? (Y/N) Y      (Test and Abend/Dump only)
    
```

Notice that the Analyze features field in [Figure 5](#) lists additional ESW products than shown on [Figure 4 on page xi](#). This field is automatically customized to contain the ESW products you have installed on your system. These are the names of the analyze types:

Analyze Type	Analyze Type (ESW)
ASG-Encore	Re-engineer
ASG-Insight	Understand
ASG-SmartDoc	Document
ASG-SmartQuest	Abend/Dump
ASG-SmartTest	Test
Extended Analysis (ASG-SmartTest with Insight installed)	Extended Analysis

Publication Conventions

ASG uses these conventions in technical publications:

Convention	Represents
ALL CAPITALS	Directory, path, file, dataset, member, database, program, command, and parameter names.
Initial Capitals on Each Word	Window, field, field group, check box, button, panel (or screen), option names, and names of keys. A plus sign (+) is inserted for key combinations (e.g., Alt+Tab).
<i>lowercase italic monospace</i>	Information that you provide according to your particular situation. For example, you would replace <i>filename</i> with the actual name of the file.
Monospace	Characters you must type exactly as they are shown. Code, JCL, file listings, or command/statement syntax. Also used for denoting brief examples in a paragraph.
Vertical Separator Bar () with underline	Options available with the default value underlined (e.g., Y <u>N</u>).
<u>Underline</u>	Denotes a cursor-selectable field or line.

ASG Customer Support

ASG provides support throughout the world to resolve questions or problems regarding installation, operation, or use of our products. We provide all levels of support during normal business hours and emergency support during non-business hours.

ASG Third-party Support. ASG provides software products that run in a number of third-party vendor environments. Support for all non-ASG products is the responsibility of the respective vendor. In the event a vendor discontinues support for a hardware and/or software product, ASG cannot be held responsible for problems arising from the use of that unsupported version.

Intelligent Support Portal (ISP)

Online product support is available at: <http://www.asg.com/support/support.asp> via the ASG Intelligent Support Portal (ISP). Your logon information for ISP online support is:

Customer ID = *NNNNNNNNNN*

Password = *XXXXXXXXXX*

where:

NNNNNNNNNN is your customer ID supplied by ASG Product Distribution.

XXXXXXXXXX is your unique password supplied by ASG Product Distribution.

The *ASG-Intelligent Support Portal User's Guide* provides instructions on how to use the ISP and is located on the ASG Support web page.

Telephone Support

To expedite response time, please have this information ready:

- Product name, version number, and release number
- List of any fixes currently applied
- Any alphanumeric error codes or messages written precisely as displayed
- A description of the specific steps that immediately preceded the problem
- Verify whether you received an ASG Service Pack or cumulative service tape for this product. It may include information to help you resolve questions regarding installation of this ASG product. The Service Pack instructions are in a text file on the distribution media included with the Service Pack. You can access the latest software corrections and Service Packs via the ISP.
- The severity code (ASG Customer Support uses an escalated severity system to prioritize service to our clients. The severity codes and their meanings are listed below.)

Severity Codes and Expected Support Response Times

Severity	Meaning	Expected Support Response Time
1	Production down, critical situation	Within 30 minutes
2	Major component of product disabled	Within 2 hours
3	Problem with the product, but customer has work-around solution	Within 4 hours
4	"How-to" questions and enhancement requests	Within 4 hours

The Americas

	Phone	Fax	E-mail
United States and Canada	800.354.3578	1.703.464.4901	support@asg.com

Europe, Middle East, and Africa (EMEA)

During normal business hours, we recommend that you call the Central Support number first (except in South Africa).

	Phone	Fax	E-mail
Central Support	00.800.3544.3578	44.1727.812018	support.emea@asg.com
English	44.1727.736305	44.1727.812018	support.uk@asg.com
French	33.141.028590	33.141.028589	support.fr@asg.com
German	49.89.45716.200	49.89.45716.400	support.de@asg.com
Italian	39.0290450025		support.it@asg.com
Dutch	31.30.241.6133		support.nl@asg.com
Spanish	34.913.523.800	34.917.156.961	support.es@asg.com
South Africa	800.201.423		support.sa@asg.com

Asia Pacific (APAC)

	Phone	Fax	E-mail
Central Support	61.3.9645.8500	61.3.9645.8077	support.au@asg.com
Australia	800.637.947	61.3.9645.8077	support.au@asg.com
Hong Kong	800.96.2800		support.hk@asg.com
Japan	81.3.5326.3684	81.3.5326.3001	support.au@asg.com
Singapore	65.224.3080	65.224.8516	support.sg@asg.com

All Other Countries (Also for any non-working numbers)

	Phone	Fax	E-mail
All other countries	1.239.435.2201		support@asg.com

If you receive a voice mail message, follow the instructions to report a production-down or critical problem. Leave a detailed message including your name and phone number. An ASG Customer Support representative will be paged and will return your call as soon as possible. Please have available the information described previously when the ASG Customer Support representative contacts you.

ASG Documentation/Product Enhancements

Submit all product and documentation suggestions to ASG's product management team at <http://www.asg.com/asp/emailproductsuggestions.asp>.

If you do not have access to the web, FAX your suggestions to product management at (239) 263-3692. Please include your name, company, work phone, e-mail ID, and the name of the ASG product you are using. For documentation suggestions include the publication number located on the publication's front cover.

1

Introduction

This chapter discusses the concepts of Recap and contains these sections:

Section	Page
ASG Service Pack	1
Recap Concepts	2
Recap Features	2
Operating Environment	3

Note: _____

Center installation and customization must be performed before installing Recap. If Center has not been installed, see the *ASG-Center Installation* Guide at this time.

ASG Service Pack

Verify whether you received an ASG Service Pack for this product. If so, read the instructions for installing the Service Pack before proceeding with the product installation. The installation instructions are located in the text file on the distribution media included with the Service Pack. If you have any problems with the Service Pack, contact ASG Customer Support.

Recap Concepts

Recap provides IT professionals with an automated tool to conduct an inventory analysis of every COBOL application in their environment. Using industry-accepted measures, Recap analyzes an application and provides:

- Metrics data
- Function point analysis
- Program quality assessments
- Intra-application and inter-application comparisons and summaries
- The ability to track the impact of process improvements and specific program changes and enhancements.

Data generated from a Recap analysis can be presented in easy-to-read report formats. Recap also provides an export facility to export inventory analysis data to spreadsheets, database managers, and presentation packages. In these formats, you can easily access the information to support these management activities:

- Information service quality and productivity measurement and improvement programs.
- Feasibility, selection, and cost benefit of redevelopment and/or re-engineering projects.
- Allocation and justification of resources.
- Scheduling of new software development projects.
- Scheduling of software maintenance and enhancement.

Recap Features

Recap provides an automated method to perform an inventory analysis of every COBOL application in an MIS environment. Recap has an interactive user interface for creating and viewing this information:

- Viewing the inventory analysis information generated from the analysis
- Adjusting the function point analysis data

Operating Environment

Recap has these mainframe environment requirements:

- MVS/XA, MVS/ESA, or OS/390
- VSAM or sequential file for the ESW AKR.
- Storage above the 16MB line is used for load modules and GETMAINs.
- Direct Access storage. (See the *ASG-Center Installation Guide* for quantities).
- 3270 type terminals; Models 2, 3, 4, or 5

COBOL Compiler Support

Recap supports these COBOL compilers:

- COBOL/370
- COBOL II (including releases 3 and 4)
- ANSI COBOL
- CASE Generated COBOL
- COBOL for MVS and VM
- COBOL for OS/390

Preprocessor Support

Recap supports these preprocessor languages directly:

- Command Level CICS
- Command Level DL/I
- IDMS
- SQL

Note: _____

Other preprocessed languages are not recognized, but can be supported from the generated COBOL code.

2

Recap Customization

This chapter describes customization of the specific Recap components, invoking Recap, validating the installation, and contains these sections:

Section	Page
Prerequisite	5
Step 1 - Modifying CNTL Library Members	6
Step 2 - Adding Recap Load Modules to MLPA/PLPA	8
Step 3 - Customizing Panvalet, Librarian or User Source Manager	9
Step 4 - Invoking Recap	11
Step 5 - Validating Recap	12

Prerequisite

Center installation and customization must be performed before customizing Recap.

Note: _____

If Center has not been installed, see the *ASG-Center Installation Guide* at this time.

Step 1 - Modifying CNTL Library Members

Note: _____

An installation checkout form is included in "[Installation Checkout](#)" on page 17 to assist in the installation.

To install the Recap sample AKR, follow this step:

- ▶ Modify and execute VIAXIAKR JCL by specifying the correct values for these parameters:

Parameter	Value
PERMUNT	Specify the default unit device name used for allocating the sample AKR dataset. The default value is SYSDA.
PERMVOL	Specify the volume serial used for the AKR dataset. By default, there is no volume serial number.
SAMPAKR	Specify the dataset name for the sample AKR. The default is ASG.RCPSAMP.AKR.
SPPRIM	Primary space value. The default is 500.
SPSECD	Secondary space value. The default is 100.
SYSOUT	Specify the correct SYSOUT character.
TAPEVOL	Comment or uncomment the TAPEVOL statement to indicate whether you have one or two product install tapes.
TAPEUNT	Specify the tape unit device name.

To override the default Recap installation options

- 1 Edit VIASPRMX (the Recap installation options member), and modify or add the appropriate options.

Note: _____

See the installation options appendix in the *ASG-Center Installation Guide* for information on changing the installation option default values.

These are the specific Recap installation option parameters:

Parameter
Report-Appl-Comparison
Report-Appl-Definition
Report-Appl-Exception
Report-Appl-FunctionPoint
Report-Appl-Metrics
Report-Appl-Progress
Report-Enterprise-Exception
Report-Enterprise-Metrics
Report-Executive-Summary
Reports-Lines-Per-Page
Report-Pgm-Comparison
Report-Pgm-Metric-History
Report-Program-Progress

Recap users may override installation options when they are generating reports by adding parameters to the execution JCL.

Note:

By default, the Recap Executive Summary is printed in mixed case using the text in CNTL member VIAXESUM. An upper case version of the Executive Summary is included in the CNTL dataset as member VIAXESUU. Each user can change the during execution of the product. To make the change, select File ► Options from the File - Reports pop-up and specify the desired member name.

- 2 Modify VIA\$PRMS, the Center default installation options CNTL member, to override installation default options.

These are the parameters found in VIA\$PRMS that relate to Recap:

Parameter
Character-Colon
Character-Vertical-Bar
Report-Banner-Page
Report-Master-Index

The installation option required for the Workstation Server is in ASG.VIACEN_{xx}.CNTL and shown below. Modify this option to fit your specific requirements.

```
Work-SYSDA=SYSDA
```

Specify the default unit device name used for allocating a temporary dataset. The default value is SYSDA.

Step 2 - Adding Recap Load Modules to MLPA/PLPA

The Recap main load modules VIAXBTCH and VIAXMAIN are re-entrant, and available for location in Extended LPA. These are the advantages of using Extended LPA:

- A reduction of the memory requirement per user
- An overall decrease in required swap space
- Performance improvements

Moving these modules to MLPA/PLPA is optional. It is recommended that the original ESW load library (from the installation tape) be kept as a staging library so that any required PTFs can easily be applied. You can copy the re-entrant modules to Extended LPA and the non-reentrant modules to a separate user library. These steps also require changes to user logons or product allocations. The CNTL library contains two members, VIASLPAJ and VIASLPXJ, that you can use to do these copy steps.

Note: _____

Do not use the ISPF 3.3 copy feature to copy these modules because some of them have aliases.

Step 3 - Customizing Panvalet, Librarian or User Source Manager

Panvalet Customization

To customize Panvalet

Note: _____

Do not perform [step 1](#) if you are using Panvalet R12 or above, and the module PAM is available in LINKLST or LPA.

- 1 Edit CNTL member VIASPAMJ and specify a valid JOB card and the correct values for these parameters:

Parameter
VIASOFT
ASMBLR
CENTER
PANLIB
SYSOUT
SYSDA

- 2 Submit this job to assemble and link-edit the Panvalet VIASPAM module.

Note: _____

If Panvalet requires changes to its customized edit panel, these changes may need to be included in the ESW panels VSPENPAN, VSPE2PAN, and VSPEDPAN. If this situation occurs, contact ASG Customer Support for instructions

If the Panvalet load library is allocated under ISPLLIB and the LIBDEF facility is used, WTP generated MEMBER NOT FOUND warning messages display each time you select a Panvalet member. Try these alternatives to correct the problem:

- Adding Encore allocations to LOGON and bypassing LIBDEF processing.
- Adding the Panvalet load library allocation to VIALLIB in LIBDEF processing.
- Setting WTPMSG OFF (not recommended).

Librarian Customization

To customize Librarian

- 1 Edit CNTL member VIASFAIJ and specify a valid JOB card and the correct values for these parameters:

Parameters
VIASOFT
ASMBLR
CENTER
LIBRLIB
LIBRMAC
SYSOUT
SYSDA

- 2 If you are running on Librarian R3.9, edit CNTL member VIASFAIR and comment out the four lines containing these delete statements:

```
DELETE EPLOC=XFAIROPN
DELETE EPLOC=XFAIRMOD
DELETE EPLOC=XFAIRREC
DELETE EPLOC=XFAIRCLS
```

- 3 Submit this job to assemble and link edit the Librarian VIASFAIR module.

If Librarian requires changes to its customized edit panel, these changes may need to be included in the ESW panels VSPENLIB, VSPEDLIB, and VSPE2LIB. If this situation occurs, contact ASG Customer Support for instructions.

If the Librarian load library is allocated under ISPLLIB and the LIBDEF facility is not used, WTP MEMBER NOT FOUND warning messages display each time you select a Librarian member. Try these alternatives to correct the problem:

- Adding Encore allocations to LOGON and bypassing LIBDEF processing.
- Adding the Librarian load library allocation to VIALLIB in LIBDEF processing.
- Setting WTPMSG OFF (not recommended).

Other Source Managers

To support user developed or other vendor developed source managers

- 1 Modify the distributed CLIST VIAEDUSR according to the instructions in the CLIST. The panels that may need to be customized are VSPEDUSR, VSPE2USR, and VSPENUSR.
- 2 You can make changes to the Options - COPY/Include Libraries screen (VEPEOPTS) to reflect the alternate source manager and dataset or member names used.

Step 4 - Invoking Recap

Note: _____

Proceed to ["Step 5 - Validating Recap" on page 12](#) if the ESW products menu has already been installed.

To invoke Recap from an ISPF panel, follow this step:

- ▶ Use these panel definition cards to add a Recap option to the ISPF Primary Menu or another dialog menu. This line can be used to describe the Recap option to the user:

```
% S +Recap - ASG Application Inventory Analysis Tool
```

This line can be used to invoke Recap based on the user selection of the letter S:

```
S, 'CMD(%RECAP) NEWAPPL(VIAX)'
```

Note: _____

After updating the ISPF environment, it may be necessary to re-enter ISPF before the facilities are available.

To invoke Recap with a CLIST, follow this step:

- ▶ Type `TSO VIARECAP` on the command line in the ESW primary panel and press Enter.

Step 5 - Validating Recap

To verify that the installation completed successfully

Note: _____

The dataset names used in these validation steps are the default installed names. If you have changed them, use the changed names where the default names have been specified.

- 1 To test the logon library allocations, enter Recap by selecting one of these options:
 - If you installed Recap as described in ["Step 4 - Invoking Recap" on page 11](#), use the appropriate ISPF menu selection or the CLIST.
 - If you installed the ESW product menu as described in the *ASG-Center Installation Guide*, use the appropriate ISPF menu selection or the CLIST to display the ESW product primary screen. Select Measure ▶ Portfolio to display the Recap primary screen.
 - If you start Recap using the ESW product primary screen, the product name displays as ESW - Portfolio Analysis.
- 2 Select Help ▶ About from the Recap Primary screen and press Enter. Verify the product releases and levels of Recap and Center that have been installed.
- 3 Press PF3/15 to exit the Help - About pop-up.

To review or modify the product parameters

- 1 Select Options ► Product parameters from the Recap Primary screen and press Enter to display the Options - Product Parameters pop-up.
- 2 Review or modify the product parameters
- 3 Press PF3 to exit.

To review or modify the product allocations

- 1 Select Options ► Product allocations from the Recap Primary screen and press Enter to display the Options - Product Allocations pop-up.
- 2 Review or modify the product allocations.
- 3 Press PF3 to exit.

To review or modify the Log file defaults

- 1 Select Options ► Log/List from the Recap Primary screen and press Enter to display the Options - Log/List Definition pop-up.
- 2 Enter the JOB statement information.
- 3 Press PF3 to exit.

To review or modify the PF key definitions

- 1 Select Options ► PF keys from the Recap Primary screen and press Enter to display the Options - PF Key Definition pop-up.
- 2 Review or modify the PF key definitions.
- 3 Press Enter to switch between PF keys 1 through 12 and 13 through 24.
- 4 Press PF3/15 to exit the Options - PF Key Definition pop-up.

To allocate an AKR

- 1 Select File ► AKR utility from the Recap Primary screen and press Enter to display the File - AKR Utility pop-up.

Note: _____

If you have already created an AKR when validating another ESW product, proceed to [step on page 15](#).

- 2 Enter the name of an AKR to be allocated.
- 3 Type A in the command input area and press Enter. the File - AKR Allocate/Expand pop-up displays.

Note: _____

The fields on the File - AKR Allocate/Expand pop-up vary depending on the settings for the installation options AKR-DSORG-VSAM and SMS in the Center installation options file.

- 4 Verify that the AKR name is correct.
- 5 Enter the appropriate values for the Management Class, Storage Class, and Data Class if you are using SMS managed datasets.

If you did not specify SMS managed datasets in the installation options file while installing Center, the fields pertaining to SMS do not display. In that case, enter these values as required:

- Type the value for VOLUME where the permanent AKR is to be placed.
- Review the Space Units and Space Amount values.
- Type the appropriate UNIQUE parameter for the volume selected if you are allocating a VSAM AKR.
- If this dataset needs to be cataloged under a user catalog, type C in the command input area to display the AKR Catalog Information pop-up. Enter the Catalog DSN and password as required and press PF3 to exit.
- Type the JOB statement information for your site and submit the job by typing S in the command input area.
- Verify that the AKR was successfully allocated and initialized.
- Press PF3 (END) until you reach the Recap Primary screen.

Once allocated, the AKR allocate utility has been validated. [Figure 6](#) shows the File - AKR Allocate/Expand pop-up using SMS and a VSAM AKR.

Figure 6 • File - AKR Allocate/Expand with SMS and a VSAM AKR

```

File - AKR Allocate/Expand
Command ==> _____
          S - Submit JCL      E - Edit JCL      C - Specify Catalog

Expand existing AKR . . . NO          (Yes or No)

AKR data set name . . . . 'USER.TEST.AKR'
Volume . . . . . _____
Unit . . . . . _____          (Generic unit name)
Space units . . . . . RECORDS      (Records, Tracks or Cylinders)
Primary space . . . . . 4000        (Primary amount in above units)
Secondary space . . . . . 0         (Secondary amount in above units)

Job statement information:
//NAME      JOB (ACCOUNT),'NAME' ,
//          MSGCLASS=A
//          INSERT '/*ROUTE PRINT NODE.USER' HERE IF NEEDED.
//          /*

```

To open the application from the sample AKR

- 1 Select File ► Open application from the Recap Primary screen and press Enter (see ["Step 1 - Modifying CNTL Library Members" on page 6](#)). The File - Open Application pop-up displays.
- 2 Type ASG.RCPSAMP.AKR (the sample AKR) in the AKR dataset name field.
- 3 Type SALES in the Application Name field.
- 4 Press Enter. The Application Maintenance Facility displays.
- 5 Press PF3 to return to the Primary screen.

To run the reports of the opened application

- 1 Select File ► Reports from the Recap Primary screen and press Enter.
- 2 Press PF6 (submit JCL) to display the Submit - Report Close Confirmation screen.
- 3 Press Enter to continue.
- 4 Route the reports job SYSOUT to the printer(s) that are normally used to print Recap reports.

- 5** Separate the Recap reports from the rest of the job output.
- 6** Review the reports to ensure proper formatting. If the printer to be used does not provide vertical bars or colons, it may be necessary to provide replacement characters in the default options.

Note: _____

See the *ASG-Center Installation Guide* for details about replacement character install options.

The customization and checkout of Recap is complete.

Appendix A

Installation Checkout

Company: _____

Installer: _____

Date: _____ / _____ / _____

AKR Utility Test

OK	Pending	Action
_____	_____	Perform these actions on the AKR Utilities pop-up:
_____	_____	<ul style="list-style-type: none">• Allocate a new temporary AKR.
_____	_____	<ul style="list-style-type: none">• Expand the new temporary AKR using the EDIT JCL option on the AKR Allocation pop-up.
_____	_____	<ul style="list-style-type: none">• Delete the temporary AKR by entering this on the command line: TSO DELETE 'temporary.akr.dsn'

Product Test

Note: _____

Testing the Application Analyzer requires loading all variations of COBOL, source managers, and preprocessors into the AKR.

OK	Pending	Action
_____	_____	Run all Recap reports for the SALES application within the Recap demonstration AKR, ASG.RCPSAMP.AKR. This AKR is downloaded using the JCL in 'ASG.VIACEN _{xx} .CNTL(VIAXIAKR)', where _{xx} is the current release. Print the Recap reports and verify formatting.
_____	_____	Define a few user applications. Include programs from different source libraries using different copy libraries with various compile parameters and levels of COBOL.
_____	_____	Analyze and run all Recap reports for the defined user applications to test the preprocessors and source managers. Print the Recap reports and verify formatting. Once all user applications have been successfully tested, delete the demo applications from the AKR using the AKR Directory pop-up or the VIASAKRU JCL.
_____	_____	Reanalyze and run all Recap reports for a user-defined application. Print the Recap reports and verify formatting. Verify that the old and new values are shown on each of the Metrics History graphs, as well as the date the graph was requested for generation.

Log File Test

OK	Pending	Action
_____	_____	Enter the KEYS command to verify that the default PF key assignments match those shown in the <i>ASG-Recap User's Guide</i> .
_____	_____	Test the log file allocation using DEBUG LOG to force the log file allocation. Follow that command with the PRODLVL command to force output to the log file.
_____	_____	Test the log file job submission facility by selecting Options ► LOG/LIST from the Options pull-down, typing 1, and then pressing Enter to release the log file to print.
_____	_____	Edit and submit the VIASAKRX JCL to test the AKR expansion job. Verify that the VIASAKRX job ran successfully.

The installation is now complete.

Appendix B

Recap CNTL and CLIST Members

Recap CNTL Members

Member	Description
VIA\$PRMX	Recap installation option parameters
VIAXESUM	Report generator text used to produce the Executive Summary Report
VIAXIAKR	JCL to install the Recap sample AKR
VIAXIMPT	Sample import definition

Recap CLIST Members

Member	Description
RECAP	Used by the VIARECAP CLIST to invoke the Recap product from native TSO.
VIAXTEST	Invokes the Recap program under TSO test for diagnostic purposes only.
VIARECAP	Invokes the Recap program from a CLIST using the correct application ID (VIAX).
VIAXJCLE	Displays JCL and errors when a JCL error has been detected during JCL extraction.

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