

IBM Breeze for SCLM for z/OS



Planning and Administration Guide

Release 1

IBM Breeze for SCLM for z/OS



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Release 1

Note

Before using this document, read the general information under "Notices" on page 47.

Seventh Edition (October 2004)

This edition applies to Release 1 of the licensed program IBM Breeze for SCLM for z/OS (program number 5697-G58) and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this book

This book describes how to use the batch utilities supplied with IBM Breeze for SCLM for z/OS (“Breeze”) to:

- Define approvers (only required if your site uses Breeze to vote on package promotion)
- Create package reports
- Reset the status of a package, delete its votes, or purge it completely from the Breeze database
- Notify users (not only approvers) when a developer requests a package promotion
- Vote on the promotion of packages for which you are an approver (if your site uses Breeze for voting)

This book assumes that Breeze has already been installed, as described in the *Breeze Program Directory* and *Breeze Installation Guide*.

Who should read this book

This book is aimed at:

- The Breeze administrator, who is responsible for defining approvers (if required), creating reports and other administrative tasks (such as resetting package status, deleting votes or purging packages). Ideally, the Breeze administrator is the person who installed Breeze.
- Approvers who want to use the voting batch utility, instead of the Breeze Web interface, to vote on packages.

If you are an approver, and you want to use the Breeze Web interface instead of the voting batch utility, then see the *Breeze User’s Guide*.

What you should already know

This book assumes that you understand SCLM promotion and the structure of SCLM high-level architecture members.

This book also assumes that you understand JCL and know how to submit batch jobs.

Terminology used in this book

For definitions of Breeze terms used in this book (such as *package* and *approver*), see the “Glossary” on page 49.

Related information

For an introduction to Breeze, see the *Breeze Functional Overview*.

For the latest information about Breeze, go to www.ibm.com/software/awdtools/sclmsuite/breeze/

For information about using SCLM, see the *SCLM Project Manager's and Developer's Guide*.

For other related information, see the "Bibliography" on page 51.

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Summary of changes

Seventh Edition (October 2004)

The following enhancements and changes have been made to Breeze for SCLM for z/OS Version 1 since the last release of the documentation:

- New Breeze Archival Process.
- New variables added that can be included in approval e-mails.
- New directive to allow users not to force a RESET on a promote failure.
- Support for 8-character UNIT name in CIGINI definition.
- Allow the Sweep job to support projects that utilize the FLMLRBLD macro.
- Enhancement to allow empty packages to be promoted. This is useful if Breeze has finished processing but, due to a problem, SCLM has not finished processing. This allows Breeze to promote an “empty” package so that SCLM completes its processing.
- Changes to the way the Browser starts such that you do not need to set the setting to refresh each time.
- Various minor technical corrections.

The following changes have been made to the Planning and Administration Guide since the last edition of this document:

- The sample JCL for BZZSMJS1 has been updated to accommodate projects using the FLMLRBLD macro.
- The syntax for BZZSMJD1 has been changed to incorporate the new EXTRACT function.
- A new chapter on the Breeze archival process has been included.

Sixth Edition (April 2004)

The following changes have been made to the Planning and Administration Guide documentation, since the last edition of this document:

- The sample JCL for BZZSMJU1 has been updated.

Fifth Edition (September 2003)

The following enhancements and changes have been made to Breeze for SCLM for z/OS Version 1 since the last release of the documentation.

- Various minor technical corrections.

The following changes have been made to the Planning and Administration Guide documentation, since the last edition of this document:

- The sample JCL for BZZSMJS1 has been updated.

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Chapter 1. Defining approver records

After installation, the only Breeze component that requires modification is the set of three record types that define approvers. You only need these records if your site wants to use Breeze to vote on package promotions, or notify users of package promotions. If your site wants to use Breeze only to view and record packages as they are promoted through the project hierarchy, then you do not need to modify Breeze after installation.

Note: There are a few other files that you can use to tailor Breeze after installation, if you choose. These are described in Chapter 3, “Advanced topics,” on page 33.

This chapter describes how to create the three record types required to use Breeze to vote on package promotions:

Inventory junction records

Link inventory locations (identified by SCLM project, group, type and language) with approver groups.

Approver group records

Define approver group names and quorums, which approvers they contain, and various attributes for each approvers role in the group (for example, whether an approver’s vote is required when deciding the final result of the group vote).

Individual approver user records

Define approvers, including their e-mail addresses, phone numbers and real names.

To get started, this chapter presents an example of how the data in the demo database was defined. It also provides some suggestions and worksheets to help you determine the inventory locations and approver groups for your projects.

Inventory locations

The concept of approver records in Breeze is based on two assumptions:

- Different users are responsible for different members in an SCLM project, depending on where the member is in the project hierarchy, and what kind of data the member contains
- You can identify who is responsible for a member by its “inventory location”: its SCLM project, group, type, language and member name

Before you can define approver records, you need to study the architecture of the SCLM projects at your site, and identify who is responsible for the members in each part of the architecture.

Inventory locations

For example, the figure below shows the hierarchy of groups in the SCLMTEST project. There are two development groups, DEV1 and DEV2. All source changes in the development groups are promoted to the TEST group for quality assurance (QA), then promoted to the RELEASE group for general release.

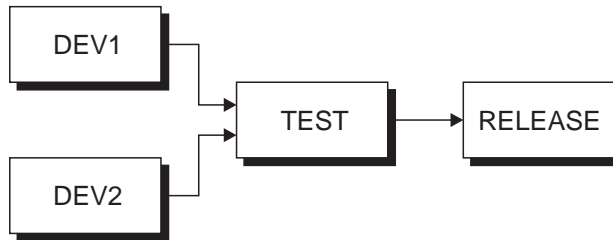


Figure 1. SCLMTEST project group hierarchy

Reviewing the project definition macro

To better understand the architecture of a project, you need to spend a little time reviewing the contents of the project definition macro (the setup module that defines all attributes for a project). Here is a listing of the sample SCLMTEST project definition, highlighting the key areas you need to review:

Type definitions

```
TITLE '*** PROJECT DEFINITION FOR SCLMTEST ***'
SCLMTEST FLMBEG
*
*
* *****
* * DEFINE THE TYPES *
* *****
*
ARCHDEF FLMTYPE
ARCHCC FLMTYPE , ARCHDEF (CC)
ARCHHL FLMTYPE , ARCHDEF (HL)
ARCHLEC FLMTYPE , ARCHDEF (LEC)
JCLLIB FLMTYPE , JCL
LMAP FLMTYPE , LINK LISTING
LOAD FLMTYPE , EXECUTABLES
OBJ FLMTYPE , OBJECTS
PACKAGE FLMTYPE , PACKAGE ARCHDEF
SOURCE FLMTYPE , SOURCE (COBOL AND ASSEMBLER)
SOURCLST FLMTYPE , ASSEMBLER AND COBOL LISTINGS
ISPPLIB FLMTYPE , ISPF PANELS
*
```

Group definitions

```
*
* *****
* * DEFINE THE GROUPS *
* *****
*
DEV1 FLMGROUP AC=(P),KEY=Y,PROMOTE=TEST
DEV2 FLMGROUP AC=(P),KEY=Y,PROMOTE=TEST
TEST FLMGROUP AC=(P),KEY=Y,PROMOTE=RELEASE
RELEASE FLMGROUP AC=(P),KEY=Y
*
```


Defining inventory locations

To define inventory junction records, you use Breeze batch utility commands. Each inventory junction record requires an inventory location and an approver group name. If a package contains any members from an inventory location specified in an inventory junction record, then the approver group (and all associated approvers) are assigned to approve or veto the package. Optional e-mail notification may be used to notify users that their vote is required.

Breeze interprets the inventory location that you specify in inventory junction records as the *source* location of members (before promotion). During approver group collection processing, Breeze looks at the source location of each valid member and then finds the associated inventory/approver group record.

Here is an example of a simple inventory definition used to build the demo database:

```
//STEP1 EXEC PGM=BZZFEXEC,PARM='BZZSAPIJ'
//STEPLIB DD DSN=BZZ.SBZZLOAD,DISP=SHR
//CIGLOG DD SYSOUT=*
//CIGRPT DD SYSOUT=*
//CIGIN DD *
  ASSIGN TO APPROVER GROUP = SYSGUYS
* MEMBER = *
  OF PROJECT = SCLMTEST
  ALTERNATE PROJECT = QAFIX
  GROUP = DEV1
  TYPE = SOURCE
  LANGUAGE = COB2
.
  ASSIGN TO APPROVER GROUP = OPSGUYS
* MEMBER = COBOL2
  OF PROJECT = SCLMTEST
  ALTERNATE PROJECT = QAFIX
  GROUP = DEV1
  TYPE = SOURCE
  LANGUAGE = TEXT
.
  ASSIGN TO APPROVER GROUP = PRODSUPPORT
* MEMBER = *
  OF PROJECT = SCLMTEST
  ALTERNATE PROJECT = QAFIX
  GROUP = DEV1
  TYPE = ISPLIB
  LANGUAGE = TEXT
.
```

Figure 2. Sample inventory definition

For more information on using the batch utility commands, see Chapter 2, “Batch utilities,” on page 11.

Approvers and approver groups

An approver is a user assigned to monitor source changes within a certain inventory location. An approver group is a group of 1-*n* users with e-mail and/or TSO SEND access that has been assigned to monitor a certain inventory location. Typically, the approver groups contain peer or management members of an application team. Then, as the package is promoted up the project hierarchy, the approver groups tend to be product control personnel and security.

The concept of approver groups is pretty standard across change management tools, and Breeze uses the standard approach with a few enhancements.

How Breeze identifies the approvers for a package

During the SCLM promote function, Breeze determines the inventory location of each source member in the package. If any of these inventory locations match Breeze inventory junction records, then Breeze uses the approver groups named in the inventory junction records to collect a list of approvers for the package. This is known as “content and approver collection”.

When you assign an approver to an approver group, you can nominate the approver as “required”. Within an approver group, every required approver must vote before the group vote can be decided as “approve” or “veto”.

For each approver group, you specify a “quorum”: the number of votes required before the group vote can be decided. The quorum must be equal to or greater than the number of required approvers in the group. (An approver group with required approvers cannot have a quorum of zero.)

Approve only once

An enhancement to typical approval processing is that Breeze has an “approve only once” option. This means that if the user has previously voted on the package when it was promoted from a lower group in the project hierarchy, then their vote will be reapplied to later requests for promotion. This allows the user to vote only once, and not be required for further intervention as the package is promoted up the project hierarchy.

Notifying approvers

When package promotion is requested, Breeze can notify users in two ways: e-mail and TSO SEND. Most organizations typically use both, because as indicated in the table below, not all managers have TSO access. Additionally, there is no reliable way to track and keep a record of messages that are sent via TSO SEND.

Type of notification	All managers have access	Trackable
E-mail	Yes	Yes
TSO SEND	No	No

However, not all managers or developers want to be e-mailed about pending approvals. They may prefer to check periodically from their desktop. The advantage to notification is that the message contains a link to the Breeze Web interface. Users can then just click on the link and go directly to the Web interface.

Whether or not users are notified is controlled in two ways. First, to shut off all notifications of approvers, do not provide a \$\$HTML member in SBZZJAVA, the trigger that e-mail is implemented for the product. (See the *Breeze Installation Guide* for more information on e-mail.)

To shut off e-mails for select users or groups, use the individual user ID attribute definitions to limit to TSO only.

Defining approvers

There is a batch utility for assigning approvers to approver groups, and another for defining the individual approvers.

The following example defines two approver groups (SYSGUYS, with a quorum of 2, and OPSGUYS, with a quorum of 1), assigns approvers to the groups, then defines the individual users. This example is a portion of the definition syntax used for the demo database. For information on the batch utility syntax, see Chapter 2, "Batch utilities," on page 11.

Sample syntax

```
//STEP2 EXEC PGM=BZZFEXEC,PARM='BZZSAPG1'
//STEPLIB DD DSN=BZZ.SBZZLOAD,DISP=SHR
//CIGLOG DD SYSOUT=*
//CIGRPT DD SYSOUT=*
//CIGIN DD *
ADD APPROVER GROUP = SYSGUYS
    QUORUM = 2

.
ADD APPROVER GROUP = SYSGUYS
    USERID = PSYSJ
    REQUIRED = Y
    APPROVE ONLY ONCE = Y
    NOTIFY ONLY = Y

.
ADD APPROVER GROUP = SYSGUYS
    USERID = PSYSX
    REQUIRED = N
    APPROVE ONLY ONCE = N
    NOTIFY ONLY = N

.
ADD APPROVER GROUP = OPSGUYS
    QUORUM = 1

.
ADD APPROVER GROUP = OPSGUYS
    USERID = PSYSB
    REQUIRED = Y
    APPROVE ONLY ONCE = Y
    NOTIFY ONLY = Y

.
ADD APPROVER GROUP = OPSGUYS
    USERID = PSYSL
    REQUIRED = N
    APPROVE ONLY ONCE = N
    NOTIFY ONLY = N

.
//STEP3 EXEC PGM=BZZFEXEC,PARM='BZZSAPU1'
//STEPLIB DD DSN=BZZ.SBZZLOAD,DISP=SHR
//CIGLOG DD SYSOUT=*
//CIGRPT DD SYSOUT=*
//CIGIN DD *
ADD
    APPROVER USER
    ID = PSYSW
```

Approvers and approver groups

```
NAME = 'HAVE A SPRITZER JR'  
PHONE = 708-536-9368  
EMAIL1 = 'HSPRITZER@MINDPSRING.COM'  
EMAIL2 = PSYSW  
TSOSEND = Y  
.  
APPROVER USER  
ID = PSYSL  
NAME = 'RALPH LAUREN'  
PHONE = 999-132-0912  
EMAIL1 = 'RLAUREN@BUTTERFLY.NET'  
EMAIL2 = PSYSL  
TSOSEND = Y  
.  
ADD  
APPROVER USER  
ID = PSYSX  
NAME = 'JUAN IMPRESO'  
PHONE = 402-678-9012  
EMAIL1 = 'JIMPRESO@BUTTERFLY.NET'  
EMAIL2 = 'FDHRC@YAHOO.COM'  
EMAIL3 = 'JIMPRESO@CAPECOD.NET'  
TSOSEND = N  
.
```

Approver definition worksheet

Use this worksheet to help define the approver groups.

Approver group	Quorum	Approver user ID	Vote required?	Approve only once?

Figure 4. Approver group definition worksheet

Use this worksheet to help define individual approvers.

User ID	E-mail	TSO only?	Approver group

Figure 5. Approver attribute worksheet

Chapter 2. Batch utilities

These utilities provide access to Breeze capabilities using batch jobs. In some cases, a single utility provides several functions via different command syntax or execution options.

Utility ¹	Description	See page
BZZSMJU1 ²	Updates individual approver records	14
BZZSMJG1 ²	Updates approver group records	15
BZZSMJIJ ²	Assigns and updates specific inventory locations for established approver groups	18
BZZSMJP1	Monitors source changes for notification purposes only	20
BZZSMJA1	Builds cross-reference list of users, packages, and approver groups	22
BZZSMJV1	Casts and tallies votes	23
BZZSMJD1	Deletes, extracts, purges or resets package records	24
BZZSMJ06	Runs package reports	27
BZZSMJS1	Promotes packages that are ready for promotion (package status is approved)	30

Notes:

1. These are the sample JCL member names in SBZZJCL.
2. When using these utilities to set up approvers, approver groups, and inventory junctions, please remember that the records are created and maintained separately from each other. No validation or checking is done during the creation of these records. The three record types can be built in any order.

Common batch utility JCL and ddnames

Most of the batch utilities use the following common JCL:

```
//STEP1 EXEC PGM=BZZSAPxx
//STEPLIB DD DSN=bzz.sbzzload,DISP=SHR ← Breeze product library
//CIGLOG DD SYSOUT=*
//CIGRPT DD SYSOUT=*
//CIGOUT DD SYSOUT=*
//*CIGDATA DD DSN=flhq1.flhq2.cigdata,DISP=(NEW,CATLG,DELETE),
//* UNIT=tdisk,SPACE=(CYL,(1,1),RLSE),
//* DCB=(RECFM=VB,LRECL=600,BLKSIZE=6160)
//CIGIN DD *
Insert batch utility commands here
(see the Syntax description for each utility)
```

Figure 6. Batch utility JCL

The last two characters of the BZZSAPxx program name matches the last two characters of the BZZSMJxx JCL member name. There is one exception: the batch reporting utility (JCL member name BZZSMJ06) uses a different program, BZZS0000, with no parameter.

The batch utility JCL uses these ddnames:

Table 1. Batch utility ddnames

DDname	Description
STEPLIB	Required only if the CIGINI and BZZFEXEC modules are not in the LINKLIST. For more information, see the <i>Breeze Installation Guide</i> .
CIGLOG	This ddname is used for every report and function. The execution summary, parsing messages, informational messages and return codes are displayed here. Attributes are RECFM=FB, LRECL=133. In most cases this output will be directed to SYSOUT=*
CIGRPT	This ddname is used as output for all reports. PRINTLOG, REPORT, and REPORTX verbs create reports to this ddname. Attributes are RECFM=FB, LRECL=133. In most cases this output will be directed to SYSOUT=*
CIGOUT	Optional CIG message file.
CIGDATA	This ddname is required for the listing function of the utility.
CIGIN	This ddname is required for all utilities. It is the standard input file for Breeze syntax. The file can be instream data or from a file with the following attributes: <ul style="list-style-type: none"> • LRECL = 80 • RECFM = FB • BLOCKSIZE = 31200 • DSORG = PS (or PO if a member name is specified in the JCL)

Record layout of data produced in CIGDATA

When the BUILD DATA option is used in utility jobs, the output is sent to the data set specified in the CIGDATA DD name. Member BZZBDATA in the SBZZJCL library contains a description of the output produced by each utility in the form of assembler DSECTs and COBOL Copybook statements.

BZZSMJU1–Create approver records

Creates, updates, deletes or lists individual approver records.

ADD Creates an approver record.

UPDATE

Updates an approver record.

DELETE

Deletes an approver record.

LIST Lists an approver record.

Syntax

```
ADD APPROVER USER
  ID = userid
  NAME = name
  PHONE = phone
  EMAIL1 = email1address
  EMAIL2 = email2address
  EMAIL3 = email3address
  TSO SEND = Y|N
```

```
UPDATE APPROVER USER
  ID = userid
  NAME = name
  PHONE = phone
  EMAIL1 = email1address
  EMAIL2 = email2address
  EMAIL3 = email3address
  TSO SEND = Y|N
```

```
LIST APPROVER USER
  ID = userid
  BUILD DATA
  BUILD REPORT
```

Parameters

ID	1–8 character approver user ID.
NAME	1–30 character user name. If the name contains spaces, then it must be enclosed in quotes.
PHONE	Up to a 10 digit telephone number.
EMAIL1–3	1–50 character e-mail address. You may enter up to three e-mail addresses for each specified user ID. If the address contains spaces, then it must be enclosed in quotes.
TSO SEND	Y Notify via TSO SEND and e-mail. N Notify via e-mail only. <i>blank</i> Defaults to Y.
REQUIRED	Not used. See the equivalent parameter in “BZZSMJG1–Update approver group utility” on page 15.
APPROVE ONLY ONCE	Not used. See the equivalent parameter in “BZZSMJG1–Update approver group utility” on page 15.
BUILD DATA	Sends listing to CIGDATA. (If you use LIST, then specify BUILD DATA or BUILD REPORT, or both.)
BUILD REPORT	Sends report to CIGRPT.

BZZSMJG1–Update approver group utility

Creates, updates, deletes or lists approver group records.

ADD Creates an approver group record.

ADD...INCLUDE USER ID

Adds an approver to an approver group.

UPDATE

Updates an approver group record.

UPDATE...FOR USER ID

Updates approver details within an approver group.

DELETE

Deletes an approver group record.

UPDATE...EXCLUDE USER ID

Removes an approver from an approver group.

LIST Lists details for the entire approver group.

LIST...WHERE USER ID

Lists details for an approver within an approver group.

Syntax

```
ADD APPROVER GROUP = approver_group
    QUORUM = quorum
```

```
.
ADD APPROVER GROUP = approver_group
    INCLUDE USER ID = userid
    REQUIRED = Y|N
    APPROVE ONLY ONCE = Y|N
    NOTIFY ONLY {VIA TSOSEND} = Y|N
```

```
.
UPDATE APPROVER GROUP = approver_group
    QUORUM = quorum
```

```
.
UPDATE APPROVER GROUP = approver_group
    FOR USER ID = userid
    REQUIRED = Y|N
    APPROVE ONLY ONCE = Y|N
    NOTIFY ONLY {VIA TSOSEND} = Y|N
```

```
.
UPDATE APPROVER GROUP = approver_group
    EXCLUDE USERID = userid {OPTIONAL}
    FORCE {OPTIONAL}
```

```
.
DELETE APPROVER GROUP = approver_group
    FORCE {OPTIONAL}
```

```
.
DELETE APPROVER GROUP = approver_group
    WHERE USER ID = userid
```

```
.
LIST APPROVER GROUP
    BUILD DATA
    BUILD REPORT
```

```
.
LIST APPROVER GROUP
    WHERE USER ID = userid
    BUILD DATA
    BUILD REPORT
```

```
.
```

Parameters

APPROVER GROUP	1–16 character approver group name	
QUORUM	0–n. Default is 0. The minimum number of votes required in the approver group before the group vote can be decided as “approve” or “veto”. An approver group with required approvers cannot have a quorum of zero. The quorum must be equal to or greater than the number of required approvers in the group. Even if there is a quorum of votes, the group vote cannot be decided until all required approvers have voted.	
ID	1–8 character user ID of the approver to be added to the group, deleted from the group, or whose approver group details you want to update or list.	
REQUIRED	Y	Required approver (final voting result of approver group cannot be decided until this approver has voted). Can be overridden by NOTIFY ONLY parameter.
	N	Not a required approver.
	<i>blank</i>	Defaults to Y.
APPROVE ONLY ONCE	Y	If the user has previously voted on the package when it was promoted from a lower group in the project hierarchy, then their vote will be reapplied to later requests for promotion. This allows the user to vote only once, and not be required for further intervention as the package is promoted up the project hierarchy.
	N	User may need to vote on the package more than once.
	<i>blank</i>	Defaults to Y.
NOTIFY ONLY	Y	Do not allow this user to vote, but still notify the user of promote requests. This overrides the REQUIRED parameter: if you specify Y here, then the user is no longer a required approver.
	N	User may need to approve package more than once.
	<i>blank</i>	Defaults to N.
EXCLUDE USER	Use to remove a user from the approver group	
FORCE	If “option force,” is specified then the following record types will be deleted: Type 24 Approver Group Type 25 User-Approver, Group-Package Type 27 Package-Approver Group	
BUILD DATA	Sends listing to CIGDATA. (If you use LIST, then specify BUILD DATA or BUILD REPORT, or both.)	
BUILD REPORT	Sends report to CIGRPT.	

Note: The “force” option should be used cautiously as Breeze will not update existing records to reflect a change in approver groups. Take a package which has two approver groups, one of which has approved the package and the other which has left it pending. If the approver group that hasn’t

BZZSMJG1–Update approver group utility

approved is deleted using "force", it will delete the ballot box records for that group. This will then show a status of approved against the first group in the ballot box but the overall status of the package will still be pending. This is because the delete does not re-tally the votes for the package. To get the status to reflect the real status one of the approvers needs to re-vote or the BZZSMJV1 utility job needs to be run to do a TALLY for the package.

BZZSMJIJ–Inventory assign utility

Creates, deletes or lists inventory junction records.

ASSIGN

Creates an inventory junction record, linking an inventory location to an approver group.

LIST Lists the inventory locations assigned to an approver group.

REMOVE

Deletes an inventory junction record, removing the links between an inventory location and an approver group.

Notes:

1. Breeze interprets the inventory location that you specify in inventory junction records as the *source* location of members (before promotion). During approver group collection processing, Breeze looks at the source location of each valid member and then finds the associated inventory/approver group record
2. You can specify wild cards (*) for project, group, type, language and member names: you can specify "*" on its own to match any name, or you can specify a partial name followed by "*" (for example, "DEV*" matches all names beginning with "DEV": DEV1, DEV2 etc.). However, it is recommended that you specify at least the complete project name, and as many other parts of the inventory location as possible, so that the approver group is responsible only for its appropriate inventory locations.
3. You can use wild cards with REMOVE to delete multiple inventory junction records. For example, if you have used three separate ASSIGN commands to assign DEV*, TEST and RELEASE groups in the SCLMTEST project to an approver group, then you can use a single REMOVE command for that approver group to delete all three inventory junction records, by specifying SCLMTEST as the project name and "*" as the group name.
4. To ensure that approvals are required for certain types and languages in a project, you can specify the inventory by:
 - Entering an asterisk (*) in the type and language to select all types and languages.
 - Individually specifying the types and languages for which you want package approval.
 - Specifying only the package ARCHDEF type and language; any types included are added to the contents.

Syntax

```
ASSIGN TO APPROVER GROUP = approver_group
  MEMBER = member
  OF PROJECT = project
  ALTERNATE PROJECT = alternate_project
  GROUP = group
  TYPE = type
  LANGUAGE = language
.
REMOVE FROM APPROVER GROUP = approver_group
  MEMBER = member
  OF PROJECT = project
  ALTERNATE PROJECT = alternate_projec
  GROUP = group
  TYPE = type
  LANGUAGE = language
.
```

```
LIST APPROVER GROUP = approver_group
BUILD DATA
BUILD REPORT
```

Parameters

APPROVER GROUP	1–16 character approver group name.
MEMBER	1–8 character SCLM member name.
OF PROJECT	1–8 character SCLM project name.
ALTERNATE PROJECT	1–8 character SCLM project name.
GROUP	1–8 character SCLM group name.
TYPE	1–8 character SCLM type member name.
LANGUAGE	1–8 character SCLM language name.
BUILD DATA	Sends listing to CIGDATA. (If you use LIST, then specify BUILD DATA or BUILD REPORT, or both.)
BUILD REPORT	Sends report to CIGRPT.

BZZSMJP1–Notify utility

Assigns approver groups to “watch” inventory locations; Breeze notifies the users in those groups of promote request, without allowing them to vote.

ADD Assign an approver group to watch an inventory location.

UPDATE

Updates the details of an inventory location watched by an approver group.

DELETE

Removes an inventory location from being watched by an approver group.

LIST Lists the approver groups that are watching a member.

Syntax

```
ADD PROGRAM WATCH FOR
  MEMBER = member
  OF PROJECT = project
  ALTERNATE PROJECT = alternate_project
  GROUP = group
  TYPE = type
  LANGUAGE = language
  NOTIFY APPROVER GROUP = approver_group
.
```

```
UPDATE PROGRAM WATCH FOR
  MEMBER = member
  OF PROJECT = project
  ALTERNATE PROJECT = alternate_project
  GROUP = group
  TYPE = type
  LANGUAGE = language
  NOTIFY APPROVER GROUP = approver_group
.
```

```
DELETE PROGRAM WATCH FOR
  MEMBER = member
  OF PROJECT = project
  ALTERNATE PROJECT = alternate_project
  GROUP = group
  TYPE = type
  LANGUAGE = language
  NOTIFY APPROVER GROUP = approver_group
.
```

```
LIST PROGRAM WATCH FOR
  MEMBER = member
  BUILD DATA
  BUILD REPORT
.
```


Parameters

MEMBER	1–8 character SCLM member name.
OF PROJECT	1–8 character SCLM project name.
ALTERNATE PROJECT	1–8 character SCLM project name.
GROUP	1–8 character SCLM group name.
TYPE	1–8 character SCLM type name.
LANGUAGE	1–8 character SCLM language name.
NOTIFY APPROVER GROUP	1–16 character approver group name.
BUILD DATA	Sends listing to CIGDATA. (If you use LIST, then specify BUILD DATA or BUILD REPORT, or both.)
BUILD REPORT	Sends report to CIGRPT.

BZZSMJA1–Junction utility

Builds a cross-reference list of users, packages and approver groups. You can choose to have Breeze display the data on the screen or to build a report.

Syntax

```
LIST JUNCTION RECORDS WHERE
  USERID = userid
  PACKAGE = package
  APPROVER GROUP = approver group
BUILD DATA
BUILD REPORT
.
```

Parameters

USERID	1–8 character user ID.
PACKAGE	1–16 character package name.
APPROVER GROUP	1–16 character approver group name.
BUILD DATA	Sends listing to CIGDATA. (Specify BUILD DATA or BUILD REPORT, or both.)
BUILD REPORT	Sends report to CIGRPT.

BZZSMJV1–Voting utility

Casts and tallies approver votes. You can use this utility to vote instead of using the Breeze Web interface.

CAST Casts a vote.

TALLY

Counts the current votes to determine the package status.

Syntax

```

CAST BALLOT FOR
  PACKAGE ID = package
  PROJECT = project
  ALTPROJ = alternate_project
  GROUP = group
  TYPE = type
  VOTE = FOR|AGAINST|ABSTAIN
  NOTE1 = 'note'
  NOTE2 = 'note'
  NOTE3 = 'note'
  NOTE4 = 'note'
  NOTE5 = 'note'
  NOTE6 = 'note'
  NOTE7 = 'note'
  NOTE8 = 'note'
TALLY BALLOTS FOR
  PACKAGE ID = package
  PROJECT = project
  ALTPROJ = alternate_project
  GROUP = group
  TYPE = type

```

Parameters

PACKAGE ID	(Required.) 1–16 character name of the package for which you want to cast a vote or for which you want to get a total vote count.
VOTE	(Required.) Your vote: FOR, AGAINST or ABSTAIN.
NOTE1–8	(Optional.) To add notes to a package, enter up to 8 lines of text. Each line can be a maximum of 60 characters, and must be enclosed in quotes.
PROJECT	(Required.) 1–8 character SCLM project name.
ALTPROJ	(Required.) 1–8 character SCLM project name. If you are not using an alternate project, specify your normal project name here (as above).
GROUP	(Required.) 1–8 character SCLM group name.
TYPE	(Required.) 1–8 character SCLM type name.

BZZSMJD1–Clear, update, purge, extract, and reset utility

There are several package maintenance functions available to maintain package information stored in the Breeze Package database. Such functions are invoked by running job BZZSMJD1 and executing program BZZSAPD1.

CLEAR

The Delete action has been deprecated with the Clear action now replacing the term Delete.

Clear (formerly Delete) removes all approval data (type 25, 26, and 27 records) as well as collision related data (type 29 records) related to the package contained in the Breeze database. The package header (type 12) and history audit log (type 15) are retained. In addition, the package status is cleared.

You would run the Clear (formerly Delete) action if you wanted to restart the Breeze approval process. For example, you may have a package in QA already approved and ready to be promoted to PROD. But prior to the promotion, an error was discovered with one of the package components and it is decided to correct the package component and merge the corrected component into the package currently located in QA.

You would:

1. Edit the package component in error.
2. Build the package in DEV.
3. Run the CLEAR (formerly Delete) action.
4. Promote the package to QA.
5. Re-initiate the approval process by attempting to promote the package to REL. Breeze will notify all users again that the package must be approved prior to allowing the promotion to occur.
6. Get all approvers to approve the package.
7. Promote the package into PROD.

Running the CLEAR action should be an exception since the action requires re-approval of an already approved package.

UPDATE

Allows the promotion date window, description and package type to be altered on the Breeze database. This option can be used if these parameters were entered incorrectly during the first promote.

PURGE

Purge removes all information associated with a package from the Breeze database. Breeze Package information includes Package Header information (type 12 records), a historical log related to the package (type 15 records), package approval data (type 25, 26, and 27 records), and collision related data (type 29 records).

You would run the Purge action if you deleted a package from SCLM and wanted all related package information stored in the Breeze database to also be removed. However, if you wish to retain the audit log associated with the package then you should not run the Purge action.

EXTRACT

Extract allows all the database records relating to a Breeze package to be written to a sequential file. This command is used primarily for archive and restore processing as described in Chapter 4, "Archival processing," on page 37.

BZZSMJD1—Clear, update, purge, extract, and reset utility

Output from the EXTRACT command is raw, unformatted Breeze database records suitable for copying to an alternate Breeze database or for restore processing. The output is written to the file CIGXTRCT which must have DCB attributes of LRECL=720,RECFM=FB.

RESET

Restores a package status of incomplete to its previous value of either pending or approved, keeping existing content and approver data, and any existing votes. This reset utility applies only to packages whose status is incomplete, and whose previous status was either pending or approved. For other packages, RESET has no effect. This action appears in the package activity log. If a package is rebuilt when it is in pending or approved status, then Breeze changes its status to blank, so that it can no longer be voted on (if it was in pending status) or promoted (if it was approved). Use the SCLM promote function to request approval for the package, to begin voting over again.

Syntax

```
CLEAR  PACKAGE = package
        PROJECT = project
        ALTPROJ = alternate_project
        GROUP   = group
        TYPE    = type
        BUILD   DATA
        BUILD   REPORT

UPDATE PACKAGE = package
        PROJECT = project
        ALTPROJ = alternate_project
        GROUP   = group
        TYPE    = type
        FROM    DATE yy/mm/dd
                TIME hh:mm
        THROUGH DATE yy/mm/dd
                TIME hh:mm
        DESCRIPTION description
        PTYPE    = package type

PURGE  PACKAGE = package
        PROJECT = project
        ALTPROJ = alternate_project
        GROUP   = group
        TYPE    = type
        BUILD   DATA
        BUILD   REPORT

EXTRACT PACKAGE = package
        PROJECT = project
        ALTPROJ = alternate project
        GROUP   = group
        TYPE    = type

RESET  PACKAGE = package
        PROJECT = project
        ALTPROJ = alternate_project
        GROUP   = group
        TYPE    = type
```

Parameters

PACKAGE	1–16 character package name.
---------	------------------------------

BZZSMJD1–Clear, update, purge, extract, and reset utility

PROJECT	(Optional.) 1–8 character SCLM project name.
ALTPROJ	(Optional.) 1–8 character SCLM alternate project name.
GROUP	(Optional.) 1–8 character SCLM group name.
TYPE	(Optional.) 1–8 character SCLM type name.
BUILD DATA	Sends listing to CIGDATA. (Specify BUILD DATA or BUILD REPORT, or both.)
BUILD REPORT	Sends report to CIGRPT.
FROM DATE	Start date from which the package can be promoted in YY/MM/DD format.
FROM TIME	Start time from which the package can be promoted in HH:MM format.
THROUGH DATE	End date up to which the package can be promoted in YY/MM/DD format.
THROUGH TIME	End time up to which the package can be promoted in HH:MM format.
DESCRIPTION	Package description.
PTYPE	Type of package. Either ST for Standard or EM for Emergency.

BZZSMJ06–Batch reporting utility

Creates Breeze package reports for the particular package. LIST . REPORT sends output to CIGRPT.

LIST Sends output to CIGDATA.

REPORT
Sends output to CIGRPT.

Syntax

```
REPORT PACKAGE = value
        PROJECT = value
        ALTPROJ = value
        GROUP   = value
        TYPE    = value
        TOGROUP = value
WHERE STATUS = PROMOTED|PENDING|INCOMPLETE|IN-ERROR|VETOED|APPROVED

WHERE FROM DATE = yy/mm/dd
        THROUGH DATE = yy/mm/dd

WHERE FROM EXEC DATE = yy/mm/dd
        THROUGH EXEC DATE = yy/mm/dd

WHERE FROM BUILD DATE = yy/mm/dd
        THROUGH BUILD DATE = yy/mm/dd

WHERE FROM PROMOTE DATE = yy/mm/dd
        THROUGH PROMOTE DATE = yy/mm/dd

WHERE PACKAGE TYPE = STANDARD|EMERGENCY

WHERE BUILD USER = value

WHERE PROMOTE USER = value

WHERE USER = value

WHERE APPROVER = value

WHERE MEMBER = value
WHERE PROJECT = value
WHERE ALTPROJ = value
WHERE GROUP = value
WHERE TYPE = value

OPTIONS CONTENTS|COLLISIONS|VOTES|NOTES|STATUS|ALL|LOG
```

Parameters

PACKAGE	1–16 character package name.
ALTPROJ	1–8 character SCLM alternate project name.
STATUS	Package status: pending, vetoed, approved etc.

BZZSMJ06–Batch reporting utility

FROM	The start date (FROM) and end date (THROUGH) for:
THROUGH	DATE The date the package was last updated. BUILD DATE The date the package was built. PROMOTE DATE The date the package was promoted. EXEC DATE The promotion window date. Shows packages that are eligible for promotion between the from and through data specified in the utility syntax.
	The THROUGH parameter is optional. If you do not specify THROUGH, then the end date defaults to the date that you create the report.
PACKAGE TYPE	Package type, either Standard or Emergency.
BUILD USER	1–8 character ID of the user who built the package.
PROMOTE USER	1–8 character ID of the user who promoted the package.
USER	1–8 character ID of the user who last updated the package.
APPROVER	1–8 character ID of an approver for the package.
MEMBER	1–8 character SCLM member name.
PROJECT	1–8 character SCLM project name.
GROUP	1–8 character SCLM group name.
TYPE	1–8 character SCLM type name.
OPTIONS	Any combination of these values: CONTENTS STATUS COLLISIONS NOTES VOTES LOG or ALL (for all of the above), indicating the information you want in the report.

Sample report output

DATE 01/10/25 TIME 12:08:15 B R E E Z E F O R S C L M, RELEASE 1.0 PAGE 1
P A C K A G E D E T A I L R E P O R T

FOR PACKAGE: APC00021 COMMENT:
 STATUS INFORMATION : PROMOTED
 EXECUTION WINDOW : 01/08/29 14:01 THROUGH 80/12/31 23:59
 LAST UPDATE INFORMATION : DOHERTL 01/08/29 14:39
 LAST CAST INFORMATION : DOHERTL 01/08/29 14:05
 LAST PROMOTE INFORMATION : DOHERTL 01/08/29 14:39

ACTUAL CONTENT OF PACKAGE:

X	MEMBER	PROJECT	ALT-PROJECT	GROUP	TYPE	LANGUAGE
	FLM21TXT	SCLMTEST	SCLMTEST	TEST	SOURCE	TEXT
		SCLMTEST	SCLMTEST	RELEASE	SOURCE	TEXT

APPROVERS CURRENTLY ASSIGNED:

APPROVER	GROUP	QUORUM	STATUS
APCGROUP		01	APPROVED

APPROVER	GROUP	USER	DATE	TIME	DECISION
APCGROUP		DOHERTL	01/08/29	14:31	FOR
APCGROUP		OSPEED	01/08/29	14:05	

LOG RECORDS RECORDED:

ACTIVITY	USER	DATE	TIME	RC
PVERIFY	DOHERTL	01/08/29	14:01	04
TALLYING	BZZSMJV1	01/08/29	14:02	00
TALLYING	BZZSMJV1	01/08/29	14:02	00
RESULTS OF PACKAGE ID = APC00021				APPROVED
PROMOTE	DOHERTL	01/08/29	14:03	00
PVERIFY	DOHERTL	01/08/29	14:05	04
VOTING	BZZSMJV1	01/08/29	14:31	00
TALLYING	BZZSMJV1	01/08/29	14:31	00
RESULTS OF PACKAGE ID = APC00021				APPROVED
PROMOTE	BZZSMJS1	01/08/29	14:39	00

CURRENT NOTES:

Figure 7. Sample report output

BZZSMJS1–Promotion sweep utility

Finds all packages that are ready for promotion (package status of approved) and invokes the SCLM promote service. You can use a job scheduler to run this utility at regular intervals, or you can use it in an ad hoc manner.

BZZSMJS1 JCL

```

/* INSERT JOB CARD
/* -----*
/* NAME:      BZZSMJS1
/* PURPOSE:   SUBMIT ALL BREEZE FOR SCLM PACKAGES THAT ARE APPROVED
/*           AND HAVE A VALID EXECUTION WINDOW.
/* NOTE:      THE OK$CLEAR DD DUMMY WILL CAUSE THE CLEAR PACKAGE
/*           OPTION TO BE INCLUDED IN THE PROMOTE REQUEST. TO DISABLE*
/*           THE CLEAR TARGET PACKAGE OPTION, COMMENT OUT THE
/*           OK$CLEAR DDNAME.
/* -----*
/*
/* TO USE THIS JCL, YOU MUST:
/* 1) INSERT VALID JOB CARD.
/* 2) REVIEW THE NAMING CONVENTIONS OF THE ISPF LIBRARIES.
/*    THIS SKELETON REFLECTS DEFAULT NAMING STANDARDS.
/*    PLEASE MODIFY TO MEET YOUR INSTALLATION STANDARDS.
/* 3) MAKE SURE THAT THE STEPLIB POINTS TO YOUR INSTALLATION
/*    ISPF LOAD LIBRARIES, UNLESS THEY ARE LINKLISTED.
/*    REVIEW THIS WITH YOUR ISPF SYSTEM PROGRAMMER.
/* 4) MAKE SURE THAT THE STEPLIB POINTS TO THE BREEZE PRODUCT*
/*    LIBRARIES THAT CONTAIN THE CIGINI MODULE.
/* -----*
//STEP1 EXEC PGM=BZZSAPS1
//STEPLIB DD DSN=BZZ.SBZZLOAD,DISP=SHR
//CIGLOG DD SYSOUT=*
//OK$CLEAR DD DUMMY
//PROMCARD DD DSN=&&PROMCARD,DISP=(,PASS),
//          DCB=(LRECL=80,RECFM=FB,BLKSIZE=31200),
//          SPACE=(TRK,(45,45)),UNIT=SYSALLDA
//CIGTPLT DD *
//          FLMCMD PROMOTE,%PROJECT%,%ALTERNATE%,%GROUP%,%TYPE%,+
//          %MEMBER%,N,C,PROMMSGS,PROMREPT,PROMEXIT,COPYERR,+
//          Y,Y,,BLDMSGs,BLDREPT,BLDLIST,BLDEXITR
/*
//STEP1IF IF (STEP1.RC = 0) THEN
/* -----*
/* PASS PROMOTE REQUESTS TO SCLM
/* -----*
//PROMOTE PROC
//GENERO EXEC PGM=IEBGENER
//SYSPRINT DD DUMMY
//SYSIN DD DUMMY
//SYSUT1 DD DUMMY
//SYSUT2 DD DSN=&&CLIST0(TEMPNAME),UNIT=SYSALLDA,
//          SPACE=(TRK,(1,1,2),RLSE),
//          DISP=(NEW,PASS),DCB=(LRECL=80,
//          BLKSIZE=1600,DSORG=PO,RECFM=FB)
/* -----*
/* PROCESS THE SCLM FLMCMDS FROM STEP1
/* -----*
//PROMO EXEC PGM=IKJEFT01,REGION=4096K,TIME=1439,DYNAMNBR=200
/* -----*
/* STEPLIB LIBRARIES
/* -----*
//STEPLIB DD DSN=BZZ.SBZZLOAD,DISP=SHR
//          DD DSN=ISP.SISPLPA,DISP=SHR
//          DD DSN=ISP.SISPLOAD,DISP=SHR

```

```

/** DD DSN=ISP.SISPSASC,DISP=SHR
/**-----*
/** ISPF LIBRARIES *
/**-----*
//ISPMLIB DD DSN=BZZ.SBZZMENU,DISP=SHR
// DD DSN=ISP.SISPMENU,DISP=SHR
/**
//ISPSLIB DD DSN=BZZ.SBZZSENU,DISP=SHR
// DD DSN=ISP.SISPSENU,DISP=SHR
// DD DSN=ISP.SISPSLIB,DISP=SHR
/**
//ISPPLIB DD DSN=BZZ.SBZZPENU,DISP=SHR
// DD DSN=ISP.SISPPENU,DISP=SHR
/**
//ISPTLIB DD UNIT=VIO,DISP=(NEW,PASS),SPACE=(CYL,(1,1,5)),
// DCB=(LRECL=80,BLKSIZE=19040,DSORG=PO,RECFM=FB),
// DSN= TEMPORARY TABLE LIBRARY
// DD DSN=ISP.SISPTENU,DISP=SHR
/**
//ISPTABL DD UNIT=VIO,DISP=(NEW,PASS),SPACE=(CYL,(1,1,5)),
// DCB=(LRECL=80,BLKSIZE=19040,DSORG=PO,RECFM=FB),
// DSN= TEMPORARY TABLE LIBRARY
/**
//ISPPROF DD UNIT=VIO,DISP=(NEW,PASS),SPACE=(CYL,(1,1,5)),
// DCB=(LRECL=80,BLKSIZE=19040,DSORG=PO,RECFM=FB),
// DSN= TEMPORARY TABLE LIBRARY
/**
//ISPLOG DD SYSOUT=*,
// DCB=(LRECL=120,BLKSIZE=2400,DSORG=PS,RECFM=FB)
/**
//ISPCTL1 DD DISP=NEW,UNIT=SYSALLDA,SPACE=(CYL,(1,1)),
// DCB=(LRECL=80,BLKSIZE=800,RECFM=FB) TEMPORARY FILE
// TAILORING DATASET
//SYSTEM DD SYSOUT=*
/**
/**-----*
/** TEMPORARY CLIST CONTAINING COMMAND TO BE EXECUTED *
/**-----*
//SYSPROC DD DSN=&&CLIST0,DISP=(OLD,DELETE)
// DD DSN=BZZ.SBZZCLIB,DISP=SHR
// DD DSN=ISP.SISPCLIB,DISP=SHR
// DD DSN=SYS1.CLIST,DISP=SHR
/**-----*
/** PASCAL ERROR MESSAGE FILE *
/**-----*
//COPYERR DD SYSOUT=(*),RECFM=FBA,LRECL=133,BLKSIZE=1330
/**-----*
/** PROMOTE USER EXIT OUTPUT FILE *
/**-----*
//PROMEXIT DD DSN=&&PROMEXIT,
// DISP=(NEW,DELETE,DELETE),SPACE=(TRK,(5,10),RLSE),
// DCB=(LRECL=160,BLKSIZE=3200,RECFM=FB),UNIT=SYSALLDA
/**-----*
/** OUTPUT CARD *
/**-----*
//PROMREPT DD SYSOUT=*
//PROMMSG DD SYSOUT=*
//SYSPRINT DD SYSOUT=(*)
//BLDMSG DD SYSOUT=*,DCB=(LRECL=80,RECFM=F,BLKSIZE=80)
//BLDLIST DD SYSOUT=*,DCB=(LRECL=137,RECFM=VBA,BLKSIZE=3120)
//BLDREPT DD SYSOUT=*,DCB=(LRECL=80,RECFM=FBA,BLKSIZE=3120)
//BLDEXITR DD DSN=&&BLDEXITR,
// DISP=(NEW,DELETE,DELETE),SPACE=(TRK,(5,10),RLSE),
// DCB=(LRECL=160,BLKSIZE=3200,RECFM=FB),UNIT=SYSALLDA
/**-----*
/** NLS TABLE AND TRANSLATION TABLE NAME FILE *
/**-----*

```

BZZSMJS1–Promotion sweep utility

```

//ZFLMDD DD DUMMY
//*-----*
//*
//*-----*
//FLMMSG DD SYSOUT=(*)
//SYSTSPRT DD SYSOUT=(*)
//SYSTSIN DD DUMMY
//PROMOTE PEND
//*-----*
/* INVOKE THE PROMOTE PROC TO PROCESS QUALIFIED PACKAGES *
/*-----*
//BREEZE EXEC PROC=PROMOTE
//GENER0.SYSUT1 DD DSN=&&PROMCARD,DISP=(OLD,DELETE)
/*
//PROM0.ZFLMDD DD *
        ZFLMNLST=FLMNLNU    ZFLMTRMT=ISR3278    ZDATEF=YY/MM/DD
/*
//PROM0.SYSTSIN DD *
        ISPSTART CMD(%TEMPNAME)
/*
//ENDIF1 ENDIF

```

DDnames

These are the ddnames used by the promotion sweep utility JCL:

DDname	Description
STEPLIB	Required only if the CIGINI and BZZFEXEC modules are not in the LINKLIST. For more information, see the <i>Breeze Installation Guide</i> .
CIGLOG	This ddname is used for every report and function. The execution summary, parsing messages, informational messages and return codes are displayed here. Attributes are RECFM=FB, LRECL=133. In most cases this output will be directed to SYSOUT=*
PROMCARD	This ddname is used to print FLMCMD requests for each package that is eligible for promotion. This ddname is passed to the GENER0.SYSUT1 DD override statement.
OK\$CLEAR	Optional. If included in the JCL, causes the automatic CLEAR package option to be included in the promote request. To disable the automatic CLEAR package option, comment out the OK\$CLEAR DD statement. The automatic CLEAR package option is discussed in the <i>Breeze User's Guide</i> in the section "Entering package attributes" (Chapter 2. "Promoting a package").
CIGTMPLT	If any of the projects for which you are running the sweep job utilize the FLMLRBLD macro to rebuild at the promote group, you must add the CIGTMPLT DD to the sweep job JCL. This template includes the default build parameters required. If you require the Build report and messages, then you must also add the DDs pertaining to these to the sweep job JCL. If FLMLRBLD is not being utilized, then the JCL can still be run with the CIGTMPLT DD, as the additional parameters will have no effect.

Chapter 3. Advanced topics

This chapter describes the following members of SBZZJAVA (the Java control data set defined in the CIGINI file) that you can use to tailor your implementation of Breeze:

\$\$EMER	Lists user IDs that can build and promote emergency packages.
\$\$EXCL	Excludes types from Breeze package processing.
\$\$COLL	Determines whether Breeze monitors collisions.
\$\$HTML	The contents of the e-mail sent to approvers, notifying them that a package requires their approval.

With the exception of \$\$HTML, when these members are present in SBZZJAVA, a series of messages is sent to the CIGLOG data set, informing you that Breeze has been tailored

This chapter also covers issues specific to batch processing.

\$\$EMER

Breeze supports two package types: standard and emergency. These types do not affect approval, and are for documentation purposes only, except for one key difference: if you create a \$\$EMER member in the SBZZJAVA data set, then only the user IDs listed in that member can build or promote emergency packages. If there is no \$\$EMER member in the SBZZJAVA data set, then there is no difference in behavior between standard and emergency packages: Breeze will allow all users to build and promote emergency packages.

A sample member named BZZ\$EMER is supplied in the SBZZJCL data set.

Format of \$\$EMER

The format of the \$\$EMER member is a plain-text list of user IDs. For example:

```
SYS01  
SYS02
```

The CIGLOG messages associated with the \$\$EMER member are as follows:

```
16:16:18 PKG4038I EMERGENCY USER LIST PROCESSING NOW IN EFFECT.  
16:16:18 PKG4039I ONLY THE FOLLOWING USERS WILL BE ALLOWED TO PROMOTE EMERGENCY PACKAGES:  
16:16:18 PKG4040I USERID = SYS01  
16:16:18 PKG4040I USERID = SYS02
```

\$\$EXCL

There are many internal SCLM types associated with a package. To the end user, these may not have any meaning. For instance, when you are moving a COBOL program several other components get moved as well such as load modules, listings and object code. From the developers perspective, the object being promoted through the life cycle is a change to COBOL source.

If you create a \$\$EXCL member in SBZZJAVA, then the Breeze promote verify user exit excludes from content and approver collection any of the members in the package that match the SCLM types listed in the \$\$EXCL member. The sample

\$\$EXCL

member BZZ\$EXCL, supplied in the SBZZJCL data set, contains a list of types recommended to be excluded from content and approver collection. Depending on your SCLM type names, you might need to further modify this member.

Format of \$\$EXCL

The format of the \$\$EXCL member is a plain-text list of SCLM types. For example:

```
ARCHLEC
ARCHCC
ARCHHL
PACKAGE
LISTING
OBJ
LOADMOD
```

The CIGLOG messages associated with the \$\$EXCL member are as follows:

```
16:16:18 PKG4035I EXCLUDE LIST PROCESSING NOW IN EFFECT.
16:16:18 PKG4036I THE FOLLOWING SCLM TYPES WILL NOT BE INCLUDED IN PACKAGE
PROCESSING.
16:16:18 PKG4037I TYPE= ARCHLEC
16:16:18 PKG4037I TYPE= ARCHCC
16:16:18 PKG4037I TYPE= ARCHHL
16:16:18 PKG4037I TYPE= PACKAGE
16:16:18 PKG4037I TYPE= LISTING
16:16:18 PKG4037I TYPE= OBJ
16:16:18 PKG4037I TYPE= LOADMOD
```

\$\$COLL

Users have the option of collecting collision information. A collision is when a source member is included in more than one package. You can view collision information using either the Breeze Web interface or the batch report utility.

Breeze for SCLM provides a configuration member called \$\$COLL for collision options.

Format of \$\$COLL

The format of the \$\$COLL member is as follows:

```
PACKAGE COLLISIONS=Y
```

The CIGLOG messages associated with the \$\$COLL member are as follows:

```
16:16:19 PKG4041I THE FOLLOWING COLLISION
RULES ARE IN EFFECT:
16:16:19 FST0001I PACKAGE COLLISIONS=Y
```

\$\$HTML

The \$\$HTML member contains the text of the e-mail that Breeze sends to approvers when a package requires their approval.

The \$\$HTML member should contain the IP address, port number and HTML file name of the Breeze Web interface, so that approvers can click on the link in the e-mail to use the Breeze Web interface. Otherwise, the contents are up to you.

There are a number of symbolic parameters that you can include in the text of the \$\$HTML member. These parameters, preceded by %, are replaced by their actual values prior to the e-mail being sent. The list of parameters is as follows:

```
%%PACKAGEID Breeze package name
```

	%%PKGDESC	Breeze package description
	%%FROMDATE	Breeze start of promotion window
	%%FROMTIME	Breeze start of promotion window
	%%THRUDATE	Breeze end of promotion window
	%%THRUTIME	Breeze end of promotion window
	%%PKGTYPE	Breeze package type: STANDARD or EMERGENCY
	%%PROJECT	SCLM project
	%%LIBDEF	SCLM alternate project
	%%FROMGRP	SCLM group (current location)
	%%TOGRP	SCLM group (promote-to location)
	%%TYPE	SCLM type
	%%MEMBER	SCLM member (same as %%PACKAGEID)
	%%SCOPE	SCLM Promote scope
	%%MODE	SCLM Promote mode
	%%USERID	User initiating this e-mail

| The subject line of the e-mail can also be formed in the %%HTML member. To
 | create a customized subject line as the first line in the \$\$HTML, specify the word
 | SUBJECT: (uppercase letters), followed by a blank, followed by the subject text.

The following example shows a \$\$HTML member with a subject line and new variables:

SUBJECT: Approve %%PACKAGEID with fromdate of %%FROMDATE

| There is a restriction of 61 bytes of data in the subject line after symbolic
 | substitution has been performed.

Format of \$\$HTML

For example, this \$\$HTML member:

This is from the IBM Breeze for SCLM QA system.
 There are Breeze packages that need to be approved (or vetoed) by you.
 Please view package "%%PACKAGEID" for more information.
 To view the package contents in batch, please modify and execute
 the BZZSMJ06 JCL member.
 To view the package contents via the Internet, click on the link below:
<http://198.95.64.15:8001/brsclm.html>

becomes this e-mail:

This is from the IBM Breeze for SCLM system.
 There are Breeze packages that need to be approved (or vetoed) by you.
 Please view package "EMERNEW " for more information.
 To view the package contents in batch, please modify and execute
 the BZZSMJ06 JCL member.
 To view the package contents via the Internet, click on the link below:
<http://198.95.64.15:8001/brsclm.html>

Batch only issues

You can use the SCLM build and promote functions in either batch or foreground. This is a standard feature of SCLM. The Breeze exits have been designed to work in both batch and foreground. The only difference for batch processing is that Breeze does not display the various input and confirmation panels, and instead supplies default values.

For example, when a package is promoted in the foreground, Breeze prompts you to review and change the package attributes. You can change the package

Batch only issues

description, package type and promotion execution windows for an existing or new package ID. However, when you perform promotions in batch, you cannot supply or modify existing package attributes, and new packages will be assigned the following default attributes:

Attribute	Default value
Package description	IBM Breeze for SCLM Package
Execution window start date	Current date (<i>yy/mm/dd</i>) and time (<i>hh:mm</i>)
Execution window end date	80/12/31 23:59

The CIGLOG data set will contain an informational message alerting the user that default attributes have been assigned.

Chapter 4. Archival processing

By using the EXTRACT and PURGE commands along with the IDCAMS utility, you can establish an archive or restore procedure. This procedure is useful for reducing the size of the Breeze database without permanently losing the Breeze package definitions. For example, you might want to Archive packages that are over 100 days old.

The archival process only affects the Breeze database. It does not affect source stored in SCLM.

The archival process consists of several components:

1. A job stream to extract packages from the database based on selection criteria.
2. Purging extracted packages.
3. Providing the ability to restore extracted packages, if required.
4. Establishing a Breeze archival database.
5. Loading extracted records into the Breeze archival database.
6. Viewing and reporting archived packages contained in the Breeze archival database.

Component 1: Extracting packages based on selection criteria

The most common selection criteria involve selecting packages older than a defined number of days. This selection criteria might vary based on project, group, or even package status.

Figure 8 on page 38 shows a sample job that selects Breeze packages that are older than 100 days. STEP3 in the job stream performs the Breeze EXTRACT function.

Extracted output must be written to a file with DCB attributes of
LRECL=720,RECFM=FB.

Component 2: Purging extracted packages

Figure 8 on page 38 also shows a PURGE step, STEP4, whereby records that were extracted in STEP3 are subsequently removed from the Breeze database using the Breeze PURGE function.

Archival processing

```
/* JOBCARD
/* -----*
/* NAME:      BZZARJ03                               *
/* PURPOSE:   EXTRACT BREEZE PACKAGE RECORDS         *
/* -----*
/* TO USE THIS JCL, YOU MUST:                       *
/*     1) INSERT A VALID JOB CARD WITH VALID CLASS AND REGION=0M *
/*     2) CHANGE THE UNIT=TDISK AS PER THE INSTALLATION WORKSHEET*
/* -----*
/*
/*JOBLIB DD DSN=BZZ.SBZZLOAD,DISP=SHR
/*
/* -----
/* STEP1 extracts packages that are older than
/* 100 days. Refer to the BZZSJM06 for an
/* explanation of the REPORT PACKAGE syntax.
/* -----
/*STEP1 EXEC PGM=BZZS0000
/*CIGIN DD *
REPORT PACKAGES *
    PROJECT = SCLMTEST
    ALTPROJ = SCLMTEST
    GROUP   = *
    TYPE    = *
    WHERE OLDER THAN 100 DAYS
    OPTIONS STATUS

/*CIGLOG DD SYSOUT=*
/*CIGRPT DD DSN=&&CIGRPT,DISP=(NEW,PASS),
//      SPACE=(CYL,(1,1),RLSE),UNIT=TDISK,
//      DCB=(RECFM=FB,LRECL=133)
/* -----
/* STEP2 executes the REXX program BZZPEXPU
/* EXTRACT commands will be written to the ddname EXTRACT.
/* PURGE commands will be written to the ddname PURGE.
/* -----
/*STEP2 EXEC PGM=IRXJCL,PARM='BZZPEXPU',COND=(0,NE)
//SYSEXEC DD DSN=BZZ.SBZZCLIB,DISP=SHR
//SYSTSPRT DD SYSOUT=*
//CIGRPT DD DSN=&&CIGRPT,DISP=(OLD,DELETE)
//PURGE DD DSN=&&PURGE,DISP=(NEW,PASS),
//      SPACE=(CYL,(1,1),RLSE),UNIT=TDISK,
//      DCB=(RECFM=FB,LRECL=80)
//EXTRACT DD DSN=&&EXTRACT,DISP=(NEW,PASS),
//      SPACE=(CYL,(1,1),RLSE),UNIT=TDISK,
//      DCB=(RECFM=FB,LRECL=80)
```

Figure 8. BZZARJ03 - Archive JCL Stream (Part 1 of 2)

```

/* -----
/* STEP3 extracts Breeze package records based on
/* selection criteria defined in STEP1.
/* -----
//STEP3 EXEC PGM=BZZSAPD1,COND=(0,NE)
//CIGIN DD DSN=&&EXTRACT,DISP=(OLD,DELETE)
//CIGLOG DD SYSOUT=*
//CIGXTRCT DD DSN=BZZ.ARCHIVE.FLAT720,
// DISP=(NEW,CATLG),UNIT=TDISK,
// SPACE=(CYL,(1,1),RLSE),
// DCB=(RECFM=FB,LRECL=720)
/* -----
/* STEP4 purges Breeze package records. Note the
/* COND= allows STEP5 to execute only if Breeze
/* packages were successfully extracted.
/* -----
//STEP4 EXEC PGM=BZZSAPD1,COND=(0,NE)
//CIGIN DD DSN=&&PURGE,DISP=(OLD,DELETE)
//CIGLOG DD SYSOUT=*

```

Figure 8. BZZARJ03 - Archive JCL Stream (Part 2 of 2)

Component 3: Providing the ability to restore extracted packages

You may need to restore an extracted package back into your Breeze production database. This task can be performed using the JCL shown in Figure 9 on page 40.

To restore selected packages from the archival file, perform the following steps:

1. Establish a Breeze Archival database as described in “Component 4: Establishing a Breeze archival database” on page 40.
2. Load the file BREEZE.ARCHIVE.FLAT720 into the Breeze Archival database.
3. Perform an extract of the package to be restored from the archival database.
4. Restore the extracted package back into your Breeze production environment.

```

/***(JOB CARD)
/**
/** ----- *
/** NAME:      BZZARJ05 *
/** PURPOSE:   THE PURPOSE OF THIS JCL IS RESTORE ARCHIVED PACKAGES *
/** ----- *
/** TO USE THIS JCL, YOU MUST: *
/**      1) INSERT A VALID JOB CARD WITH VALID CLASS *
/** ----- *
/**
/** -----
/** STEP1 sorts the data to be restored.
/** -----
//STEP1 EXEC PGM=SORT
//SYSIN DD *
      SORT FIELDS=(1,720,CH,A),FILSZ=E2000,DYNALLOC
      SUM FIELDS=NONE
//SYSOUT DD SYSOUT=*
//SORTIN DD DSN=BZZ.ARCHIVE.FLAT720,DISP=SHR
//SORTOUT DD DSN=BZZ.ARCHIVE.FLAT720,DISP=SHR
/** -----
/** STEP2 restores the Breeze archived packages.
/** -----
//STEP2 EXEC PGM=IDCAMS,COND=(0,NE)
//SYSIN DD *
      REPRO INFILE(CIGXTRCT) OUTFILE(BZZDB) REPLACE
//SYSPRINT DD SYSOUT=*
//CIGXTRCT DD DSN=BZZ.ARCHIVE.FLAT720,DISP=SHR

```

Figure 9. BZZARJ05 - Restore JCL stream

Component 4: Establishing a Breeze archival database

A Breeze archival database provides the ability to run reports against archived packages, as well as to select restore packages that had previously been archived. There are no limits to the number of Breeze archival databases that you may establish. Access to the database is controlled through the `//CIGINI DD` statement.

To establish a Breeze archive database, perform the following steps:

- Step 1** Allocate and initialize the database as shown in Figure 10 on page 41.
- Step 2** Create an alternate CIGINI file that references the Breeze archive database. Figure 11 on page 42 shows an example of creating a CIGINI file. You will need to modify your main CIGINI file directives to comment out the `DO NOT ALLOW ALTERNATE CIGINI` option. Refer to the Breeze Installation Guide for a detailed explanation of the CIGINI file.
- Step 3** Add the `//CIGINI DD` statement to the Breeze utilities to instruct Breeze to access package records contained in the Breeze archive database, rather than from your production Breeze database. Figure 13 on page 45 shows an example of producing Breeze reports from the Breeze archive database.

```

/***(JOB CARD)
/**
/** ----- *
/** NAME:      BZZARJ01 *
/** PURPOSE:  ALLOCATE THE BREEZE FOR SCLM PACKAGE ARCHIVE DATABASE *
/**           AND INITIALIZE. *
/** ----- *
/** TO USE THIS JCL, YOU MUST: *
/**     1) INSERT A VALID JOB CARD WITH VALID CLASS. *
/**     2) CHANGE THE DVOLSER VALUE AS PER WORKSHEET. IF YOUR *
/**        SITE IS USING SMS FOR VSAM FILE ALLOCATION, THEN *
/**        YOU MAY NOT NEED THIS PARAMETER. *
/** ----- *
/** ALLOCATE THE BREEZE PACKAGE ARCHIVE DATABASE *
/** ----- *
/** ----- *
/** STEP1 allocates a Breeze archival database. The
/** Breeze archival database has the same attributes
/** as the Breeze production database.
/** ----- *
//STEP1 EXEC PGM=IDCAMS
//SYSIN DD *
DELETE BZZ.ARCHIVAL.DATABASE
DEFINE CLUSTER -
  (NAME('BZZ.ARCHIVAL.DATABASE') -
   SPEED UNIQUE FREESPACE(30 30) -
   CYLINDERS(10 10) -
   VOLUMES(DVOLSER) -
   SHR(4 3) -
   KEYS(80 0) -
   RECORDSIZE(80 720)) -
  DATA (CISZ(16000)) -
  INDEX (CISZ(4096))
REPRO INFILE(INDD01) OUTDATASET('BZZ.ARCHIVAL.DATABASE')
//INDD01 DD *
BREEZE ARCHIVE DATABASE INITIALISATION RECORD
//SYSPRINT DD SYSOUT=*
/** ----- *
/** STEP2 expands to archival database to two index
/** levels.
/** ----- *
//STEP2 EXEC PGM=BZZVSM2L,PARM='BZZ.ARCHIVAL.DATABASE'
//STEPLIB DD DSN=BZZ.SBZZLOAD,DISP=SHR

```

Figure 10. BZZARJ01 - Archival database allocation JCL

Archival processing

```
/* (JOB CARD)
/* -----*
/* NAME: BZZARJ02 *
/* PURPOSE: PARSE, COMPILE AND LINK THE ARCHIVE CIGINI MODULE. *
/* -----*
/* TO USE THIS JCL, YOU MUST: *
/* 1) PERFORM MODIFICATION TO INLINE //CIGIN DATA. *
/* SAMPLE PROVIDED WILL NOT COMPILE AS DELIVERED. *
/* 2) INSERT A VALID JOB CARD WITH VALID CLASS AND REGION=0M *
/* 3) CHANGE THE UNIT=TDISK AS PER THE WORKSHEET. *
/* -----*
/* *
/* STEP 1: PARSE CIGINI SYNTAX. BUILD INPUT FOR ASSEMBLER. *
/* *
/* The alternate CIGINI file requires minimal *
/* parameters as shown below. *
/* -----*
/*
//PARSE EXEC PGM=BZZMPILE
//STEPLIB DD DSN=BZZ.SBZZLOAD,DISP=SHR
//CIGPUNCH DD DSN=&&TEMP,DISP=(NEW,PASS),
// UNIT=TDISK,SPACE=(10,10),
// DCB=(BLKSIZE=3120,LRECL=80,RECFM=FB)
//CIGLOG DD SYSOUT=*
//CIGIN DD *
DEFINE COMMON SECTION
PRODUCT LOADLIB = 'BZZ.SBZZLOAD'
DEFINE BRSCLM SECTION
PASSWORD = PASSWORD
VSAM DSNAME = 'BZZ.ARCHIVAL.DATABASE'
/*
/* -----*
/* *
/* STEP 2: ASSEMBLE THE ARCHIVE CIGINI INPUT CREATED IN STEP 1. *
/* *
/* -----*
/* ASMA90 (HL-ASM)
/* IEV90 (ASSEMBLER-H)
//ASM EXEC PGM=ASMA90,
// REGION=3072K,
// COND=(0,NE),
// PARM='NODECK,OBJECT,NOTERM,LIST,XREF(SHORT)'
//SYSIN DD DSN=&&TEMP,DISP=(OLD,DELETE)
//SYSLIB DD DSN=SYS1.MACLIB,DISP=SHR
//SYSLIN DD DSN=&&SYSLIN,
// UNIT=TDISK,SPACE=(TRK,(3,5)),
// DISP=(NEW,PASS,DELETE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200)
//SYSPUNCH DD DUMMY
//SYSUT1 DD UNIT=TDISK,SPACE=(TRK,(5,15))
//SYSPPRINT DD SYSOUT=*
```

Figure 11. BZZARJ02 - Archive CIGINI file creation (Part 1 of 2)

```

/*-----*
/*
/* STEP 3: LINK EDIT THE ARCHIVE CIGINI MODULE.
/*
/*      The Archive CIGINI will be referenced by
/*      the Breeze utilities via the CIGINI dd statement.
/*      The example below shows the name of the alternate
/*      CIGINI load module to be BZZARINI.
/*
/*-----*
//LINK      EXEC PGM=IEWL,
//          REGION=2048K,
//          PARM='LIST,NCAL,XREF,LET,RENT,REUS',
//          COND=(0,NE)
//SYSPRINT DD  SYSOUT=*
//SYSLIN   DD  DSN=&&SYSLIN,
//          DISP=(OLD,DELETE,DELETE)
//SYSLMOD  DD  DSN=BZZ.SBZZLOAD(BZZARINI),DISP=SHR
//SYSUT1   DD  UNIT=TDISK,SPACE=(TRK,(5,15))

```

Figure 11. BZZARJ02 - Archive CIGINI file creation (Part 2 of 2)

Component 5: Loading extracted records into the Breeze archival database

Once the Breeze archive database has been defined, you need to load EXTRACTED records into the Breeze archive database.

Figure 12 on page 44 shows the JCL used to load extracted records created from Figure 8 on page 38. The JCL shown is the same as Figure 9 on page 40, except the target database is the Breeze archival database rather than the Breeze production database.

Archival processing

```
/***(JOB CARD)
/**
/** ----- *
/** NAME:      BZZARJ07 *
/** PURPOSE:   THE PURPOSE OF THIS JCL IS LOAD EXTRACTED RECORD *
/**           ONTO THE ARCHIVAL DATABASE *
/** ----- *
/** TO USE THIS JCL, YOU MUST: *
/**           1) INSERT A VALID JOB CARD WITH VALID CLASS *
/** ----- *
/**
/** -----
/** STEP1 sorts the data to be loaded into the
/** Breeze archival database.
/** -----
/**STEP1 EXEC PGM=SORT
/**SYSIN DD *
        SORT FIELDS=(1,720,CH,A),FILSZ=E2000,DYNALLOC
        SUM FIELDS=NONE
/**SYSOUT DD SYSOUT=*
/**SORTIN DD DSN=BZZ.ARCHIVE.FLAT720,DISP=SHR
/**SORTOUT DD DSN=BZZ.ARCHIVE.FLAT720,DISP=SHR
/** -----
/** STEP2 loads the extracted Breeze records into a
/** Breeze archival database.
/** -----
/**STEP2 EXEC PGM=IDCAMS,COND=(0,NE)
/**SYSIN DD *
        REPRO INFILE(CIGXTRCT) OUTFILE(BZZDB) REPLACE
/**SYSPRINT DD SYSOUT=*
/**CIGXTRCT DD DSN=BZZ.ARCHIVE.FLAT720,DISP=SHR
/**BZZDB DD DSN=BZZ.ARCHIVAL.DATABASE,DISP=SHR
```

Figure 12. BZZARJ07 - Archive database load JCL

Component 6: Viewing and reporting archived packages contained in the Breeze archival database

Once the Breeze archival database is loaded, you can run any of the Breeze utilities against the Breeze archival database by adding the `//CIGINI DD` statement to your JCL and referencing the alternate CIGINI file as defined in Figure 11 on page 42.

Figure 13 on page 45 shows an example of running a Breeze report against the Breeze archival database.


```

/***(JOB CARD)
/** -----*
/** NAME:      BZZARJ06                               *
/** PURPOSE:  JCL FOR BREEZE PACKAGE REPORTING.       *
/**           THIS JCL WILL EXECUTE THE BATCH PACKAGE *
/**           DETAIL REPORT FOR THE BREEZE ARCHIVE    *
/**           DATABASE.                               *
/** -----*
/** TO USE THIS JCL, YOU MUST:                       *
/**           1) INSERT A VALID JOB CARD WITH VALID  *
/**           CLASS AND REGION=0M                    *
/** -----*
/**
/** -----
/** STEP1 reports on all packages contained in the
/** Breeze archival database.
/** -----
/**REPORT EXEC PGM=BZZS0000
/**STEPLIB DD DSN=BZZ.SBZZLOAD,DISP=SHR
/**CIGLOG DD SYSOUT=*
/**CIGRPT DD SYSOUT=*
/**CIGIN DD *
/**          REPORT PACKAGES * OPTIONS ALL.
/**CIGINI DD DSN=BZZ.SBZZLOAD(BZZARINI),DISP=SHR

```

Figure 13. BZZARJ06 - Archive database Report JCL

Figure 14 shows how to extract packages contained in the Breeze archival database. Such packages might be subsequently restored back into the Breeze production database as shown in Figure 9 on page 40.

```

/** JOB CARD
/** -----*
/** NAME:      BZZARJ04                               *
/** PURPOSE:  EXTRACT BREEZE PACKAGE RECORDS         *
/** -----*
/** TO USE THIS JCL, YOU MUST:                       *
/**           1) INSERT A VALID JOB CARD WITH VALID  *
/**           CLASS AND REGION=0M                    *
/**           2) CHANGE FLHQ1 AS PER THE INSTALLATION *
/**           WORKSHEET.                              *
/**           3) CHANGE THE UNIT=TDISK AS PER THE    *
/**           INSTALLATION WORKSHEET                 *
/**           4) CHANGE PKGXXXX TO A MEANINGFUL     *
/**           PACKAGE NAME                           *
/** -----*
/**
/** -----
/** STEP1 extracts Breeze package records from
/** the Breeze database defined to the CIGINI file.
/** -----
/**STEP1 EXEC PGM=BZZSAPD1
/**STEPLIB DD DSN=BZZ.SBZZLOAD,DISP=SHR
/**CIGLOG DD SYSOUT=*
/**CIGIN DD *
/**          EXTRACT PACKAGE = .....
/**          PROJECT = .....
/**          ALTPROJ = .....
/**          GROUP = .....
/**          TYPE = .....
/**
/**CIGXTRCT DD DSN=FLHQ1.EXTRACT.PKGXXXX,
/**          DISP=(NEW,CATLG,DELETE),
/**          UNIT=TDISK,SPACE=(CYL,(1,1),RLSE),
/**          DCB=(RECFM=FB,LRECL=720)
/**CIGINI DD DSN=BZZ.SBZZLOAD(CIGINI),DISP=SHR

```

Figure 14. BZZARJ04 - Package extract JCL

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Glossary

activity log. See *log*.

administrator. Person responsible for using batch utilities on the host to:

- Define Breeze records for inventory junctions, approver groups and individual approvers
- Create reports of package activity
- Delete Breeze records of old packages

APPROVED. A package status. Indicates either:

- The package was in PENDING status, and approvers have voted. In every approver group, there is a quorum of votes; all required approvers have voted and more than half of the votes cast were “for” (approve) votes. The package has not yet been promoted.
- or
- The package does not require approval, but has not yet been promoted.

If the package reaches APPROVED status before its execution window end date, then the package can be promoted.

However, if there is a problem with the SCLM promote copy or purge phase, then the promotion will fail, and the package will go into INCOMPLETE status.

approver. A Breeze user who is responsible for voting on (approving or vetoing) requests to promote members from a particular inventory location to the next higher group in the project hierarchy.

To vote, approvers use either the Breeze Web interface or the host-based voting batch utility. Approvers can use the Breeze Web interface to leave notes explaining their vote, and view package information: summaries, status, activity logs, source member contents and line-by-line changes, member collisions, ballot (who has voted, and how) and notes left by other approvers.

If your site does not use Breeze for voting, then there will be no approvers defined, and the role of administrator will be limited to creating reports of package activity and deleting Breeze records of old packages.

approver group. A set of approvers. An approver group can be assigned to an inventory location by an inventory junction record.

blank. A package status. Indicates that the Breeze administrator has run the delete batch utility on a package, leaving only summary and log information. Alternatively, the package has been rebuilt since the request for approval. The package cannot be promoted (because source members might have been changed).

general user. A Breeze user who can use the Breeze Web interface to view package information. Unlike approvers, general users cannot vote. A general user is anyone with a TSO user ID on the host where Breeze is installed.

host. The OS/390 or z/OS system where Breeze is installed.

INCOMPLETE. A package status. Indicates that there has been a problem with the second promote, such as a space problem in the target data set, and the promote will fail. In this instance, Breeze will change the status of the package being promoted to INCOMPLETE.

inventory junction record. A type of Breeze record that links an inventory location to an approver group.

inventory location. A particular SCLM project, group, type and language. Identifies a set of source members in an SCLM project hierarchy.

log. A history of the actions performed on a package. Contains the action type, date and time, return code and user ID that performed the action.

package. An SCLM high-level (HL) architecture member. Developers create packages to identify source members that should be promoted together because they contain related changes. For details, see the *SCLM Project Manager's and Developer's Guide*.

package status. One of the following: PENDING, APPROVED, VETOED, PROMOTED, INCOMPLETE or blank.

PENDING. A package status. Indicates that a developer has used the SCLM promote function to request approval to promote a package. Breeze caused the promote function to fail because the package requires approval. Approvers can now vote on the package.

PROMOTED. A package status. Indicates that SCLM has promoted the package.

quorum. The number of votes required in an approver group before the group vote can be decided as “approve” or “veto”. (An approver group with required approvers cannot have a quorum of zero. A quorum must be equal to or greater than the number of required approvers in the group.)

required approver. An approver whose vote is required before the vote of the approver group can be decided.

VETOED. A package status. Indicates that, in at least one approver group, there is a quorum of votes, all required approvers in the group have voted, and at least half of the votes cast by the group were “against” (veto) votes. The package cannot be promoted.

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