
Chicago Interface Group, Inc.

BREEZE Reference Guide



V 7.0

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How to Use This Manual

Breeze and Package Utilities are now combined into a single product offering. The Package Utilities component includes the ISPF end-user interface, batch utilities, and Endeavor exits. Breeze includes email notification and the browser interface.

This manual contains information for all TSO/ISPF users. It contains installation, diagnostic, product structure, and usage chapters.

For TSO/ISPF end-users not interested in installation or implementation, focus should be on Concepts and the ISPF end-user interface.

End users who only use the browser front-end and receive email notifications should refer to the Breeze Reference Guide.

Administrators and System Programmers will want to reference both the *Package Utilities Reference Guide* and *Breeze Reference Guide*.

This document assumes that Breeze and CIG Package Utilities have been installed. Refer to the *CIG Installation Guide* for information on how to install CIG's products.

Chapter 1: Overview

Introduction

Production Turnover and Release Management

BREEZE is a browser-based approval system for mainframe computing systems. BREEZE provides a user friendly interface that helps managers and programmers do their job from any workstation.

The best production turnover and release management procedures are handicapped without an effective delivery mechanism. Although many organizations utilize some form of electronic approvals for release management and production turnover, these approval systems are typically built upon legacy SCM or change management platforms. These platforms require ISPF or TSO access to investigate, review, and approve change or release packages.

BREEZE provides managers with the tools necessary to analyze the impact of approving or denying source changes, including:

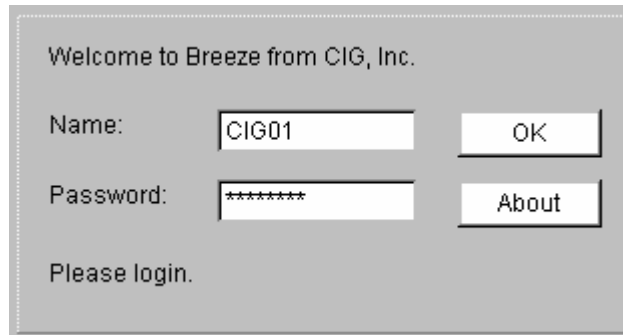
- Pre-set package query filters, such as Packages by Status, Packages by Type, or All Packages Awaiting Approval. This allows busy users to view only those packages that require their immediate attention.
- The ability to sort and view selected packages by type and crucial execution windows.
- Facilities to view key package information, including package contents, package log, summary and collision information before making final approval decisions.
- The ability to add notes to packages and notify other approvers.
- The ability to browse history and changes.

How does it work?

BREEZE incorporates email-based notification with a browser-based interface that allows managers to log into approval systems from the road or from regionally-separated corporate locations.

When a source change is made, an email is sent to all approvers in the relevant approver group indicating that there are packages in need of approval. Within the email message is a link that launches the BREEZE product.

Once the BREEZE product downloads from the mainframe, you will be prompted with a log in screen, shown below. Enter your mainframe user id and password and click OK.



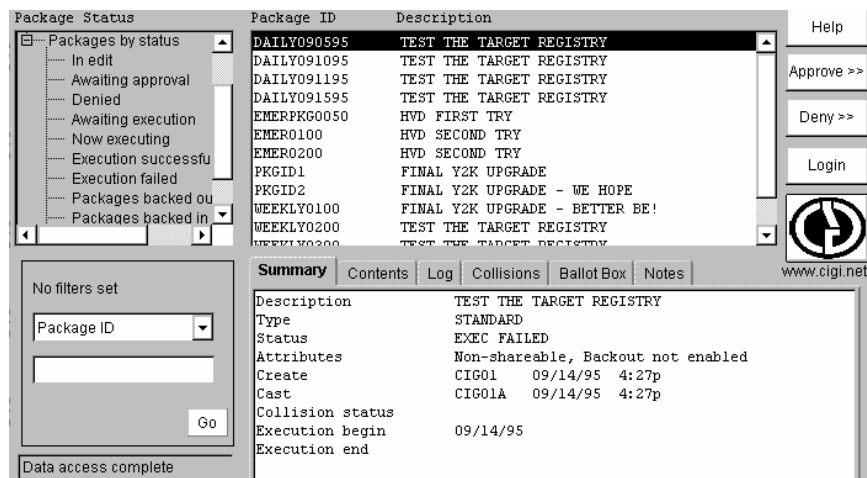
Welcome to Breeze from CIG, Inc.

Name:

Password:

Please login.

Clicking on the About button will display version and release information about the BREEZE product.



The screenshot shows the BREEZE application interface. On the left, there is a 'Package Status' tree with options like 'In edit', 'Awaiting approval', etc. The main area displays a table of packages:

| Package ID | Description |
|-------------|--------------------------------|
| DAILY090595 | TEST THE TARGET REGISTRY |
| DAILY091095 | TEST THE TARGET REGISTRY |
| DAILY091195 | TEST THE TARGET REGISTRY |
| DAILY091595 | TEST THE TARGET REGISTRY |
| EMERPRG0050 | HVD FIRST TRY |
| EMER0100 | HVD SECOND TRY |
| EMER0200 | HVD SECOND TRY |
| PKGID1 | FINAL Y2K UPGRADE |
| PKGID2 | FINAL Y2K UPGRADE - WE HOPE |
| WEEKLY0100 | FINAL Y2K UPGRADE - BETTER BE! |
| WEEKLY0200 | TEST THE TARGET REGISTRY |
| WEEKLY0300 | TEST THE TARGET REGISTRY |

Below the table is a 'Summary' view for the selected package (DAILY090595):

| Field | Value |
|------------------|------------------------------------|
| Description | TEST THE TARGET REGISTRY |
| Type | STANDARD |
| Status | EXEC FAILED |
| Attributes | Non-shareable, Backout not enabled |
| Create | CIG01 09/14/95 4:27p |
| Cast | CIG01A 09/14/95 4:27p |
| Collision status | |
| Execution begin | 09/14/95 |
| Execution end | |

On the right side, there are buttons for 'Help', 'Approve >>', 'Deny >>', and 'Login'. A logo for CIG is also visible.

Prerequisite knowledge

This product assumes a working knowledge of Endeavor Package Processing and related terminology on the part of the user. Refer to CIG Package Utilities Reference Guide.

Chapter 2: Customization

Before you start

This chapter assumes that you have already installed and customized the CIG Package Utilities. Refer to the *CIG Package Utilities Reference Guide – Implementation* chapter prior to starting your Breeze customization effort.

This chapter also assumes that you have installed Breeze based on instructions contained in the *CIG Product Installation Guide*.

Components

There are two Breeze components that require customization: Breeze Server components and Email notification components.

The Breeze server is an HTTP server. The server can run as a batch job or as a started task.

The Breeze email components includes SMTP considerations, email user lists, JCL to send email,

Breeze HTTP Server JCL - CIGBRSRV

Breeze HTTP server JCL is shown below. The JCL sample is included in the product JCLLIB as member CIGBRSRV.

```
//* (JOB CARD)
/*****
/*      NAME....: CIGBRSRV
/*      PURPOSE : JCL TO INVOKE THE BREEZE SERVER.
/*
/*****
/*      * * *   N O T I C E   * * *
/*      THIS PROGRAM IS A PROPRIETARY PRODUCT OF CHICAGO INTERFACE
/*      GROUP, INC. @ COPYRIGHT 2005 CHICAGO INTERFACE GROUP, INC.
/*      ALL RIGHTS RESERVED.
/*****
/*
/*      **
/*      ** PRODUCT INSTALLATION/SETUP ISSUES **
/*      **
/*      THE FOLLOWING IS A LIST OF MODIFICATIONS REQUIRED DURING PRODUCT
/*      INSTALLATION AND INITIAL SETUP:
/*
/*      1. INCLUDE A VALID JOB CARD
/*      2. CHANGE THE FLHQ1.FLHQ2 TO POINT TO THE PRODUCT
/*      LOADLIB, JAVALLIB AND JCL LIBRARIES.
/*      3. CHANGE THE BREEZEPORT TO THE VALUE IN THE WORKSHEETS.
/*      4. MAKE SURE THE TCP LIBRARY IS INCLUDED IN THE
/*      STEPLIB.
/*      5. MAKE SURE THAT ALL LIBRARIES IN THE STEPLIB
/*      ARE AUTHORIZED.
/*      6. INCLUDE THE THREE DD FILES NEEDED FOR BATCH
/*      JOB SUBMISSION:
/*          CIGJCLPK - ENDEVOR BATCH PACKAGE SHELL
/*          CIGJCLN  - ENDEVOR PRINT SERVICES SHELL
/*          CIGINRDR - INTERNAL READER
/*****
/*
/*      PRINTINI: PRINT THE CIGINI DEFINITIONS FOR DIAGNOSTIC PURPOSES.
/*
/*****
//PRINTINI EXEC PGM=PRINTINI
//STEPLIB DD DSN=FLHQ1.FLHQ2.LOADLIB,DISP=SHR
//CIGPRINT DD SYSOUT=*
/*****
/*
/*      CIGLISTN: BREEZE SERVER JCL
/*
/*****
//CIGLISTN EXEC PGM=CIGLISTN,PARM='PORT=PORTNO-BRZ'
//STEPLIB DD DSN=FLHQ1.FLHQ2.LOADLIB,DISP=SHR
// DD DSN=TCPIP.SEZATCP,DISP=SHR
//CIGJAVA DD DSN=FLHQ1.FLHQ2.JAVALLIB,DISP=SHR
//CIGLOG DD SYSOUT=*
//CIGOUT DD SYSOUT=*
//CIGINRDR DD SYSOUT=(A,INTRDR),DCB=(LRECL=80,BLKSIZE=800,RECFM=FB)
//CIGJCLPK DD DSN=FLHQ1.FLHQ2.JCLLIB(CIGBRPKG),DISP=SHR
//CIGJCLN DD DSN=FLHQ1.FLHQ2.JCLLIB(CIGBRPRT),DISP=SHR
/*-----
/* TO TURN ON INTERNAL TRACES UNCOMMENT THE FOLLOWING DD STATEMENTS
/* DO NOT RUN IN PRODUCTION WITH THE TRACES TURNED ON. THE TRACES
/* WILL CAUSE PERFORMANCE PROBLEMS.
/*-----
/*CIGXLSTN DD SYSOUT=*
/*CIGXSUBT DD SYSOUT=*
/*CIGFTP DD SYSOUT=*
```

The following describes the Breeze HTTP server JCL:

| | |
|------------------|--|
| JOB CARD | This is required only if you are running the Breeze server as a batch job. It is not required if you are running Breeze as a started task. If you run the Breeze server a batch job rather than a started task, then specify TIME=NOLIMIT on the jobcard. |
| PARM='PORT=nnnn' | The PORT=nnnn parameter tells the Breeze server the TCP/IP upon which the server should communicate with the browser. The \$\$HTML member in the Breeze Control dataset must reference the PORT= parameter specified here. |
| STEPLIB | All libraries in the concatenation must be APF authorized. Include the TCPIP.SEZATCP library in the concatenation if this library is not link listed. |
| CIGJAVA | Required. This is the name of the Breeze Control dataset. This dataset must match the dataset associated with the JAVASERVERCONTROL and NOTIFY RULES DSNAMES as defined to the CIGINI file. |
| CIGLOG | Required. Breeze messages will be written to this dataset. |
| CIGOUT | Required. Additional Breeze messages will be written to this dataset. |
| CIGINRDR | Required. This ddname references the internal reader that Breeze will submit batch jobs. Batch job submission is performed for package approval/deny and displaying Endeavor elements. |
| CIGJCLPK | Required. This is the JCL member that will be tailored and submitted when browser users approve or deny a package. This JCL must be customized. Refer to the section below for a discussion of the member CIGBRPKG. |
| CIGJCLN | Required. This is the JCL member that will be tailored and submitted when browser users display Endeavor elements. This JCL must be customized. Refer to the section below for a discussion of the member CIGBRPRT. |
| CIGTRACE | Optional. This ddname activates Breeze tracing. If specified, it must be DD DUMMY as is shown in the sample JCL above. It is required if CIGXLISTN, CIGXSUBT, or CIGFTP is specified. Refer to Appendix A for more information on tracing. |
| CIGXLISTN | Optional. Issues trace messages associated with the Breeze TCP/IP server component. If specified, then CIGTRACE must also be allocated. Refer to Appendix A for more information on tracing. |
| CIGXSUBMT | Optional. Issues trace messages associated with the application component of the Breeze server. If specified, then CIGTRACE must also be allocated. Refer to Appendix A for more information on tracing. |
| CIGFTP | Optional. Issues trace messages associated with batch |

| | |
|--|--|
| | job submission performed by the Breeze server. If specified, then CIGTRACE must be allocated. Refer to Appendix A for more information on tracing. |
|--|--|

Breeze Control Dataset

The Breeze Control Dataset is defined to both the CIGINI file via the JAVASERVERCONTROL and NOTIFY RULES DSNNAME parameters. It is also defined to the Breeze server JCL (CIGBRSRV) via the CIGJAVA ddname.

| | |
|---------------------|---|
| \$\$\$\$SMTP | This member is used to send email package approval requests. Configuration of the \$\$\$\$SMTP member is discussed in the <i>CIG Product Installation Guide</i> . |
| \$\$HTML | This HTML file is emailed to Breeze users when package approval is required. This member must be customized to include the URL and port associated with the Breeze server as specified in the PARM= parameter of member CIGBRSRV. |
| \$APINDEX | <p>This member specifies a list of Endeavor approver groups and the corresponding member that contains associated email list. The following shows an example three approver groups and related members in the Breeze Server Control Library.</p> <p>Member: \$APINDEX ALLDEV EMAIL#1 OPSGROUP EMAIL#2 VAJDEV EMAIL#3</p> <p>Member: EMAIL#1 bruce@cigi.net tom@cigi.net sally@cigi.net</p> <p>Member: EMAIL#2 terry@cigi.net mike@cigi.net</p> <p>Member: EMAIL#3 george@cigi.net pete@cigi.net</p> |
| \$CONTROL | This member is required if the PARM='PORT=nnnn' is omitted from the CIGBRSRV Breeze Server JCL. |
| \$NOEMEXE | By default, emails will be sent to all approver groups defined in the \$APINDEX member when Endeavor packages execution occurs. You can suppress sending emails during package execution by defining the |

| | |
|-----------------|---|
| | <p>member \$NOEMEXE. If you wish users to receive email notification of Endeavor package execution, then delete the member \$NOEMEXE.</p> <p>Member: \$NOEMEXE SKIP EMAIL ON EXECUTION</p> |
| BREEZE | <p>This is the HTML invoked by users to launch the Breeze applet in the user's browser. This member corresponds to the html specification found in \$\$HTML as described about. In the \$\$HTML member, the specification of <i>breeze.html</i> corresponds to the the member <i>BREEZE</i>.</p> <p>User's can invoke the Breeze browser application without referencing Breeze email notification by specifying the following URL in their browser:</p> <p>//http://breeze.url:port/breeze.html</p> <p>The <i>breeze.url</i> must match the URL and port specified in the \$\$HTML member.</p> |
| BREEZEJA | <p>This is the Breeze applet as referenced in the BREEZE member.</p> |
| CIGLOGO | <p>This is CIG logo that will appear in the Breeze applet as seen in the browser.</p> |
| DSNNOTE | <p>This member is used by email notification to send emails to SMTP via a permanent file versus the SMTP writer. DSNNOTE is useful to verify the contents of emails sent to Breeze users. Refer to Appendix B for more information on DSNNOTE.</p> <p>If the member DSNNOTE is present in the Breeze control file, then Breeze will allocate permanent datasets corresponding to the high-level qualifier as specified in the DSNNOTE member, write the SMTP commands to the allocated dataset, and then invoke SMTP to send the email located in the allocated dataset.</p> <p>If the member DSNNOTE does not exist in the Breeze control file, then Breeze will send emails directly to SMTP the the SMTP writer.</p> <p>Example of member DSNNOTE: BREEZE.\$EMAIL.</p> |
| TESTTO | <p>This member is used to test sending of emails. Refer to JCL member CIGSMJX4 for the corresponding JCL. The first row in TESTTO an email id. The second row is a TSO userid.</p> |

| | |
|--|---|
| | Example of member TESTTO: mike@cigi.net MIKETSO |
|--|---|

Breeze JCL members

The following JCL members, found in the CIG JCLLIB, are used by Breeze:

| | |
|-----------------|---|
| CIGBRSRV | This is the Breeze Server JCL. This member was previously described. |
| CIGBRPKG | This JCL is submitted by the Breeze server when a user approves or denies a packages. |
| CIGBRPRT | This JCL is submitted by the Breeze server when a browser user requests Endeavor print requests, such as a request to display an element. |
| CIGSMJX4 | This JCL member tests Breeze email notification. |
| CIGSMJ04 | JCL to compile and link-edit the CIGINI file. |

```
Member: CIGBRPKG

//JCL1      JOB (ACCT#), 'NAME', CLASS=A, REGION=4096K,
//          MSGCLASS=H, MSGLEVEL=(1,1),
//JCL1_USER, PASSWORD
//* -----
//* ALTERNATIVES
//* -----
//*JCL1     JOB (ACCT#), 'NAME', CLASS=A, REGION=4096K,
//*        MSGCLASS=H, MSGLEVEL=(1,1), <==
//*JCL1_USER
//* -----
//* NOTE
//* //JCL1 IS REPLACED WITH USERID PLUS A J
//* //JCL1_USER OR //JCL1_USER,PASSWORD MUST BE THE LAST JOB STATEMENT
//* NO COMMA AFTER THE LAST VARIABLE WILL BE SET
//* PLUS THERE MUST BE A COMMA AFTER THE SECOND OR NTH LINE OF JOB STM
//* -----
//*      NAME.....: CIGBRPKG
//*      PURPOSE  : ENDEVOR BATCH PACKAGE JCL SHELL FOR BROWSER.
//*
//* -----
//*      * * *   N O T I C E   * * *
//*      THIS PROGRAM IS A PROPRIETARY PRODUCT OF CHICAGO INTERFACE
//*      GROUP, INC. @ COPYRIGHT 2005 CHICAGO INTERFACE GROUP, INC.
//*      ALL RIGHTS RESERVED.
//* -----
//*
//* **
//* ** PRODUCT INSTALLATION/SETUP ISSUES **
//* **
//* THE FOLLOWING IS A LIST OF MODIFICATIONS REQUIRED DURING PRODUCT
//* INSTALLATION AND INITIAL SETUP:
//*
```

```

/**      1. IMPORTANT!! LEAVE JOB NAME AS //JC1. SERVER EXPECTING
/**      TO BUILD JOB NAME FROM BROWSER DATA.
/**      2. IMPORTANT!! THE //ENPSCLIN DD MUST REMAIN AN INSTREAM
/**      DD CARD. THE SERVER WILL BE BUILDING THE SCL AND
/**      INSERTING.
/**      3. INCLUDE VALID JOB CARD INFORMATION ( ACCT#, CLASS, ETC)
/**      4. CHANGE THE STEPLIB AND CONLIB TO POINT TO THE
/**      CURRENT ENDEVOR LIBRARIES AT THE YOUR INSTALLATION.
/**
/*******
/**      BATCH PACKAGE JCL SHELL FOR BROWSER.
/**      POINT TO THIS MEMBER IN THE CIGBRSRV SERVER JCL ( DD=CIGJCLPK)
/*******
//BPKG01 EXEC PGM=NDVRC1,PARM='ENBP1000',DYNAMNBR=1500
//STEPLIB DD DISP=SHR,DSN=QUAL1.QUAL2.LOADLIB
//CONLIB DD DISP=SHR,DSN=QUAL1.QUAL2.CONLIB
//SYSTEM DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
/*******
/**      PACKAGE SCL REQUEST DATASET.
/**      INSTREAM DATA BUILT BY THE SERVER. DO NOT CHANGE DD ENPSCLIN.
/*******
//ENPSCLIN DD      *
/*
//C1MSG1 DD      SYSOUT=*
//C1MSG2 DD      SYSOUT=*

```

CIGBRPRT JCL – Endeavor print requests

```

Member: CIGBRPKG

//JC1      JOB (ACCT#), 'NAME', CLASS=A, REGION=4096K,
//          MSGCLASS=H, MSGLEVEL=(1,1),
//JC1_USER,PASSWORD
/**-----
/**      JOB CARD USAGE NOTE:
/**      //JC1 IS REPLACED WITH USERID PLUS A J
/**      //JC1_USER OR //JC1_USER,PASSWORD MUST BE THE LAST JOB STATEMENT.
/**      THESE DIRECTIVES WILL BE REPLACED WITH // USER=USERID OR
/**      // USER=USERID,PASSWORD.
/**-----
/**      NAME....: CIGBRPRT
/**      PURPOSE : ENDEVOR PRINT SERVICES JCL SHELL FOR BROWSER.
/**
/**      * * *   N O T I C E   * * *
/**      THIS PROGRAM IS A PROPRIETARY PRODUCT OF CHICAGO INTERFACE
/**      GROUP, INC. @ COPYRIGHT 2005 CHICAGO INTERFACE GROUP, INC.
/**      ALL RIGHTS RESERVED.
/**-----
/**
/**      **
/**      ** PRODUCT INSTALLATION/SETUP ISSUES **
/**      **
/**      THE FOLLOWING IS A LIST OF MODIFICATIONS REQUIRED DURING PRODUCT
/**      INSTALLATION AND INITIAL SETUP:
/**
/**      1. IMPORTANT!! LEAVE JOB NAME AS //JC1. SERVER EXPECTING
/**      TO BUILD JOB NAME FROM BROWSER DATA.
/**      2. IMPORTANT!! THE //BSTIPT01 DD MUST REMAIN AN INSTREAM
/**      DD CARD. THE SERVER WILL BE BUILDING THE SCL AND
/**      INSERTING.
/**      3. INCLUDE VALID JOB CARD INFORMATION ( ACCT#, CLASS, ETC)
/**      4. CHANGE THE STEPLIB AND CONLIB TO POINT TO THE
/**      CURRENT ENDEVOR LIBRARIES AT THE YOUR INSTALLATION.
/**      5. CHANGE THE FLHQ1.FLHQ2 TO POINT TO THE PRODUCT LIBRARY.
/**      6. CHANGE TDISK TO A VALID TEMPORARY WORK UNIT.

```

```

/**      7. REVIEW THE HLQ1= DIRECTIVE AND CHANGE IT TO A HIGH LEVEL
/**      THAT WILL BE USED TO CREATE TEMPORARY WORK DATASETS
/**      READ AND DELETED BY THE SERVER.
/**      STANDARD: FLHQ1.USERID.DYYMDD.THMM
/**      9/12/2001 &SYSUID IS NOW SUPPORTED AS THE FIRST NODE.
/** Z130217A C2715 ADDED BREEZE2 STEP
/*******
/** JCL SHELL FOR BROWSER - ENDEVOR PRINT REQUEST
/** POINT TO THIS MEMBER IN THE CIGBRSRV SERVER JCL, DD=CIGJCLN
/*******
//BREEZE EXEC PGM=NDVRC1,PARM='C1BM3000',DYNAMNBR=1500
//STEPLIB DD DISP=SHR,DSN=QUAL1.QUAL2.LOADLIB
//CONLIB DD DISP=SHR,DSN=QUAL1.QUAL2.CONLIB
//SYSTEM DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
/*******
/** DO NOT CHANGE THE //BSTIPT01 DD DEFINITION BELOW.
/** THE INPUT TO THE PRINT WILL BE CREATED DYNAMICALLY BASED
/** ON REQUEST FROM THE USER.
/*******
//BSTIPT01 DD *
/*
/*******
/** CAPTURE MESSAGES IN CASE OF ERROR.
/*******
//C1MSG1 DD DSN=&&TEMP,
//      DISP=(NEW,PASS),
//      UNIT=TDISK,SPACE=(TRK,(45,45)),
//      DCB=(LRECL=133,BLKSIZE=26600,RECFM=FB)
//C1MSG2 DD SYSOUT=*
/*******
/** THE OUTPUT FILE NAME MUST BE CIGPRINT.
/** THE DATASET NAME WILL BE BUILT DYNAMICALLY BASED ON USERID,
/** DATE AND TIME. THIS FILE DEFINITION MUST BE MODELED AFTER THE
/** FOLLOWING JCL. THE HLQ1= PARAMETER MUST BE ON THE FIRST LINE OF
/** CIGPRINT DD AND IT MUST BE THE ONLY PARAMETER ON THE LINE.
/** THE GENERATED NAME OF THE FILE WILL BE:
/**      HLQ1.USERID.DYYMDD.THMM
/*******
/** EFFECTIVE 9/12/2001 HLQ1=&SYSUID IS SUPPORTED. THIS USAGE WILL
/** CAUSE THE SERVER TO USER THE USERID AS THE FIRST NODE OF THE DSN.
/*******
//CIGPRINT DD HLQ1=CIGT
//      DISP=(,CATLG,KEEP),
//      UNIT=TDISK,SPACE=(TRK,(45,45)),
//      DCB=(LRECL=133,BLKSIZE=26600,RECFM=FB)
/**
/*******
/** ALLOCATE CIGPOST DD SO BREEZE CAN PROCESS THE CIGPRINT OUTPUT
/** CREATED THE BREEZE STEP. THIS WILL ELIMINATE THE CONTENTION FOR
/** THE CIGPRINT DSN THAT IS USED BY ENDEVOR
/*******
//BREEZE2 EXEC PGM=IEFBR14
//CIGPOST DD DSN=*.BREEZE.CIGPOST
//      DISP=(,CATLG,KEEP),
//      UNIT=TDISK,SPACE=(TRK,(1,1)),
//      DCB=(LRECL=80,BLKSIZE=80,RECFM=FB)
/**
/*******
/** IF THE RETURN CODE IS HIGHER THAN ZERO, THEN APPEND THE C1MSG1.
/** THE SYSOUT LINE BELOW WILL BE DISGARDED.
/** THE SYSOUT LINE WILL BE BUILT FROM THE DATASET NAME ALREADY
/** GENERATED IN A PREVIOUS STEP.
/*******
//ERROR EXEC PGM=LISTFILE,COND=(0,NE,BREEZE)
//STEPLIB DD DSN=FLHQ1.FLHQ2.LOADLIB,DISP=SHR
//SYSIN DD DSN=&&TEMP,DISP=(OLD,DELETE)
//SYSOUT DD DSN=*.BREEZE.CIGPRINT,

```

```
// DISP=MOD
```

CIGBRPKG JCL – Package Approval

```
Member: CIGSMJX4
```

```
/** (JOB CARD)
/** -----*
/** NAME: CIGSMJX4 *
/** PURPOSE: THE PURPOSE OF THIS JCL IS TO TEST THE SMTP CONTROL *
/** MEMBER $$$$SMTP AND THE SETUP OF EMAIL. MEMBER *
/** $HTML, AS SPECIFIED IN JAVASERVERCONTROL DSNAME *
/** PARAMETER, IS THE BZZINI/CIGINI FILE THAT WILL *
/** BE EMAILED TO THE USER(S) AS DEFINED IN THE TESTTO *
/** MEMBER OF THE JAVASERVERCONTROL LIBRARY. *
/** *
/** FILES USED BY THE CIGSMJX4/TSTEMAIL: *
/** $$$$SMTP - CONTROL INFORMATION USED TO *
/** COMMUNICATE WITH SMTP AND TSO SEND. *
/** $HTML - TEST MESSAGE TO BE SENT. *
/** TESTTO - USER(S) TO RECEIVE $HTML MESSAGE. *
/** *
/** -----*
/** MODIFY THIS JCL TO MEET YOUR SITE'S JCL NAMING STANDARDS. *
/** *
/** 1) INCLUDE A JOB CARD *
/** *
/** -----*
//TESTE EXEC PGM=TSTEMAIL
//STEPLIB DD DSN=FLHQ1.FLHQ2.LOADLIB,
// DISP=SHR
//CIGLOG DD SYSOUT=*
```

CIGSMJX4 JCL – SMTP email testing

```
Member: CIGSMJ04
```

```
/** (JOB CARD)
/** -----*
/** NAME: CIGSMJ04 *
/** PURPOSE: PARSE, COMPILE AND LINK THE CIGINI MODULE. *
/** -----*
/** TO USE THIS JCL, YOU MUST: *
/** 1) PERFORM MODIFICATION ON SAMPLE CIGINI MEMBER, CIGSMINI.*
/** SAMPLE PROVIDED BY CIG WILL NOT COMPILE AS DELIVERED. *
/** 2) INSERT A VALID JOB CARD WITH VALID CLASS AND REGION=OM *
/** 3) MAKE SURE THAT THE STEPLIB POINTS TO THE CIG PRODUCT *
/** INCLUDES THE DATASET THAT CONTAINS THE CIGINI AND *
/** CIGFEXEC. *
/** 4) CHANGE FLHQ1, FLHQ2, QUAL1 AND QUAL2 AS PER YOUR *
/** INSTALLATION SHEET *
/** 5) CHANGE THE UNIT=TDISK TO THE APPROPRIATE UNIT *
/** NAME FOR TEMPORARY FILES. *
/** 6) MAKE SURE THE SYSLMOD POINTS TO THE CIGT PRODUCT *
/** LIBRARY OR INTENDED EXECUTION LIBRARY. *
/** *
/** -----*
/** *
/** STEP 1: PARSE CIGINI SYNTAX. BUILD INPUT FOR ASSEMBLER. *
/** *
/** -----*
```

```

//PARSE      EXEC PGM=ICOMPILE
//STEPLIB   DD   DSN=FLHQ1.FLHQ2.LOADLIB,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   *
* ----- *
* THIS IS THE BREEZE FOR SCLM SAMPLE CIGINI INPUT.      *
* PLEASE MODIFY TO MEET YOUR NAMING STANDARDS.         *
* ----- *
DEFINE COMMON SECTION
  PRODUCT LOADLIB      = 'FLHQ1.FLHQ2.LOADLIB'
  JAVASERVERCONTROL DSNAME = 'FLHQ1.FLHQ2.JAVALIB'
                      MEMBER = $CONTROL
  NOTIFY RULES DSNAME = 'FLHQ1.FLHQ2.JAVALIB'

DEFINE BREEZE SECTION
  PASSWORD = 'password'

/*-----*
/*
/* STEP 2: ASSEMBLE THE CIGINI INPUT CREATED IN STEP 1.
/*
/* NOTE: CHOOSE THE DESTINATION OF YOUR CIGINI FILE.
/*
/*-----*
/* 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))
//SYSPRINT DD   SYSOUT=*
/*-----*
/*
/* STEP 3: LINK EDIT THE CIGINI MODULE
/*
/* NOTE: CHOOSE THE DESTINATION OF YOUR CIGINI FILE. IF YOU ARE
/* PLANNING ON USING AN ALTERNATE CIGINI MODULE, YOU MUST
/* FIRST BUILD A CIGINI THAT RESIDES IN A STEPLIB DATASET.
/*-----*
//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=FLHQ1.FLHQ2.LOADLIB(CIGINI),DISP=SHR
//SYSUT1   DD   UNIT=TDISK,SPACE=(TRK,(5,15))

```

CIGSMJ04 JCL – Compile and link CIGINI file

CIGINI file

The JCL member CIGSMJ04 contains the JCL used to compile the CIGINI file. Refer to the *CIG Package Utilities Reference Guide* customization chapter for more information on parameters needed to fully configure both Breeze and CIG Package Utilities.

Note: CIG Package Utilities must be configured prior to using Breeze.

The following lists the Breeze specific parameters.

| | |
|---------------------------------|--|
| DEFINE COMMON SECTION | Required. |
| PRODUCT LOADLIB | Name of the CIG product load library that contains Breeze executables (load modules). |
| JAVASERVERCONTROL DSNAME | Specifies the dataset name of the Breeze Control dataset. The dataset name must be enclosed in quotes. |
| NOTIFY RULES DSNAME | Specifies the dataset name of the Breeze Control dataset. The dataset name must be enclosed in quotes. |
| DEFINE BREEZE SECTION | Required. |
| PASSWORD | Required |

Configure the SMTP Server to support Email

The Email interface serves as a companion piece to the standard approver notification. Once selected as an approver, anytime there are packages in need of approval, the user will receive an email that contains the html link to the Breeze product.

To configure the SMTP server, you must know the following:

- The name of the SMTP server jobname.
- The SYSOUT class to write the SMTP data.
- The fully qualified machine name (for example, P390.CIGI.NET)

The above information can be found in the SMTPCONF and PROFILE members contained in your z/OS TCP/IP library.

Once you have the aforementioned information, you will specify that information to the \$\$\$\$SMTP member contained in the Breeze Control dataset. The following describes the \$\$\$\$SMTP member:

```
Member: $$$$SMTP
```

```
Q,SMTP  
P390.CIGI.NET  
INTERNAL_READER=B,INTRDR  
//SMTPRDR JOB 'SEND',REGION=4096K,MSGCLASS=X,CLASS=A,MSGLEVEL=(1,1),  
// NOTIFY=&SYSUID  
//STEP010 EXEC PGM=IKJEFT01  
//SYSTSPRT DD SYSOUT=*  
//SYSTSIN DD *
```

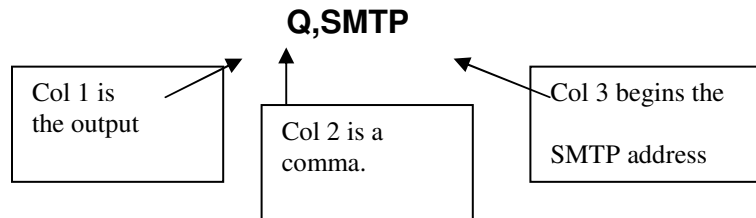
SMTP output class

Line 1: The output class is defined via the LOCALCLASS parameter in the z/OS SMTPCONF member. The SMTPCONF member is referenced by your SMTP server JCL.

SMTP address space

Line 1: The SMTP address space is the name of the SMTP started task. It is normally SMTP.

For example:



(Note that the default SMTP address name is SMTP.)

Line 2 also begins in column 1 and contains the fully qualified machine name (or IP address) terminated by a blank. For example:

local.myname.com

FROMUSER=

Optional. This value overrides the SMTP Mail from User id. If your installation requires a valid SMTP mail id, you must code one into this syntax. If your installation does not require a valid SMTP mail id, you may leave this blank as Breeze will default to your TSO userid. This row would proceed the JCL contained in the \$\$\$\$SMTP member.

For example,
FROMUSER=mike@cigi.net

INTERNAL_READER

is the class and program that handles the internal reader for batch TSO send commands.

// Section

is the REQUIRED JCL required through the SYSTSIN DD* line. Be sure to include a valid jobcard. The formatted send commands will be appended to this JCL and submitted to the internal reader.

Chapter 3: The BREEZE Interface

Getting to know the BREEZE interface

The BREEZE interface is divided into four sections:

- ❶ The “in-box,” which allows users to select packages grouped by approval and execution status.
- ❷ The filtering area allows users to limit the items in the package area using standard Endeavor filters.
- ❸ The package area includes Package Ids and Descriptions based on the in-box selection.
- ❹ The tabbed area at the bottom of the interface contains highly detailed package information, including contents, log, collision information, ballot box and notes.

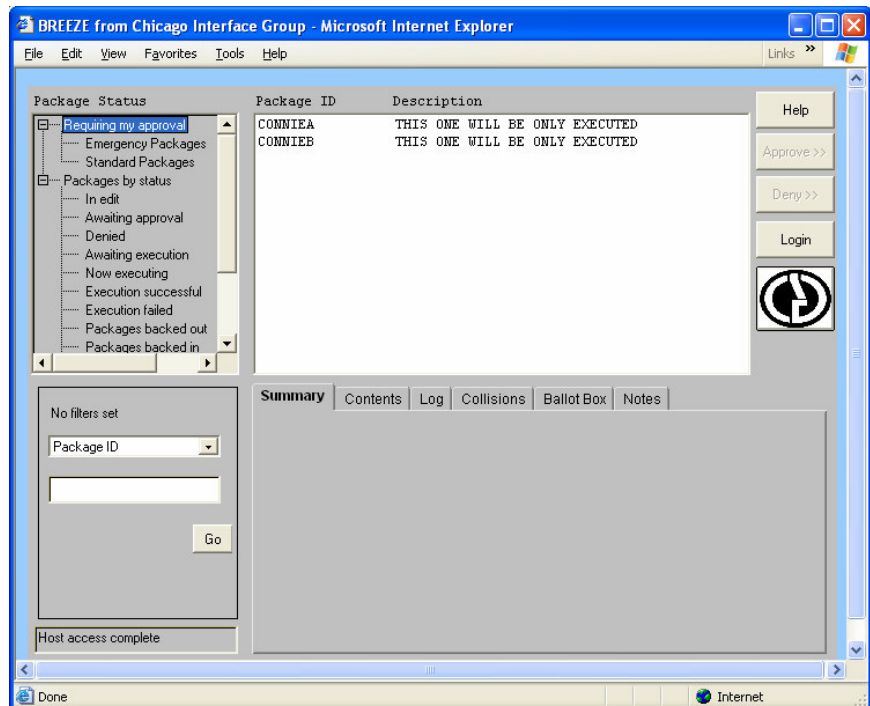
The screenshot displays the BREEZE interface with four numbered callouts:

- ❶** Points to the "Packages by status" list on the left, which includes options like "In edit", "Awaiting approval", "Denied", "Awaiting execution", "Now executing", "Execution successful", "Execution failed", "Packages backed out", and "Packages backed in".
- ❷** Points to the "No filters set" section, which includes a "Package ID" dropdown menu and a "Go" button.
- ❸** Points to the main table of packages, which has columns for "Package ID" and "Description". The table lists several packages, including "DAILY090595" and "DAILY091095", all with the description "TEST THE TARGET REGISTRY".
- ❹** Points to the "Summary" tab at the bottom, which displays detailed information for the selected package, including "Description", "Type", "Status", "Attributes", "Create", "Cast", "Collision status", "Execution begin", and "Execution end".

| Package ID | Description |
|-------------|--------------------------------|
| DAILY090595 | TEST THE TARGET REGISTRY |
| DAILY091095 | TEST THE TARGET REGISTRY |
| DAILY091195 | TEST THE TARGET REGISTRY |
| DAILY091595 | TEST THE TARGET REGISTRY |
| EMERPKG0050 | HVD FIRST TRY |
| EMER0100 | HVD SECOND TRY |
| EMER0200 | HVD SECOND TRY |
| PKGID1 | FINAL Y2K UPGRADE |
| PKGID2 | FINAL Y2K UPGRADE - WE HOPE |
| WEEKLY0100 | FINAL Y2K UPGRADE - BETTER BE! |
| WEEKLY0200 | TEST THE TARGET REGISTRY |
| WEEKLY0300 | TEST THE TARGET REGISTRY |

| Summary | |
|------------------|------------------------------------|
| Description | TEST THE TARGET REGISTRY |
| Type | STANDARD |
| Status | EXEC FAILED |
| Attributes | Non-shareable, Backout not enabled |
| Create | CIG01 09/14/95 4:27p |
| Cast | CIG01A 09/14/95 4:27p |
| Collision status | |
| Execution begin | 09/14/95 |
| Execution end | |

Area 1: The “In-Box”



Area 1 →

The in-box contains two major package groupings:

- Requiring my approval
- Packages by Status

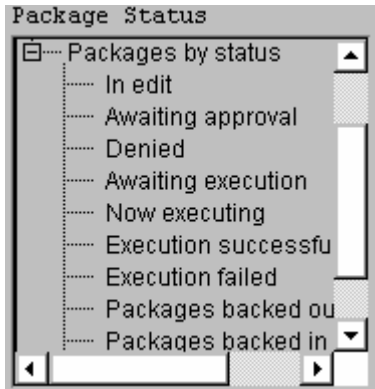
“Requiring my approval”

BREEZE defaults to this selection each time the product is launched. As shown in the figure above, the *Requiring my approval* heading is highlighted, and all packages requiring your approval are displayed in area 3—the package area—of the BREEZE interface.

If you wish to view only Emergency packages or only Standard packages, simply left-click on the selection and BREEZE will display your selection in the package area of the interface.

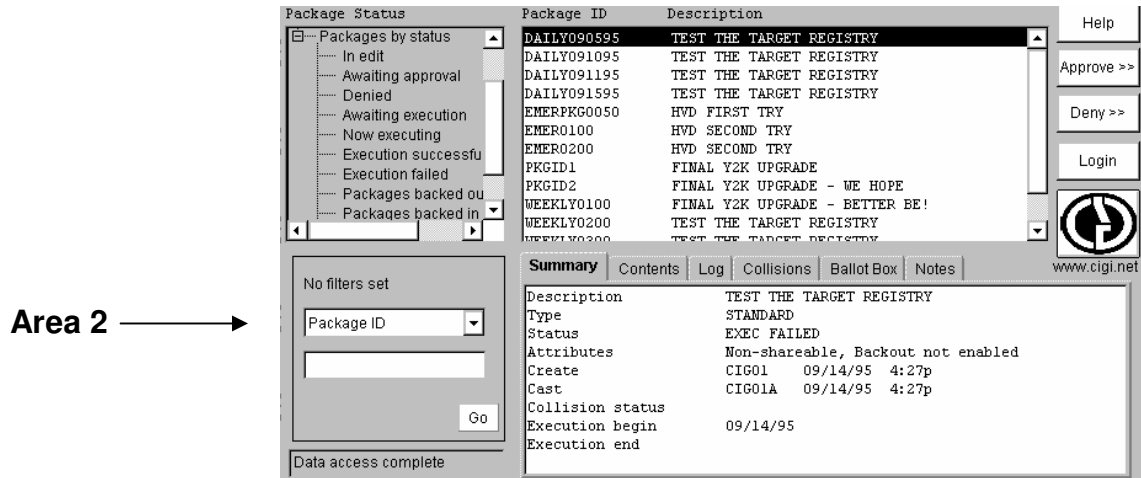
Packages by Status

There are eleven “by status” options available from the in-box. Left-click on the selection of your choice and BREEZE will display the relevant data in the package area of the interface.



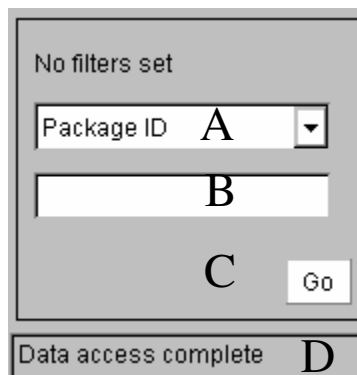
| | |
|-----------------------------|---|
| In-Edit | Lists packages that have been defined but not yet cast in Endeavor. |
| Awaiting Approval | Lists all packages, both emergency and standard, that are awaiting approval. |
| Denied Execution | Lists all packages that have been denied execution. |
| Awaiting Execution | Lists all packages that have been approved, but have not yet been executed. |
| Now Executing | Lists all packages that are in the process of being executed. |
| Execution Successful | Lists all packages that have been approved and successfully executed. |
| Execution Failed | Lists all packages that have failed in execution. |
| Packages Backed Out | Lists all change packages that have been backed out. |
| Packages Backed In | Lists all change packages that have been backed in. |
| Committed | Lists all packages that have been committed and therefore no longer have any backout/backin data available. |
| Deleted Packages | Lists all packages that have been deleted from Endeavor. |

Area 2: Filtering Options



The filtering area is comprised of the following:

- A. A pull-down menu of filtering choices, discussed below.
- B. An input box
- C. A GO button, that begins the search
- D. A status window



Use Filters

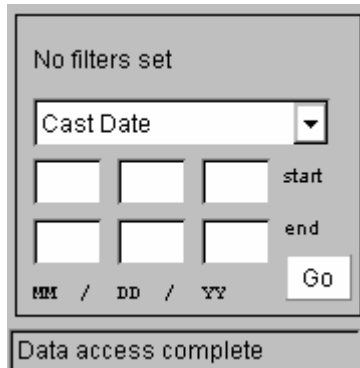
To engage filters, left-click this box with your mouse. BREEZE will use your filtering choices to further limit the results shown in the package area of the interface.

Filtering Options

The filtering options allow you to limit query results based on various package details.

| | |
|----------------------------|---|
| Package ID | 1 to 16 character Endeavor package id |
| Execution Window | The timeframe in which the package can be executed. Format for this field is YYMMDD |
| Create User ID | Mainframe user id of the package creator |
| Cast User ID | Mainframe user id of the person who cast the package |
| Cast Date | Date package was cast and placed in-approval status |
| Last Update User ID | Mainframe user id of the person who made the last update to the package |
| Last Update Date | Date the package was last updated |

Note that if you select any of the date filters, you will be prompted with a slightly different filter panel, shown below, wherein you can enter start and end dates. The format for date entries is MM/YY/DD.



The screenshot shows a filter panel titled "No filters set". A dropdown menu is set to "Cast Date". Below it are two rows of input fields. The first row is labeled "start" and the second row is labeled "end". Each row contains three input boxes for MM, DD, and YY. A "Go" button is located to the right of the "end" row. At the bottom of the panel, a status bar reads "Data access complete".

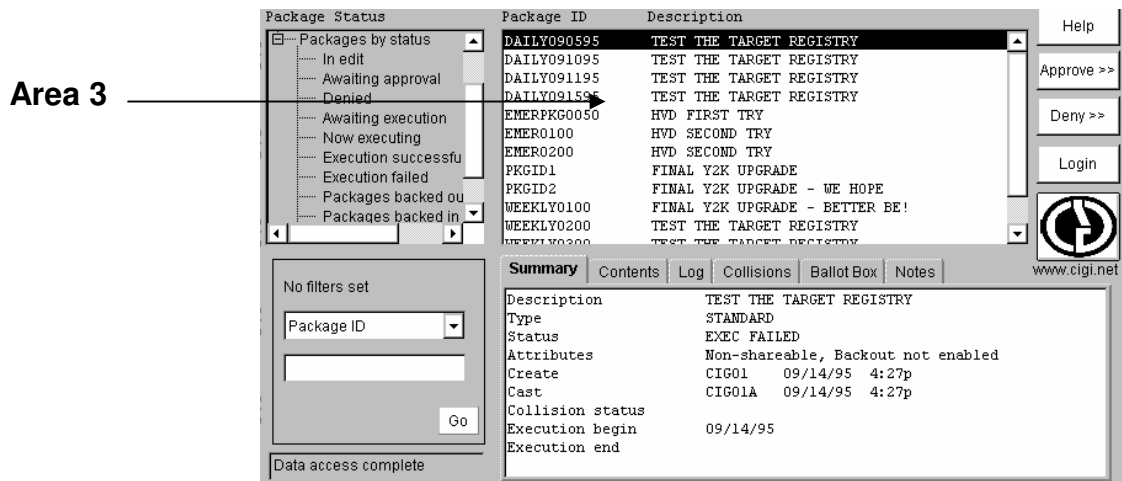
Input Field

The input field is tied to the filtering options selected above, and the inputs must be in the required format (see descriptions above).

Status Window

The status window displays communications messages throughout the product session. These messages will reflect contact between BREEZE and the CTS server, and will display any communication errors.

Area 3: Package Area



The package area contains:

- A display-only area that reflects the results of your package query. If filters were not in effect, then the display will reflect the in-box selection. If filters were in effect, the display will reflect those limits.
- Approve and Deny functionality

Approving and Denying Packages

When you first launch the BREEZE product, the Approve and Deny buttons will be grayed out, i.e., unavailable, as shown in the figure above. The buttons become functional only when you Select a package id by left-clicking on it.

Approving Packages

The process for approving packages in BREEZE is four-fold:

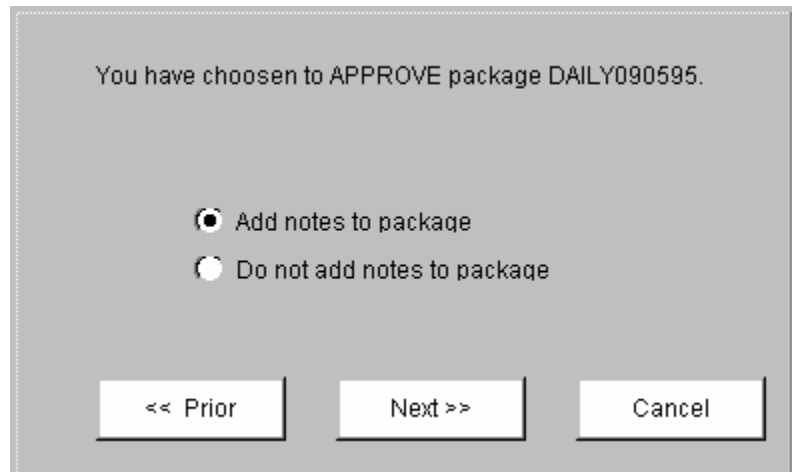
1. Select a package id
2. Left-click on the Approve button, to launch the package approval dialog box, shown below.
3. Choose whether or not to add notes to the package.
4. Submit the package for approval.

Select a package id

To activate the Approve button, select a package id from the package area by left-clicking on it.

Launch the approve dialog box

Left-click on the Approve button to launch the approve dialog box, shown below.



Approve dialog box Functionality

You have chosen ...

The dialog box will always remind you of which package you are in the process of approving.

Add Notes

You can choose to add notes to the package you are approving. This is the default. If you select this option and click Next, an Add Notes dialog box, discussed below, will appear.

Do not add notes

Selecting this option bypasses the add notes dialog box and takes you straight to the Submit panel, discussed below.

<<Prior

A left-click on this button will take you back to the BREEZE main interface.

Next>>

If you chose to add notes, a left-click on this button will take you to the add notes dialog box.

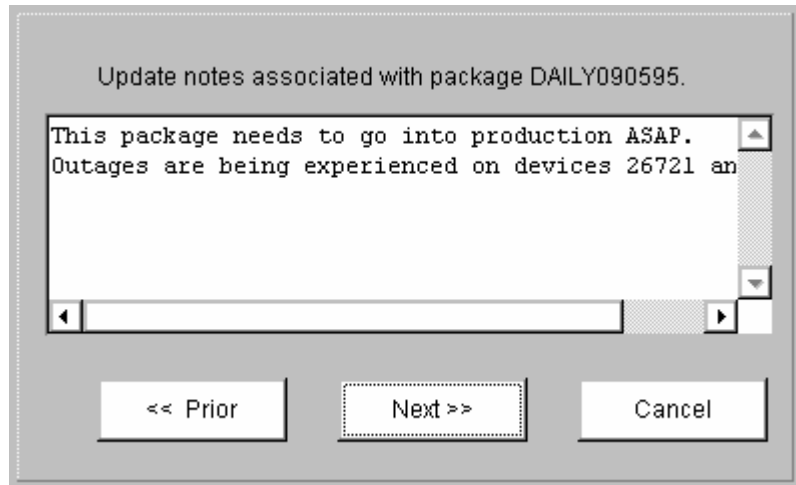
If you chose to not add notes, a left-click on this button will take you directly to the Submit panel.

Cancel

A left-click on this button will cancel the approval process and return you to the BREEZE main interface.

Adding Notes

As mentioned previously, the The Add Notes panel, shown below, is launched when you select the Add Notes option in the Approve dialog box and click Next.



Update notes associated with package DAILY090595.

This package needs to go into production ASAP.
Outages are being experienced on devices 26721 an

<< Prior Next >> Cancel

Add Notes panel functionality

Update Notes ...

The dialog box will always prompt you with the package id of the package to which you are adding notes.

Input field

This is a free-form input field, that supports hard returns. There is a limit of 480 characters.

<<Prior

A left-click on this button will take you back to the Approve dialog box.

Next>>

A left-click on this button will take you to the Submit panel, shown below.

Cancel

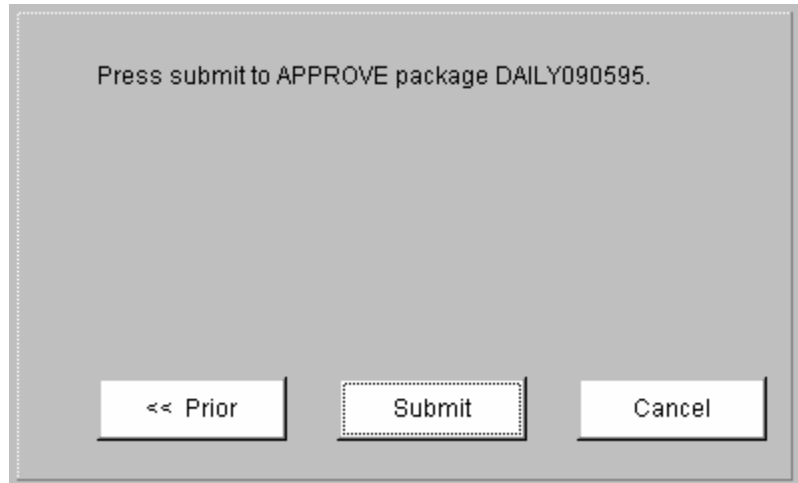
A left-click on this button will cancel the approval process and return you to the BREEZE main interface.

Submitting Approval

BREEZE displays the submit panel, shown below, when either

- a. You click on Next from the Add Notes panel, or

- b. You select the “Do not add Notes” option from the Approve dialog box and click Next.



Submit Panel Functionality

Press Submit...

The dialog box will always remind you of the package you are in the process of approving.

<<Prior

If you chose to add notes to the package, a left-click on this button will take you back to the Add Notes dialog box.

If you chose not to add notes to the package, a left-click on this button will take you back to the Approve dialog box.

Note that the <<Prior button acts much like an Escape key, in that it backs out of an action one layer at a time.

Submit

A left-click on this button will submit your vote of approval to the mainframe.

Cancel

A left-click on this button will cancel the entire approval process and return you to the BREEZE main interface.

Denying Packages

The process for denying packages in BREEZE is similar to the process of approving :

1. Select a package id
2. Left-click on the Deny button, to launch the Deny dialog box, shown below.
3. Choose whether or not to add notes to the package.

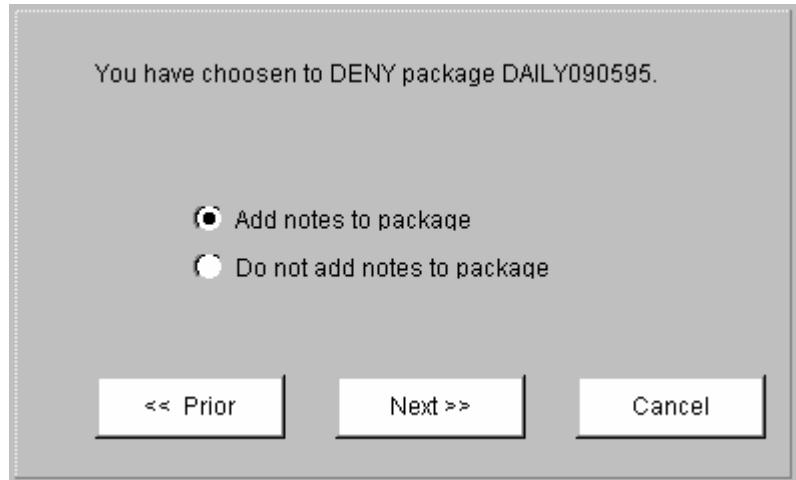
4. Submit your denial.

Select a package id

To activate the Deny button, select a package id from the package area by left-clicking on it.

Launch the deny dialog box

Left-click on the Deny button to launch the deny dialog box, shown below.



Deny dialog box Functionality

You have chosen ...

The dialog box will always prompt you with the package id of the package you are denying.

Add Notes

You can choose to add notes the package you are denying. This is the default. If you select this option and click Next, an Add Notes dialog box, discussed below, will appear.

Do not add notes

Selecting this option bypasses the add notes dialog box and takes you straight to the Submit panel, discussed below.

<<Prior

A left-click on this button will take you back to the BREEZE main interface.

Next>>

If you chose to add notes, a left-click on this button will take you to the add notes dialog box.

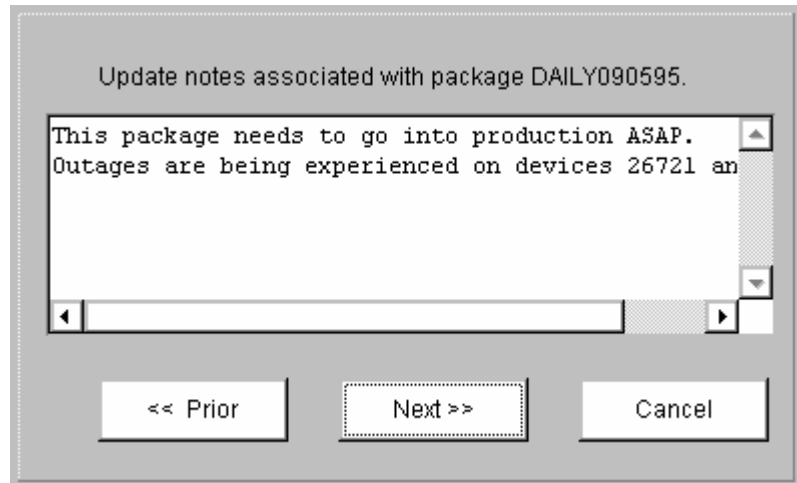
If you chose to not add notes, a left-click on this button will take you directly to the Submit panel.

Cancel

A left-click on this button will cancel the denial process and return you to the BREEZE main interface.

Adding Notes

As mentioned previously, the The Add Notes panel, shown below, is launched when you select the Add Notes option in the Deny dialog box and click next.



Update notes associated with package DAILY090595.

This package needs to go into production ASAP.
Outages are being experienced on devices 26721 an

<< Prior Next >> Cancel

Add Notes panel functionality

Update Notes ...

The dialog box will always prompt you with the package id of the package to which you are adding notes.

Input field

This is a free-form input field, that supports hard returns. There is a limit of 480 characters.

<<Prior

A left-click on this button will take you back to the Deny dialog box.

Next>>

A left-click on this button will take you to the Submit panel, shown below.

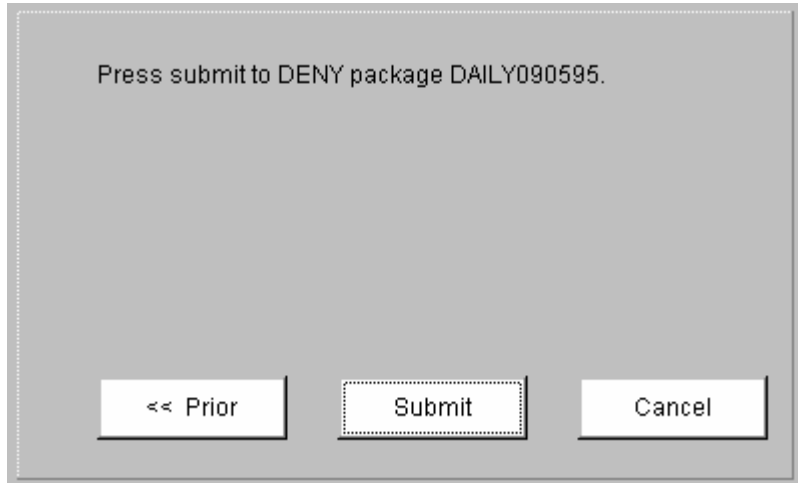
Cancel

A left-click on this button will cancel the denial process and return you to the BREEZE main interface.

Submitting Denial

BREEZE displays the submit panel, shown below, when either

- a. You click on Next from the Add Notes panel, or
- b. You select the “Do not add Notes” option from the Deny dialog box and click Next.



Submit panel functionality

Press Submit...

The dialog box will always remind you of the package you are in the process of denying.

<<Prior

If you chose to add notes to the package, a left-click on this button will take you back to the Add Notes dialog box.

If you chose not to add notes to the package, a left-click on this button will take you back to the Deny dialog box.

Note that the <<Prior button acts much like an Escape key, in that it backs out of an action one layer at a time.

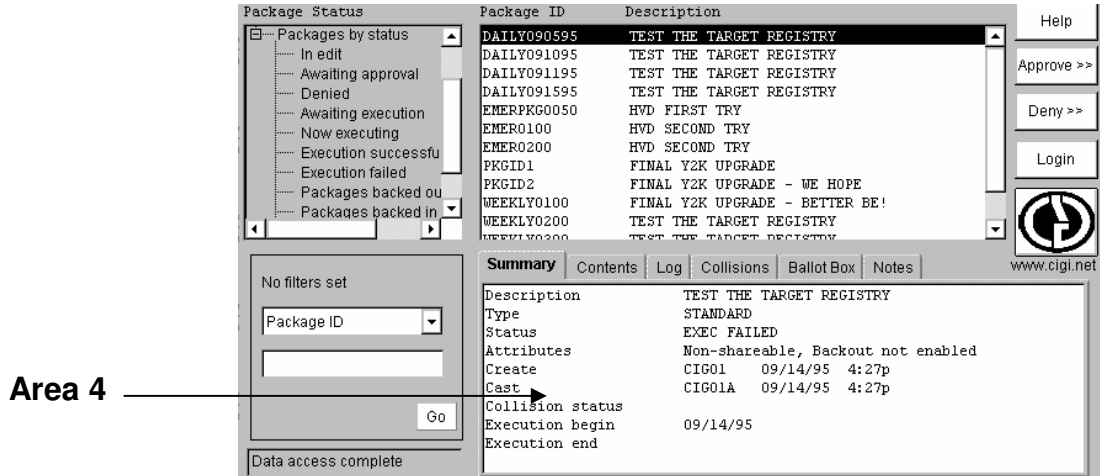
Submit

A left-click on this button will submit your vote of denial to the mainframe.

Cancel

A left-click on this button will cancel the entire denial process and return you to the BREEZE main interface.

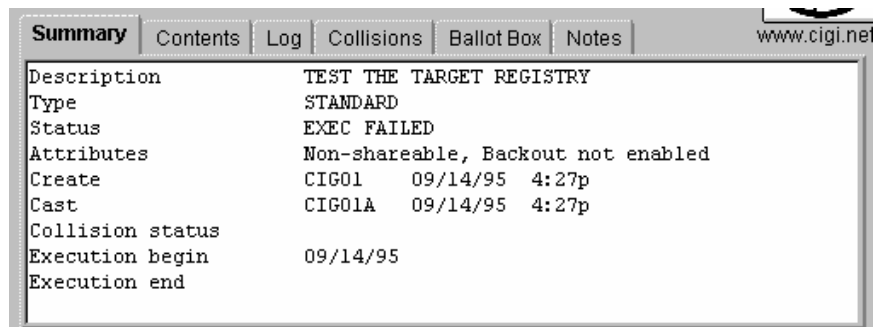
Area 4: Package Options Area



The tabbed Package Options area contains highly detailed package information, including contents, log, collision information, ballot box and package notes.

These tabbed areas become active when you select a package id in the Package Display area of the BREEZE interface.

Package Summary



The Package Summary tab contains the following package information:

Description The description given to the package when it was created

Type Indicates whether the package is a Standard or Emergency Package.

| | |
|-------------------------|--|
| Status | Indicates the Endeavor status of the package as either in-edit, in-approval, approved, denied, in-execution, executed, or committed. |
| Attributes | This contains information relative to the backout/backin options and whether or not the package is shareable. |
| Create | Indicates the Create User id |
| Cast | Indicates the Cast User id |
| Collision status | Indicates whether or not the current package is in collision with any other packages. |

Package Contents

| Action | source | target | ccid | comment | Environment | Stage |
|--------|--------|--------|--------|-----------------|-------------|--------|
| MOVE | Z33 | Z33 | R-TEST | BUILD DEMO DATA | ASM TEST | STAGE2 |
| MOVE | Z34 | Z34 | R-TEST | BUILD DEMO DATA | ASM PROD | STAGE1 |

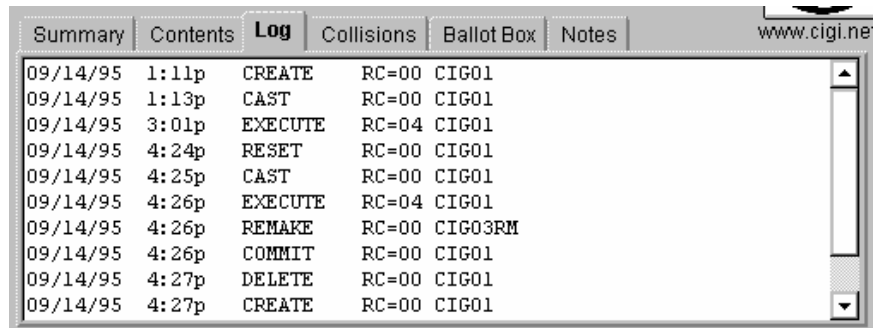
The Package Contents tab contains action and inventory information about the elements contained in the current package. For example, the above figure indicates that element Z33 was moved from the ASM test environment, stage 2, to the ASM Production environment, stage 1.

Additionally, element ccids and comments are also available from this tab.

Special Note for Packages in In-Edit Status:

The Contents data is not available to Breeze until after a package Cast has been performed.

Package Log

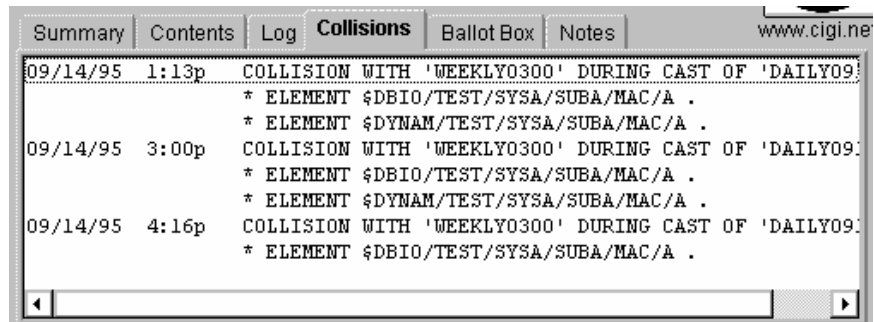


| Summary | Contents | Log | Collisions | Ballot Box | Notes |
|----------|----------|---------|------------|------------|-------|
| 09/14/95 | 1:11p | CREATE | RC=00 | CIG01 | |
| 09/14/95 | 1:13p | CAST | RC=00 | CIG01 | |
| 09/14/95 | 3:01p | EXECUTE | RC=04 | CIG01 | |
| 09/14/95 | 4:24p | RESET | RC=00 | CIG01 | |
| 09/14/95 | 4:25p | CAST | RC=00 | CIG01 | |
| 09/14/95 | 4:26p | EXECUTE | RC=04 | CIG01 | |
| 09/14/95 | 4:26p | REMAKE | RC=00 | CIG03RM | |
| 09/14/95 | 4:26p | COMMIT | RC=00 | CIG01 | |
| 09/14/95 | 4:27p | DELETE | RC=00 | CIG01 | |
| 09/14/95 | 4:27p | CREATE | RC=00 | CIG01 | |

The Package Log tab contains standard log information, including:

- the date and time of any package actions
- the user id of the user who performed those actions
- the return code on the action

Package Collisions



| Summary | Contents | Log | Collisions | Ballot Box | Notes |
|----------|----------|-----|---|------------|-------|
| 09/14/95 | 1:13p | | COLLISION WITH 'WEEKLY0300' DURING CAST OF 'DAILY091099' * ELEMENT \$DBIO/TEST/SYSA/SUBA/MAC/A . * ELEMENT \$DYNAM/TEST/SYSA/SUBA/MAC/A . | | |
| 09/14/95 | 3:00p | | COLLISION WITH 'WEEKLY0300' DURING CAST OF 'DAILY091099' * ELEMENT \$DBIO/TEST/SYSA/SUBA/MAC/A . * ELEMENT \$DYNAM/TEST/SYSA/SUBA/MAC/A . | | |
| 09/14/95 | 4:16p | | COLLISION WITH 'WEEKLY0300' DURING CAST OF 'DAILY091099' * ELEMENT \$DBIO/TEST/SYSA/SUBA/MAC/A . | | |

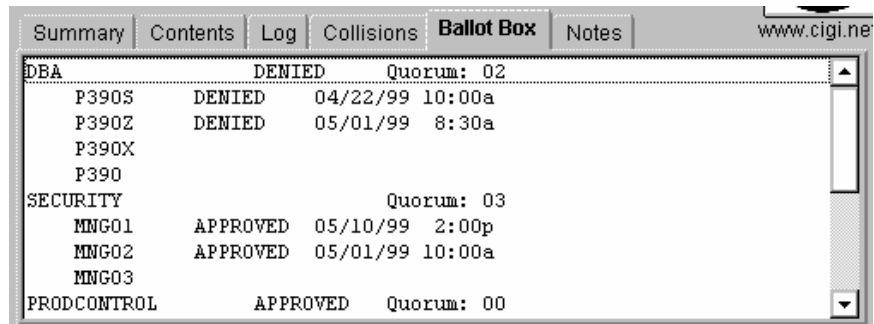
The Package Collisions tab contains highly detailed collision information about the current package. For example, from the figure above we can determine that Package DAILY091099 (the package id selected in the Package Display area) has repeatedly collided with WEEKLY 0300 during cast and which elements are causing the collision.

For additional information about how to utilize the Remake feature referenced in the Package Log screen and how to configure your collision handling options, please refer to the CIG Breeze - Package Utilities Host Side Reference Guide.

Special Note for Packages in In-Edit Status:

The Collision data may appear for packages in In-Edit status as this data is historical. So, if the package has been cast before and has had collisions, then there will be historic data displayed, even if it has been reset.

Ballot Box



The screenshot shows a web interface with a menu bar containing 'Summary', 'Contents', 'Log', 'Collisions', 'Ballot Box', and 'Notes'. The 'Ballot Box' tab is active. The main content area displays a list of packages with their status and quorum information. The packages are grouped into three categories: DBA, SECURITY, and PRODCONTROL.

| Package | Status | Time | Quorum |
|-------------|----------|-----------------|--------|
| DBA | DENIED | | 02 |
| P3905 | DENIED | 04/22/99 10:00a | |
| P3902 | DENIED | 05/01/99 8:30a | |
| P390X | | | |
| P390 | | | |
| SECURITY | | | 03 |
| MNG01 | APPROVED | 05/10/99 2:00p | |
| MNG02 | APPROVED | 05/01/99 10:00a | |
| MNG03 | | | |
| PRODCONTROL | APPROVED | | 00 |

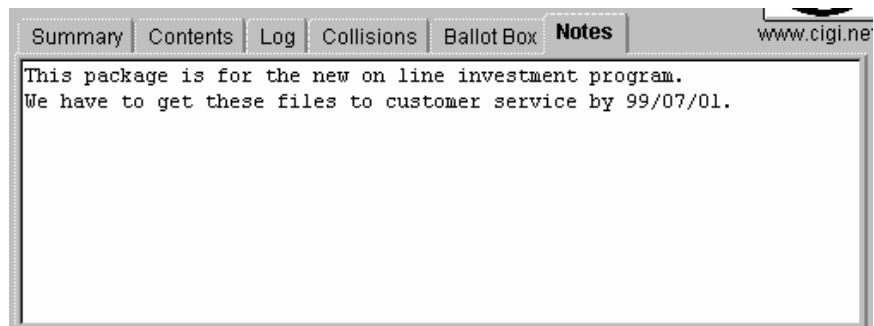
The Ballot Box is useful for determining at a glance:

- Which approver group is responsible for approving or denying the current package
- What users are in that particular approver group
- Who has voted
- How and when those approvers have voted
- Whether or not a quorum has been reached.

Special Note for Packages in In-Edit Status:

The Approver Group and Voting data is not available to Breeze until after a package Cast has been performed.

Package Notes



The screenshot shows a web interface with a menu bar containing 'Summary', 'Contents', 'Log', 'Collisions', 'Ballot Box', and 'Notes'. The 'Notes' tab is active. The main content area is a text box containing the following text:

```
This package is for the new on line investment program.  
We have to get these files to customer service by 99/07/01.
```

The Package Notes tab contains free-form notes that have been added to the package by members of the approver group during the approval process.

Special Note for Packages in In-Edit Status:

The Notes data is not available to Breeze until after a package Cast has been performed.

Chapter 4: Troubleshooting Browser Issues

Overview

The following pages provide detailed information relating to error situations you might encounter in utilizing the BREEZE product. These situations are presented in the order that you are likely to encounter them. Additionally, they are presented alphabetically in the index at the back of the chapter.

No response

Problem or informational message

In the process of launching the BREEZE product, you get no response from the server.

Corrective Measures

Check your HTML file to ensure that both the IP and the port address are correct. Note that the port address cannot have leading zeroes.

If you're running BREEZE on an Intranet:

Make sure that the CTS server is up and running on the mainframe.

If you're running BREEZE on the Internet:

Make sure that the CTS server is up and running on the mainframe. Additionally, you may want to check with your ISP; traffic on the line or a problem in routing to your mainframe IP address could also prevent the BREEZE applet from loading.

Class/Jar/Zip Not found or Class/Jar/Zip can't load

Problem or informational message

In the process of launching the BREEZE product, you get one of the following messages from the browser that the Class/Jar/Zip file can't be found or can't be loaded.

Corrective Measures

Likely there is an error in the html file related to the location of the BREEZE product on your mainframe.

Modify the HTML file to ensure that the jar name is correct and that both the IP and the port address are correct.

If using Netscape Navigator, verify that you have chosen to launch the correct version of BREEZE.

Not allowed to use applet or Security Error

Problem or informational message

The message "not allowed to use applet" appears in the status window of your browser, or you receive some other error related to security.

Corrective Measures

This is likely a firewall issue that will affect intranet users. Contact your systems or LAN administrator for assistance.

Log in fails

Problem or informational message

If your log in fails, it could be due to a number of factors:

Security error.

A failed log in could also mean that your user id and/or password combination is incorrect, or that your tso password has expired.

The IP and /or port address in the breeze.html file could be incorrect.

Corrective Measures

Re-launch the product and make sure you enter the correct mainframe user id and password.

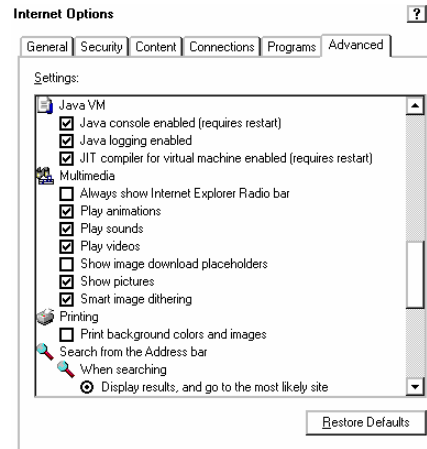
If log in still fails, see your systems administrator for help in validating your user id/password.

Modify the HTML file to ensure that both the IP and the port address are correct.

Java not enabled on browser or Virtual Machine not loaded

Problem or informational message

BREEZE is a java-based product, which requires that your browser be configured to read the java language and that the Virtual Machine (the equivalent of the Java runtime environment) be loaded. Netscape Navigator versions 4.5 and later are already java-enabled, so this error condition applies to Internet Explorer users only.



Corrective Measures

For IE users:

From the Explorer Tools menu, select Internet Options.

Select the Advanced tab. Topics presented here are in alphabetical order.

Scroll down until you see the options for Java VM, which stands for the Java Virtual Machine, that will read the BREEZE applet.

Select the first two boxes under this option

Restart your computer.

A sample IE screen with the Java options enabled is shown at left.

CIGINI Errors

Problem or informational message

CIGINI error.

If there is a problem with your CIGINI file in the mainframe component of BREEZE, you will encounter this message on your first query.

Dataset allocation error.

Corrective Measures

Check the CIGINI file for a valid product password.

Check your CIGINI parameters for vio

and work files.

JCL Errors

Problem or informational message

JCL setup error from the BREEZE mainframe component.

Corrective Measures

Three pieces of JCL are required for the BREEZE product:

CIGJCLSRV
CIGJCLPKG
CIGJCLPRT

Check to make sure that these have all been correctly modified.

Storage Errors

Problem or informational message

Any storage errors will originate from the mainframe component of the BREEZE product.

Corrective Measures

Check the region size allocated in the CIGINI, or check with your systems administrator.

TCP/IP errors

Problem or informational message

Any storage errors will originate from the mainframe component of the BREEZE product.

Corrective Measures

Check the region size allocated in the CIGINI, or check with your systems administrator.

IP address incorrect.

Check IP address in html file.

Assigned port incorrect.

Check port address in html file.

Email errors

Problem or informational message

Corrective Measures

SMTP server may not be set up correctly or might not be set up at all. Check with systems personnel to run email test program TSTEMAIL.

Incorrect email list in \$\$\$SMTP. Verify that email list exists.

Query errors

Problem or informational message

Request yields no results.

Corrective Measures

This is possibly a JCL error. Verify that required JCL members have been modified correctly.

This could also be a job-card error. Verify that job-card values are correct.

Data Display errors

Problem or informational message

Data displays incorrectly.

Data returned is not what you requested.

Corrective Measures

This is likely due to a set-up error. Verify that all steplib are pointing to the correct sets of files.

Appendix A: Diagnostic Tools

CIG TRACES

The following table outlines the CIG traces available to the user and to technical support. All of the traces are enabled via allocation of a ddname in batch or with the TSO ALLOCATE function.

If in Batch → //CIGLOG DD SYSOUT=*

If in TSO → TSO ALLOC FI(CIGLOG) DSN(*) SHR REUSE

| Trace | Purpose | Where invoked | How to allocate |
|----------|--|---|-----------------|
| CIGLOG | General log information | Available in exits and Admin utilities. | Batch or TSO |
| CIGVTRAX | Logical VSAM trace | Available in all functions that access the database: Exits, Admin Utilities, and the Server. | Batch or TSO |
| CIGZTRAX | Physical VSAM trace Lowest level | Available in all functions that access the database, Exits, Admin Utilities, and the Server. | Batch or TSO |
| CIGPTRAX | Parser Trace | Available in all functions that process CIG syntax directly or indirectly. Admin Utilities and the Server. | Batch or TSO |
| CIGCTRAX | Low level storage trace for tracing getmain/freemain activity. | Available in functions that use CIG low level stack management. Exit assembler programs, Admin Utilities, and the Server. | Batch or TSO |
| CIGFTP | Trace of Applet request and server response on a user level. | Available only in the Server. | Batch Only |
| CIGXLSTN | Trace of Server Listener Task Activity | Available only in the Server | Batch Only |
| CIGXSUBT | Trace of Server Sub Task Activity | Available only in the Server | Batch Only |

Note that any trace will affect performance. Use these traces for informational or debug purposes.

Appendix B: DSNNOTE

This appendix discusses how to route email output to a permanent file rather than having email sent directly to the SMTP writer. This capability was developed to allow customers who use SMTP Notes with Secured SMTP to send emails, but to post-process the created datasets through an alternate process.

DSNNOTE member

Activating the DSNNOTE facility occurs through the presence of the member DSNNOTE in the Breeze Control dataset. Without a DSNNOTE member, Breeze will send emails directly to the SMTP writer.

The DSNNOTE member consists of one line with the following format:

prefix.

For example:
BREEZE.EMAIL.

When Breeze sends email, permanent dataset names will be allocated based on the prefix specification in the DSNNOTE member. Allocated dataset names will be

prefix.Uuserid.Dyymmdd.Thhmmss

For example:
BREEZE.EMAIL.MIKETSO.D050810.T121517

Syntax rules:

1. The dataset containing the DSNNOTE member must be defined to the CIGINI file via the JAVASERVERCONTROL DSNAME and NOTIFY RULES DSNAME parameters.

2. Lines starting with an asterick will be skipped as will blank lines.
3. The dataset prefix must start in column 1.
4. The dataset prefix must be less than 20-bytes long.
5. The dataset prefix must end in a period.

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