

System Explorer for z/OS

Getting Started

Version 1.1

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 - serial numbers
 - related software (database, application, and communication) including type, version, and service pack or maintenance level
- sequence of events leading to the problem
- commands and options that you used
- messages received (and the time and date that you received them)
 - product error messages
 - messages from the operating system, such as `file system full`
 - messages from related software

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About This Book

This book contains information about the System Explorer for z/OS product and is intended for all users.

To use this book, you should be familiar with your client and host operating systems.

For example, you should know how to perform common actions in a window environment (such as choosing menu items and resizing windows).

How This Book Is Organized

This book is organized as follows:

Chapter/Appendix	Description
Chapter 1, "Features and Benefits"	introduces the System Explorer for z/OS product
Chapter 2, "Security"	explains how security is implemented in the System Explorer for z/OS product
Chapter 3, "Running System Explorer for z/OS"	explains how to run the System Explorer for z/OS product

Related Documentation

BMC Software products are supported by several types of documentation:

- online and printed books
- online Help
- release notes and other notices

In addition to this book and the Help, you can find useful information in the publications that are listed in the following table. As “Online and Printed Books” on page ix explains, these publications are available on request from BMC Software.

Document	Description
<i>Desktop Installation Assistant Getting Started</i>	provides information about using the Desktop Installation Assistant, including requirements The Desktop Installation Assistant is an installation wizard that is used to install and configure the Runtime Component System (RTCS) and RTCS-based products for OS/390 and z/OS.
<i>Runtime Component System Configuration and Administration Guide</i>	provides information about configuring an OS/390 or z/OS system for RTCS and configuring RTCS and RTCS-based products
<i>Runtime Component System Message Reference</i>	contains information about messages that are generated by RTCS The <i>Runtime Component System Message Reference</i> is a softcopy document only (.chm file). It is on the product installation CD.
<i>System Explorer for z/OS General Information</i>	<ul style="list-style-type: none">• discusses the business challenges that you face every day and how the System Explorer for z/OS product can help in overcoming these challenges• lists the features of the System Explorer for z/OS product• illustrates some of the functionality of the System Explorer for z/OS product
<i>System Explorer for z/OS Help</i>	contains detailed information about how to use the System Explorer for z/OS product You can access Help in the following ways: <ul style="list-style-type: none">• from the Help menu• by clicking a Help  icon• by pressing F1

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Conventions

This section provides examples of the conventions that are used in this book and explains how to read ISPF panel-flow diagrams and syntax statements.

General Conventions

This book uses the following general conventions:

Item	Example
information that you are instructed to type	Type SEARCH DB in the designated field.
specific (standard) keyboard key names	Press Enter .
GUI elements and menu sequences	Choose File => Open .
directories, file names, Web addresses, e-mail addresses	The BMC Software home page is at www.bmc.com .
code examples, syntax statements, system messages, screen text	//STEPLIB DD The table <i>tableName</i> is not available.
emphasized words, new terms	The instructions that you give to the software are called <i>commands</i> .
variables	In this message, the variable <i>fileName</i> represents the file that caused the error.

This book uses the following types of special text:

Note: Notes contain important information that you should consider.

Warning! Warnings alert you to situations that could cause problems, such as loss of data, if you do not follow instructions carefully.

Tip: Tips contain information that might improve product performance or that might make procedures easier to follow.

Syntax Statements

Syntax statements appear in Courier. The following example shows a sample syntax statement:

```
COMMAND KEYWORD1 [KEYWORD2|KEYWORD3] KEYWORD4={YES|NO}
      fileName...
```

The following table explains conventions for syntax statements and provides examples:

Item	Example
Items in italic type represent variables that you must replace with a name or value. If a variable is represented by two or more words, initial capitals distinguish the second and subsequent words.	<i>alias</i> <i>databaseDirectory</i>
Brackets indicate a group of options. You can choose at least one of the items in the group, but none of them is required. Do not type the brackets when you enter the option. A comma means that you can choose one or more of the listed options. You must use a comma to separate the options if you choose more than one option.	[<i>tableName, columnName, field</i>] [-full, -incremental, -level] (Unix)
Braces enclose a list of required items. You must enter at least one of the items. Do not type the braces when you enter the item.	{ <i>DBDName tableName</i> } {-a -c} (Unix)
A vertical bar means that you can choose only one of the listed items. In the example, you would choose either <i>commit</i> or <i>cancel</i> .	{commit cancel} {-commit -cancel} (Unix)
An ellipsis indicates that you can repeat the previous item or items as many times as necessary.	<i>columnName . . .</i>

Chapter 1 Features and Benefits

This chapter introduces the System Explorer for z/OS product.

Features of System Explorer for z/OS	1-2
Benefits of System Explorer for z/OS	1-3

Features of System Explorer for z/OS

The System Explorer for z/OS product is a graphical user interface (GUI) that provides the ease of the graphical environment for performing many of the functions of TSO, ISPF, SDSF and so on.

You can use System Explorer for z/OS to manage data sets and submit jobs through a GUI. Here are just a few of the features that come standard with System Explorer for z/OS:

- simplify the management of base z/OS and OS/390 components
- create, browse, and edit data sets by using the built-in editor or your editor of choice
- manage job submission and output from a familiar GUI
- view system topology
- display the SYSLOG

Benefits of System Explorer for z/OS

Whether you are familiar or unfamiliar with mainframes, the System Explorer for z/OS product has benefits for you.

Familiar With Mainframes?

If you are familiar with using a mainframe, System Explorer for z/OS offers fast point-and-click and filtering abilities. You can

- view partitioned data sets, sequential data sets, jobs, system resources, and so on, all at once in a single navigation tree
- create custom views to filter the information that is shown in a navigation tree (for example, all the data sets and jobs for a particular project)
- display information in multiple, resizable windows, side-by-side, all at once, and all from one session
- allocate a data set by using one dialog
- submit jobs with the click of a mouse button
- use your favorite desktop editor to edit data sets and members

Unfamiliar With Mainframes?

If your area of expertise is Unix or Microsoft Windows, or you are new to the mainframe, the System Explorer for z/OS product offers all of the functionality of the graphical environment that you know. You can

- view data sets in a tree structure in the same way that you view Unix and Windows file systems
- copy, move, and delete data sets with the click of the mouse
- view system resources without knowing their names or locations
- control jobs, including submission, with the click of a mouse button instead of typing commands
- access a mainframe system from your Windows Start Menu or a shortcut icon on your desktop

Chapter 2 Security

This chapter explains how security is implemented in the System Explorer for z/OS product.

Access Security	2-2
Data Set and System Resources Security	2-2
Job Security	2-3

Access Security

Access to the System Explorer for z/OS product is controlled by your existing external security manager (ESM).

When you sign on to System Explorer for z/OS, you are prompted for a user ID and password. This is your existing mainframe user ID and password.

If access to System Explorer for z/OS has been authorized, you are granted access to the product just like any z/OS product.

Data Set and System Resources Security

In the System Explorer for z/OS product, you can view and manage data sets and system resource information.

Your existing ESM controls your access to data sets and system resources. System Explorer for z/OS interacts with your ESM to use your existing ESM profiles.

If data sets and system resources are not being controlled by an ESM, you can view and manage all data sets and system resource information.

Job Security

In the System Explorer for z/OS product, you can view and control jobs and their related SYSIN, SYSOUT, and logs as follows:

1. If an existing ESM controls your access, System Explorer for z/OS uses your existing ESM profiles.
2. System Explorer for z/OS job-management rules (SE rules) can be established instead of or in addition to the ESM profiles. If SE rules are detected by System Explorer for z/OS, they are used. For information about SE rules, see “About SE Rules.”
3. If job SPOOL and SYSOUT are not controlled by an ESM or by SE rules, you can access all jobs.

About SE Rules

You can establish the SE rules instead of or in addition to your existing ESM profiles.

The SE rules control which jobs can be displayed in the System Explorer for z/OS product console. The SE rules affect all the information shown under  My Jobs on a navigation tree.

Perform the following tasks to implement SE rules:

Step	Action	See
1	Define the SE rules.	“Defining SE Rules” on page 2-4
2	Identify the SE rules to your ESM.	“Identifying SE Rules to Your ESM” on page 2-13
3	Load the SE rules.	“Loading SE Rules” on page 2-13

You can also refresh SE rules at any time (see “Refreshing SE Rules” on page 2-14).

Defining SE Rules

SE rules are defined in a data set member, which are then loaded into the Runtime Component System (RTCS) System Registry. You can define SE rules in the following ways:

- manually coding the SE rules in a data set member

See the following sections:

- “The RULE Statement” on page 2-5
- “RULE Statement Parameters” on page 2-5
- “Conventions for Coding the SE Rules” on page 2-8
- “How the SE Rules are Evaluated” on page 2-9

- using the supplied conversion utility to convert SDSF GROUP definitions to SE rules

See the following sections:

- “About the Conversion Utility” on page 2-11
- “Running the Utility” on page 2-12

Types of SE Rules and Rights

The following types of SE rules are available:

- Ownership grants the right to view a job, view SYSIN and SYSOUT for a job, and issue commands against a job.
- View grants the right to view a job and view SYSIN and SYSOUT for the job, but do *not* grant the right to issue commands against a job.

The RULE Statement

The format of the RULE statement is as follows:

```
ruleName  RULE STATUS(ENABLED|DISABLED),
           ORDER(n),
           OWNER_USERID[(ex)(idList)[]],
           OWNER_GROUPID[(ex)(idList)[]],
           OWNER_JOBNAME_PREFIX[(ex)(prefixList)[]],
           OWNER_ACCOUNT_NUMBER[(ex)(acctNumList)[]],
           VIEW_USERID[(ex)(idList)[]],
           VIEW_GROUPID[(ex)(idList)[]],
           VIEW_JOBNAME_PREFIX[(ex)(prefixList)[]],
           VIEW_ACCOUNT_NUMBER[(ex)(acctNumList)[]],
           VIEW_JOB_TYPE(jobTypeList),
           VIEW_SUBMIT_USERID[(ex)(idList)
```

Note: A bar (|) indicates to use *one* of the specified values.
Brackets ([]) indicate optional syntax.

RULE Statement Parameters

The following table explains the parameters in the RULE statement:. For additional information, see “Conventions for Coding the SE Rules” on page 2-8 and “Specifying Partial IDs” on page 2-8.

Table 2-1 **RULE Statement Parameters (Part 1 of 4)**

Parameter	Description	Valid Values
<i>ruleName</i>	name of the SE rule The name is used to create the entity name for interaction with your ESM (see “Defining SE Rules” on page 2-4). This parameter is required.	alphanumeric characters
STATUS	current status of the SE rule An SE rule can be enabled or disabled. If an SE rule is enabled, it is evaluated for access rights. If an SE rule is disabled, it is ignored. This parameter is required.	ENABLED DISABLED
ORDER	the order in which the SE rule is evaluated The SE rule with a value of 0 is evaluated first, a value of 1 is evaluated next, and so on. This parameter is required.	an integer

Table 2-1 RULE Statement Parameters (Part 2 of 4)

Parameter	Description	Valid Values
OWNER_USERID	<p>list of user IDs</p> <p>If an owner ID matches one of the specified user IDs, ownership rights are granted.</p> <p>Use the <i>ex</i> prefix to denote that the parameter is specifying exclusions. If an owner ID matches one of the specified user IDs, ownership rights are denied.</p>	<ul style="list-style-type: none"> • <i>userID</i>—a specific user ID • <i>userID*</i>—a partial user ID • *—any user ID • USERID—the current user's user ID • (USERID,<i>length</i>)—the current user's user ID minus the number of characters specified by <i>length</i>
OWNER_GROUPID	<p>list of group IDs</p> <p>If a group ID matches one of the specified group IDs, ownership rights are granted.</p> <p>Use the <i>ex</i> prefix to denote that the parameter is specifying exclusions. If a group ID matches one of the specified group IDs, ownership rights are denied.</p> <p>Note: This parameter requires additional processing of the JES job queue which can decrease response time.</p>	<ul style="list-style-type: none"> • <i>groupID</i>—a specific group ID • <i>groupID*</i>—a partial group ID • GROUPID—the current user's group ID
OWNER_JOBNAME_PREFIX	<p>list of job name prefixes</p> <p>If a job's name begins with any of the specified prefixes, ownership rights are granted.</p> <p>Use the <i>ex</i> prefix to denote that the parameter is specifying exclusions. If a job's name begins with any of the specified prefixes, ownership rights are denied.</p>	<ul style="list-style-type: none"> • <i>prefix</i>—alphanumeric characters • USERID—the current user's user ID is used as a prefix value • GROUPID—the current user's group ID is used as a prefix value • (USERID,<i>length</i>)—the current user's user ID minus the number of characters specified by <i>length</i>
OWNER_ACCOUNT_NUMBER	<p>list of account numbers</p> <p>If the account number from the JCL JOB statement matches a specified account number, ownership rights are granted.</p> <p>Use the <i>ex</i> prefix to denote that the parameter is specifying exclusions. If the account number from the JCL JOB statement matches a specified account number, ownership rights are denied.</p> <p>Note: This parameter requires additional processing of the JES job queue which can decrease response time.</p>	<p>an account number</p>

Table 2-1 RULE Statement Parameters (Part 3 of 4)

Parameter	Description	Valid Values
VIEW_USERID	<p>list of user IDs</p> <p>If an owner ID matches one of the specified user IDs, viewing rights are granted.</p> <p>Use the <i>ex</i> prefix to denote that the parameter is specifying exclusions. If an owner ID matches one of the specified user IDs, viewing rights are denied.</p>	<ul style="list-style-type: none"> • <i>userID</i>—a specific user ID • <i>userID*</i>—a partial user ID • *—any user ID • USERID—the current user's user ID • (USERID,<i>length</i>)—the current user's user ID minus the number of characters specified by <i>length</i>
VIEW_GROUPID	<p>list of group IDs</p> <p>If a group ID matches one of the specified group IDs, viewing rights are granted.</p> <p>Use the <i>ex</i> prefix to denote that the parameter is specifying exclusions. If a group ID matches one of the specified group IDs, viewing rights are denied.</p> <p>Note: This parameter requires additional processing of the JES job queue which can decrease response time.</p>	<ul style="list-style-type: none"> • <i>groupID</i>—a specific group ID • <i>groupID*</i>—a partial group ID • GROUPID—the current user's group ID
VIEW_JOBNAME_PREFIX	<p>list of job name prefixes</p> <p>If a job's name begins with any of the specified prefixes, viewing rights are granted.</p> <p>Use the <i>ex</i> prefix to denote that the parameter is specifying exclusions. If a job's name begins with any of the specified prefixes, viewing rights are denied.</p>	<ul style="list-style-type: none"> • <i>prefix</i>—alphanumeric characters • USERID—the current user's user ID is used as a prefix value • GROUPID—the current user's group ID is used as a prefix value • (USERID,<i>length</i>)—the current user's user ID minus the number of characters specified by <i>length</i>
VIEW_ACCOUNT_NUMBER	<p>list of account numbers</p> <p>If the account number from the JCL JOB statement matches a specified account number, viewing rights are granted.</p> <p>Use the <i>ex</i> prefix to denote that the parameter is specifying exclusions. If the account number from the JCL JOB statement matches a specified account number, viewing rights are denied.</p> <p>Note: This parameter requires additional processing of the JES job queue, which can decrease response time.</p>	a valid account number

Table 2-1 RULE Statement Parameters (Part 4 of 4)

Parameter	Description	Valid Values
VIEW_JOB_TYPE	list of job types If a job's type matches a specified job type, viewing rights are granted. This parameter is evaluated in conjunction with any of the other specified VIEW-type parameters. That is, it is ANDed to each of the other VIEW-type parameters in the SE rule.	<ul style="list-style-type: none"> • STC—job is a started task • TSU—job is a user • BATCH—job is a batch job • ALL—STC, TSU, or BATCH
VIEW_SUBMIT_USERID	list of user IDs If the user ID that submitted the job matches one of the specified user IDs, viewing rights are granted. Use the <i>ex</i> prefix to denote that the parameter is specifying exclusions. If the user ID that submitted the job matches one of the specified user IDs, viewing rights are denied. Note: This parameter requires additional processing of the JES job queue which can decrease response time.	<ul style="list-style-type: none"> • <i>userID</i>—a specific user ID • <i>userID*</i>—a partial user ID • *—any user ID • USERID—the current user's user ID • (USERID,<i>length</i>)—the current user's user ID minus the number of characters specified by <i>length</i>

Conventions for Coding the SE Rules

Use the following conventions when coding the RULE statements:

- Define as many SE rules as you need.
- Include the STATUS and ORDER parameters, which are required.
- Include one or more OWNER or VIEW parameters in each statement.
- Include one or more value for each parameter.
- Separate each parameter with a comma.
- Enclose the parameter values in parentheses.
- Separate the values of each parameter with a comma.

Specifying Partial IDs

- If you specify a partial user ID, that much of a user's user ID must match the parameter's value to grant or deny rights. For example, if you specify (PAY*), user IDs of PAY, PAYONE, and PAYS all match.
- If you specify (USERID,*length*), only that much of the user's ID is used to evaluate the statement. For example, if you specify (USERID,4) and the user's user ID is PAYROLL, only PAYR is used during the evaluation.

How the SE Rules are Evaluated

If SE rules are being used, they are evaluated using the following criteria to display information on the console:

- If no SE rules are defined, all users are granted ownership rights to all jobs.
- If SE rules are defined and no SE rule applies to a user, the user is denied any rights to all jobs.
- If only exclusions are specified, a user is granted ownership rights to all jobs that are not specifically excluded.
- SE rules are evaluated in the order specified by the ORDER parameter. A value of 0 is evaluated first, a value of 1 is evaluated next, and so on.
- The first SE rule to which you have READ access is evaluated to establish your ownership and viewing rights.

If you do not have READ access to any SE rule, access is denied.

Tip: Because of this first-met, first-used order, BMC Software recommends ordering the SE rules from the most restrictive to the least restrictive.

- Within each statement, the parameters are evaluated in the following order:
 1. OWNER-type parameters that specify exclusions
 2. other OWNER-type parameters
 3. VIEW-type parameters that specify exclusions
 4. other VIEW-type parameters
- The first parameter within a statement to be evaluated as true is used (with the exception of the VIEW_JOB_TYPE parameter for which all the parameters are evaluated).
- The VIEW_JOB_TYPE parameter further limits the evaluation of the other VIEW-type parameters. That is, the parameter is ANDed to each of the other VIEW-type parameters during the evaluation.

Examples

The following examples demonstrate the RULE statement. In each case, READ permission to the SE rule has been granted by the ESM.

- The following SE rule grants ownership rights to all users for all jobs. The SE rule is enabled and it is evaluated first.

```
ALLJOBS RULE STATUS(ENABLED), ORDER(0),  
OWNER_USERID(*)
```

- The following SE rule grants ownership rights to users for their own jobs and restricts them from viewing jobs that begin with *PAY*. The SE rule is enabled and it is evaluated third.

```
PAYJOBS RULE STATUS(ENABLED), ORDER(2),  
OWNER_USERID(USERID), VIEW_JOBNAME_PREFIX(EX(PAY))
```

- The following SE rule grants ownership rights to users for their own jobs and viewing rights to users for jobs in the groups to which they belong. The SE rule is enabled, and it is evaluated second.

```
MYJOBS RULE STATUS(ENABLED), ORDER(1),  
OWNER_USERID(USERID), VIEW_GROUP(GROUPID)
```

- The following SE rule grants ownership rights to users for all jobs except jobs that are submitted with the account code of 9999. The SE rule is enabled, and it is evaluated fifth.

```
NOPAYRLL RULE STATUS(ENABLED), ORDER(4),  
OWNER_USERID(*), OWNER_ACCOUNT_NUMBER(EX(9999))
```

About the Conversion Utility

The conversion utility uses *some* of the parameters in your existing ISFPARMS GROUP statements and creates ownership and view SE rules for use by System Explorer for z/OS. Not all ISFPARMS GROUP parameters are applicable to System Explorer for z/OS. The conversion utility ignores the nonapplicable parameters.

The following table lists the ISFPARMS GROUP parameters that the utility converts to RULE statement parameters. If an ISFPARMS GROUP parameter is not listed in this table, it is not converted.

ISFPARMS GROUP Parameter	Equivalent RULE Statement Parameter
NAME(<i>name</i>)	<i>ruleName</i> Note: If a NAME parameter is not used, a <i>ruleName</i> is generated.
CMDAUTH(ALL) CMDLEV (level 0 and 1)	VIEW_JOB_TYPE(ALL)
CMDAUTH(ALL) CMDLEV (level 2 or higher)	OWNER_USERID(*)
CMDAUTH(DISPLAY)	VIEW_JOB_TYPE(ALL)
CMDAUTH(USERID)	OWNER_USERID(USERID)
DADFLT	VIEW_JOB_TYPE (ALL)
DSPAUTH(ALL)	VIEW_USERID(*)
DSPAUTH(GROUP)	VIEW_JOBNAME_PREFIX(GROUPID)
DSPAUTH(USERID)	VIEW_JOBNAME_PREFIX(USERID)
ICMD(<i>jobName</i>)	OWNER_JOBNAME_PREFIX(<i>prefix</i>)
IDSP(<i>jobName</i>)	VIEW_JOBNAME_PREFIX(<i>prefix</i>)
OWNER(USERID)	VIEW_USERID(USERID)
PREFIX(USERID)	VIEW_JOBNAME_PREFIX(USERID)
PREFIX(GROUP)	VIEW_JOBNAME_PREFIX(GROUPID)
XCMD	OWNER_JOBNAME_PREFIX(EX(<i>prefix</i>))
XDSP	VIEW_JOBNAME_PREFIX(EX(<i>prefix</i>))
XDSPD	VIEW_JOBNAME_PREFIX(EX(<i>prefix</i>))
XSTATUS	VIEW_JOBNAME_PREFIX(EX(<i>prefix</i>))

Running the Utility

Perform the following steps to run the conversion utility:

Step 1 Create a data set member containing the following JCL:

```
//CNVTRULE EXEC PGM=OSZEEXEC8 ,  
//  PARM='P=ZSE9RULC ,C=BMCPROD' ,REGION=0M  
//*  
//ISFPARM DD DISP=SHR,DSN=SDSF.PROD.PARMS ( ISFPARM )  
//ZSERULE DD DISP=SHR,DSN=ZSE.PROD.RULES ( RULES )  
//SYSPRINT DD SYSOUT=*
```

Step 2 Replace the data set name in the ISFPARM DD statement with the name of the data set that contains your ISFPARMS.

Step 3 Replace the data set name in the ZSERULE DD statement with the name of your data set and an applicable member name to contain the SE rules.

The data set is used as input to load the SE rules to the RTCS System Registry.

Step 4 Run the CNVTRULE job.

Step 5 Make any necessary changes to the created RULE statements in the member you specified in the ZSERULE DD statement and save the member.

Identifying SE Rules to Your ESM

Each SE rule that you define is identified as a resource to interact with your ESM.

Setting Permissions

Use the following information to set permissions for an SE rule in your ESM:

- The SAF resource class used for the SE rules is *FACILITY*.
- The entity name for an SE rule is *ZSE.RULE.ruleName*.
- To grant access to the SE rules, grant *READ* access to the resource name.

Loading SE Rules

When you define or modify SE rules, you must load them into the RTCS System Registry to make them available to the System Explorer for z/OS product. The next time the System Explorer for z/OS server is started, it reads the SE rules from the RTCS System Registry (see also “Refreshing SE Rules” on page 2-14).

Perform the following steps to load the SE rules:

Step 1 Create a data set member containing the following JCL:

```
//UPDRULE EXEC PGM=OSZEXEC4,
//   PARM='P=ZSE9RULU,C=BMCPROD',REGION=0M
//*
//ZSERULE DD DISP=SHR,DSN=ZSE.PROD.RULES(RULES)
//SYSPRINT DD SYSOUT=*
//SYSTEM DD SYSOUT=*
//STDOUT DD SYSOUT=*
//STDERR DD SYSOUT=*
```

Step 2 Replace the data set name in the ZSERULE DD statement with the name of your data set and an applicable member name to contain the SE rules.

Step 3 Run the UPDRULE job.

The SE rules are now loaded into the RTCS System Registry.

Refreshing SE Rules

If you make changes or additions to your SE rules, they do not normally take effect until the System Explorer for z/OS server is restarted. You can, however, manually refresh the SE rules into the System Explorer for z/OS server without restarting the server.

Perform the following steps to manually refresh the SE rules:

- Step 1** Modify the data set member that contains your SE rules.
- Step 2** Add the REFRESH to the parameters in the JCL you created to load the SE rules:

```
//UPDRULE EXEC PGM=OSZEXEC4 ,  
//      PARM= 'P=ZSE9RULU , C=BMCPROD , REFRESH' , REGION=0M  
// *  
//ZSERULE DD DISP=SHR , DSN=ZSE . PROD . RULES ( RULES )  
//SYSPRINT DD SYSOUT= *  
//SYSTEM DD SYSOUT= *  
//STDOUT DD SYSOUT= *  
//STDERR DD SYSOUT= *
```

- Step 3** Run the UPDRULE job.

The SE rules are reloaded into the RTCS System Registry.

Chapter 3 Running System Explorer for z/OS

This chapter explains how to run the System Explorer for z/OS product.

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System Explorer for z/OS Components

The System Explorer for z/OS product consists of the following components:

- a server, which runs on your mainframe
- a client, which runs the System Explorer for z/OS console on your desktop computer

Running the Server

This section explains how to install, start, and stop the System Explorer for z/OS server.

Installing the Server

The System Explorer for z/OS server is installed and configured when the Runtime Component System (RTCS) is installed and configured. For information about installation and configuration, see the *Desktop Installation Assistant Getting Started* booklet and the documentation on the product CD.

Starting the Server

Note: Before starting the server, RTCS must be running. (For additional information see the *Runtime Component System Configuration and Administration Guide*.)

During the configuration process, you are given the exact command to use to start the server. The command is executed at a z/OS or OS/390 command prompt. The command takes the following forms:

```
F ssid,START,ZSE
F ssid,START,ZSE,J=cscb
```

Variable	Meaning
<i>ssid</i>	the subsystem ID that you assigned to RTCS (usually this will be <i>RTCS</i>)
<i>cscb</i>	the CSCB (command scheduling control block) name prefix to be used If you do not specify this value, <i>ZSE</i> is used.

Stopping the Server

To stop the System Explorer for z/OS server, execute one of the following commands at a z/OS or OS/390 command prompt:

If You Started the Server Using This Command	Use This Command to Stop the Server
F <i>ssid</i> ,START,ZSE	P ZSE
F <i>ssid</i> ,START,ZSE,J= <i>cscb</i>	P <i>cscb</i>

Installing the Client Files

This section explains how to install and uninstall the System Explorer for z/OS client files.

Requirements

The following software and hardware is required on your desktop computer to install the client files and run the System Explorer for z/OS console:

- Microsoft Windows 95 or later (with administrator privileges)
- Java Runtime Environment (JRE) 1.3.1_05 (if needed, it is installed during the installation process)
- a TCP/IP network connection to your z/OS or OS/390 systems
- a Web browser
 - Internet Explorer 5.0 or later
 - Netscape 4.0 or later
- 15 MB of free space on the hard drive on which you are going to install System Explorer for z/OS and the JRE
- 128 MB RAM (256 MB recommended)

Installing the Client Files

Perform the following steps to install the System Explorer for z/OS client files:

- Step 1** Open a Web browser.
- Step 2** Type the following address in your browser's address or location field and press **Enter**:

```
http://systemName:port/zse/index.html
```

The *systemName* variable is the DNS server name or IP address of the host mainframe server. The *port* variable was specified during the MVS image configuration. If you do not have this information, contact your system administrator. If you have multiple *systemName* and *port* pairs, use any one of the pairs. To add additional systems, see "Adding Additional Systems" on page 3-6.

The installation applet dialog box is displayed.

If you do not have a JRE installed or the JRE is version 1.3.1 or later, the browser prompts you to install version 1.3.1_05 of the JRE. This version of the JRE is shipped with System Explorer for z/OS. If you have a different JRE installed, version 1.3.1_05 is installed in addition to your existing version.

- Step 3** (*optional*) To install the JRE, perform the following steps:

- 3.A** Click the *Click here for Java 1.3.1_05 Plug-in* link.

You are prompted to download the install file or to run it from its current location.

- 3.B** Select either option and click **OK**.

3.C If you downloaded the file, execute the file to start the JRE installation. Otherwise, the installation starts from its current location.

Warning! During the installation, the JRE installation program gives you the opportunity to specify that you want the JRE to become the default Java engine. Some products do not work properly with the Sun Java applet plug-in.

To disable the JRE as the default Java engine, perform one of the following tasks:

- During the installation, clear the default Java engine check boxes.
- After the installation, open Internet Explorer, choose **Tools => Internet Options**, click the Advanced tab, scroll down to the Sun Java section, and clear the check boxes.

3.D When the JRE installation is complete, click the specified link.

The installation applet dialog box is displayed.

Step 4 Click **Install Local Client**.

The Client Install Wizard is displayed. You can close the installation applet dialog box.

Note: If the Java Plug-in Security Warning dialog box is displayed and you trust the Java Plug-in, click **Grant always**.

Step 5 Follow the instructions in the wizard until you come to the Install Complete page. To install the client in a directory other than the directory that is displayed, perform the following steps:

5.A Click **Browse** and navigate to an existing directory under which you want to install the client.

5.B Click the **Create New Folder**  icon.

5.C Right-click the new folder, specify a new name, and press **Enter**.

5.D Double-click the new folder and click **Open**.

Several files are installed on your desktop computer and registry entries are made.

- Step 6** On the Install Complete page, choose whether to launch the console immediately:
- To complete the installation and launch the console immediately, select **Launch System Explorer for z/OS** and click **Finish**.
 - To complete the installation without launching the console, clear **Launch System Explorer for z/OS** and click **Finish**.

Adding Additional Systems

To access different systems, you must run the console with different system names and port numbers. To accomplish this task, you must add additional systems to the System Explorer for z/OS Start Menu.

Perform the following steps to add each additional system to the Start Menu:

- Step 1** On your computer, right-click **Start** and choose **Explore**.

The file explorer opens to the location of your program list for the Start Programs menu. For example, on Windows 2000, this location is **C:\WINDOWS\Start Menu**.

- Step 2** If not already in the Programs directory, open the Programs directory.

- Step 3** Navigate to a shortcut for a System Explorer for z/OS console under System Advisor (for example, **System Explorer on sjse**).

- Step 4** Copy the shortcut, paste it into the same directory, and rename it.

- Step 5** Right-click the renamed shortcut and choose **Properties**.

The Properties dialog box is displayed.

- Step 6** Click the **Shortcut** tab.

- Step 7** In the **Target** field, change the server parameter to the new system name and port number that you want.

- Step 8** Click **OK**.

The new shortcut is added to the System Explorer for z/OS Start Menu.

Updating the Client Files

Each time you run System Explorer for z/OS, the client files are checked against what is stored with the System Explorer for z/OS server to ensure that they are current.

If the client files are current, the client starts.

If the client files are not current, the installation update wizard is automatically started to install the new files. Click the specified button and the update starts. When the update is completed, the logon dialog box is displayed (for more information, see “Running the Console” on page 3-8). You can now close the installation update wizard.

Reinstalling the Client Files

To reinstall the client files, simply uninstall the client files and then install them again.

For uninstallation information, see “Uninstalling Client Files” on page 3-7.

For installation information, see “Installing the Client Files” on page 3-4.

Uninstalling Client Files

To uninstall the System Explorer for z/OS client files, click **Start** and choose **Programs => System Advisor => Uninstall**.

The System Explorer for z/OS product is removed from your computer, including the registry entries.

If you had added additional systems (see “Adding Additional Systems” on page 3-6), the directories for the additional systems and the product directory are not removed during the uninstall. You must delete them manually.

Starting the Console

This section explains how to run the System Explorer for z/OS console and how to change your mainframe password by using System Explorer for z/OS.

Running the Console

Perform the following steps to run the System Explorer for z/OS console:

Step 1 Verify that the RTCS and the System Explorer for z/OS servers are running.

Step 2 On your desktop computer, choose **Start => Programs => System Advisor => System Explorer on *systemName***.

The logon dialog box is displayed.

Note: Each time you run System Explorer for z/OS, the client files are checked to ensure that they are current. If the client files are current, the client starts. If they are not current, the installation wizard is automatically started to install the new files. For installation information, see “Installing the Client Files” on page 3-4.

Step 3 Enter the following information and click **OK**:

Field	What to Enter
User ID	your mainframe user ID
Password	your mainframe password
GROUP Ident	<i>(optional)</i> your group name

Step 4 The System Explorer for z/OS console opens.

The following files are created on your computer:

- **application_system.properties**

This file is created in the directory in which the client files were installed. It contains console control information (such as the console size and location on your desktop) and the user ID of the last person to log on by using your computer.

- **userID.ini**

This file is created in the Windows Profile directory. It contains preferences settings, column sort order, column position, column sizes, and the filter information for the default and custom views.

Step 5 After starting the console, use any of the following methods to open the online documentation:

- from the **Help** menu
- by clicking a **Help** icon 
- by pressing **F1**

The online documentation provides detailed information about the product.

Changing Your Password

When you run System Explorer for z/OS, you can change your mainframe password on the logon dialog box.

Perform the following steps to change your password:

Step 1 Run the System Explorer for z/OS console.

The logon dialog box is displayed.

Step 2 In the **User ID** field, type your user ID.

Step 3 In the **Password** field, type your existing password.

Step 4 In the **New Password** field, type a new password.

Step 5 Click **OK**.

Your password is changed, and the console opens.

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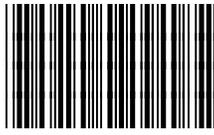
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