Host Configuration Utility Guide
Note

Before using this information, be sure to read the general information under “Notices” on page 13.

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This edition applies to all releases of IBM Explorer for z/OS until otherwise indicated in new editions.

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Figures

1. Configuration flow . . . . . . . . . . 5  
2. FEKINIT startup parameters . . . . . . . . . 6  
3. Panel structure . . . . . . . . . . . . 11
Tables

1. Product data sets ......... 1
2. User-specific data sets ....... 2
Host Configuration Utility Guide

This document discusses the use of the Host Configuration Utility which is part of IBM® Explorer for z/OS® (z/OS Explorer). The Host Configuration Utility is an ISPF panel application that guides you through basic customization steps for z/OS Explorer. The application also allows you to execute Installation Verification Procedures (IVPs) and collect debug information. For complete details on the configuration of this product, refer to IBM Explorer for z/OS Host Configuration Guide (SC27-8437).

From here on, the following names are used in this manual:
- IBM Explorer for z/OS is called z/OS Explorer.
- z/OS UNIX System Services is called z/OS UNIX.
- Remote System Explorer is called RSE.

This document is part of a set of documents that describe z/OS Explorer host configuration. Each of these documents has specific target audience. You do not have to read all documents to complete the z/OS Explorer configuration.
- IBM Explorer for z/OS Host Configuration Guide (SC27-8437) describes in detail all planning tasks, configuration tasks, and options (including optional ones) and provides alternative scenarios.
- IBM Explorer for z/OS Host Configuration Reference Guide (SC27-8438) describes z/OS Explorer design and gives background information for various configuration tasks of IBM Explorer for z/OS, and z/OS components related to z/OS Explorer.
- IBM Explorer for z/OS Host Configuration Quick Start Guide (GI13-4313) describes a minimal setup of z/OS Explorer.
- IBM Explorer for z/OS Host Configuration Utility Guide (SC27-8436) describes the Host Configuration Utility, an ISPF panel application that guides you through basic and common optional customization steps for z/OS Explorer.

This document is maintained between product releases. The new changes, and smaller corrections and additions, are indicated by a "|" change bar in the left margin of the page.

For the most up-to-date versions of the complete documentation, including installation instructions, white papers, podcasts, and tutorials, see the IBM Explorer for z/OS library page.

Who should read this document

This document is intended for system programmers who are going to configure z/OS Explorer.

This document describes the different steps needed to do a setup using the Host Configuration Utility. Refer to Host Configuration Guide (SC27-8437) for complete details on the configuration of this product and non-default settings.

To use this guide, you need to be familiar with ISPF. Some z/OS UNIX experience is useful for a better understanding of certain aspects, but it is not required.
Chapter 1. Introduction

The z/OS Explorer Host Configuration Utility is a utility created to assist customers with z/OS Explorer host installation customization, installation verification and debug reporting. The Host Configuration Utility is referred to as the "utility" within this document.

The utility is designed to manage multiple configurations of a single z/OS Explorer service level, hence providing configurations for test and production implementations of the product.

The utility is intended to ease the complexity of installation and customization of required tasks and selected common optional tasks. This is paired with a detailed logged customization workflow that can be interrupted and restarted at will.

Multiple users can use the same set of configuration files (but not simultaneously). This allows one person to create a configuration, and someone else with proper authority can execute specific steps of the configuration.

Note: The Host Configuration Guide (SC27-8437) describes the host configuration using the FEKSETUP job. The FEKSETUP job and the utility do some of the same tasks, with no way of checking to see if those tasks have already been performed. Therefore it is possible to undo changes that have already been made. For this reason, you should not use both methods for a single installation.

Components

The utility consists of a series of partitioned data sets that can be divided into two groups, common product data sets and user-specific data sets created by the utility. There are also a few members added to the user’s ISPF profile data set.

Product data sets

The product data sets listed in Table 1 contain REXX execs, ISPF panels, message files, and control files. These data sets should be available in read-only mode to all users of the utility.

<table>
<thead>
<tr>
<th>Data set name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEK.SFEKEXEC</td>
<td>REXX execs to run the utility</td>
</tr>
<tr>
<td>FEK.SFEKINPT</td>
<td>Control files</td>
</tr>
<tr>
<td>FEK.SFEKMSGS</td>
<td>ISPF message files</td>
</tr>
<tr>
<td>FEK.SFEKANL</td>
<td>ISPF panels</td>
</tr>
<tr>
<td>FEK.SFEKSKEL</td>
<td>Skeleton members tailored by the utility</td>
</tr>
<tr>
<td>FEK.SFEKTABL</td>
<td>ISPF PF-key tables</td>
</tr>
</tbody>
</table>

User-specific data sets

The number of user-specific data sets created by the utility varies, because it depends heavily on the type of actions done by the user, and the number of configurations that are created. Each configuration is identified by a 4-digit number...
The data set names all start with a user-specified high-level qualifier, followed by a product-determined low-level qualifier (which can be one or two qualifiers long).

**Table 2. User-specific data sets**

<table>
<thead>
<tr>
<th>Data set name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>hlq.$ISPFILE</td>
<td>Temporary data set which is deleted during the termination procedure.</td>
</tr>
<tr>
<td>hlq.FEKLOG</td>
<td>Contains a log file for each version of the commands/JCL create by the utility. The member name is FEKnnnn.</td>
</tr>
<tr>
<td>hlq.FEKTABLE</td>
<td>Contains the profile table.</td>
</tr>
<tr>
<td>hlq.FEKnnnn.ASM</td>
<td>Contains sample assembler code for configuration nnnn. This data set matches the FEK.#CUST.ASM data set referenced in the Host Configuration Guide (SC27-8437).</td>
</tr>
<tr>
<td>hlq.FEKnnnn.CMD</td>
<td>Contains generated command files for configuration nnnn.</td>
</tr>
<tr>
<td>hlq.FEKnnnn.CNTL</td>
<td>Contains generated command files for configuration nnnn. This data set matches the FEK.#CUST.CNTL data set referenced in the Host Configuration Guide (SC27-8437).</td>
</tr>
<tr>
<td>hlq.FEKnnnn.JCL</td>
<td>Contains generated command files for configuration nnnn. This data set matches the FEK.#CUST.JCL data set referenced in the Host Configuration Guide (SC27-8437).</td>
</tr>
<tr>
<td>hlq.FEKnnnn.PARMLIB</td>
<td>Contains generated parmlib updates for configuration nnnn. This data set also matches the FEK.#CUST.PARMLIB data set referenced in the Host Configuration Guide (SC27-8437).</td>
</tr>
<tr>
<td>hlq.FEKnnnn.PROCLIB</td>
<td>Contains generated proclib updates for configuration nnnn. This data set matches the FEK.#CUST.PROCLIB data set referenced in the Host Configuration Guide (SC27-8437).</td>
</tr>
<tr>
<td>hlq.FEKnnnn.IVP</td>
<td>Contains generated IVP output for configuration nnnn.</td>
</tr>
<tr>
<td>hlq.FEKnnnn.DEBUG</td>
<td>This is a sequential data set that will contain the debug report file when run for version nnnn.</td>
</tr>
</tbody>
</table>

**ISPF profile data set**

FEK* members with user-specific preferences are added to the user’s ISPF profile data set (DD ISPPROF in TSO) during execution of the utility.

**Requirements**

The system requirements must match the requisites of the IBM Explorer for z/OS release it is part of. For a complete listing of the z/OS Explorer hardware and software requirements including prerequisites and co-requisites, generate reports from [Software Product Compatibility Reports](#).

The user ID running this utility must have (at least) the following attributes:

- TSO access with minimum region size of 128 M (specify logon SIZE= 131072)
- An OMVS segment that is defined to the security system (for example, RACF®), both for the user ID and its default group.
  - The HOME field must refer to a home directory allocated for the user (with READ, WRITE and EXECUTE access).

(ISPF in Table 2)
- The **PROGRAM** field should be `/bin/sh` or other valid z/OS UNIX shell
- The user ID does not require UID 0.
- The user ID's default group requires a GID.
- User must have **READ** and **EXECUTE** access to the Java™ directories.
Chapter 2. First usage

Figure 1 shows a schematic overview of the panel structure used by the utility. It also marks the flow you follow during the initial configuration of z/OS Explorer.

1. Starting the utility brings you to a panel that shows all known configurations.

   **Note:** This panel is bypassed if there are no user-generated configurations.

2. You start by specifying input and output locations.
3. That leads you to the main menu.
4. Here you indicate you want to configure z/OS Explorer.
5. The configuration panel leads you to defining required customization variables.
6. Then you can define optional customization variables.
7. When all input is provided, you generate workflow jobs, which brings you back to the table with the known configurations. (Step 1.)
8. Now you select the workflow item.
9. Then execute the listed tasks to build the configured z/OS Explorer setup.
Startup

The utility is started by executing FEKINIT, which resides in SFEKEXEC, from within an ISPF environment. The following sample invocation command can be used from any ISPF panel command line:

TSO EXEC 'FEK.SFEKEXEC(FEKINIT)'

FEKINIT can accept optional positional parameters:

```
>>FEKINIT <<
  exec_hlq [FEK.#CUST]
  product_hlq [user_hlq]
```

*Figure 2. FEKINIT startup parameters*

**product_hlq**
High-level qualifiers of the common product libraries. By default, the value is extracted from the exec startup information provided by TSO.

**user_hlq**
High-level qualifiers of the user-specific libraries. By default, FEK.#CUST is used.

The user will be asked to confirm or change this value during startup.

```
z/OS Explorer Vx.x utility initialization
Driver level ddmmyyyy
HLQ for install datasets = FEK
A high level qualifier for user configuration datasets is required
Enter the HLQ or press enter to default to FEK.#CUST

HLQ for user datasets = FEK.#CUST
```

*Note: Extensive help panels are available for each ISPF panel. They can be accessed with the PF1 key.*

Library locations

The options panel specifies the names of input and output data sets and directories. MVS™ based output always goes to one of the user-specific data sets: user_hlq.FEKnnnn.*, where *nnnn* is a number that represents a single configuration.

Note that the input fields are verified, but invalid values are accepted (after a warning). This allows you to create all configurations on one system (the driving system), even if the naming conventions on the target system are different.

Also note that the values defined here are fixed for the life of this configuration. To change them, you must create a new configuration (which can be based on this one to avoid duplication effort for the variables that do not change).
Customize and press ENTER to validate the input data
Press PF3 to exit and save or press PF12 to cancel changes

Base system parameters for z/OS Explorer Vx.x
The data set qualifiers or directories below must exist
Enter the high-level qualifier(s) of the product install
FEK
Enter the product installation directory (RSE home directory)
/usr/lpp/IBM/zexpl
Enter the Java directory location
/java/J6.0
Java Version : Unknown
The output directories below will be created if they do not exist as part of running the workflow steps during customization
Enter the directory for the configuration files (RSE config directory)
/etc/zexpl
Enter the root path for host-based client control directories
/var/zexpl
Enter the root path for log and temporary file directories
/var/zexpl

Note: The EXIT command (PF3) is used throughout the input panels to save the data and continue to the next panel. The CANCEL command (PF12) returns to the previous panel without saving.

Usage of the PF keys requires that KEYLIST ON is specified in ISPF.

Primary menu

Select Primary Customization Menus
C Initial Product Customization
E Edit active configuration files

Select after workflow configuration jobs have been run
I Installation verification

Select only for IBM service problem analysis
D Run debug reports

The primary menu groups several actions that can be done based upon the data provided in the active configuration. Except for the Initial Product Customization item, all items require a completed setup of z/OS Explorer.
Customization

Menu option "C" Initial Product Customization in the primary menu brings you to the customization overview panel. The options in this panel will guide you through mandatory and common optional customization tasks.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Started tasks</td>
</tr>
<tr>
<td>2</td>
<td>Remote Systems Explorer (RSE)</td>
</tr>
<tr>
<td>3</td>
<td>JES Job Monitor (JMON)</td>
</tr>
<tr>
<td>4</td>
<td>TSO/ISPF Client Gateway</td>
</tr>
</tbody>
</table>

Select after the above configuration steps have been completed
G Generate configuration jobs

The customization actions are grouped in three sections:

- Required customization: mandatory customization required for product startup
- Optional product customization: customization of optional product components, which must be acquired and installed separately from this product.
- Optional runtime customizations: customizations so that other products can use z/OS Explorer functions and generated code. Note that runtime customizations are currently not implemented and thus not available on the panel.

Each option will bring you to an input panel where you can specify values for the related variables. Note that the panels might not cover all possible configuration options to reduce complexity. See the Host Configuration Guide (SC27-8437) for a detailed overview of each available option.

**Note:**
- The input panel might have more lines than supported by your current screen size. You can use PF7 (up) and PF8 (down), to navigate through a multi-screen panel.

Once you completed the various customizations, select option "G" Generate to create a set of tasks (called the work items) that will create the configuration files and do related actions (such as security definitions) based upon the specified values.

Generating the work items completes the first step of the customization process for this configuration, so the provided information will be saved for future use. The utility will prompt you for a meaningful name for this configuration.

The configuration has been modified and will be saved on exit
Specified below is the default description for this configuration
Modify if desired: ZEXPLx.x Configuration

Press Enter to continue
Available configurations

Once the work items are generated and the configuration data is saved, you are brought to the panel that shows the defined configurations. This panel will be your initial startup panel from now on.

<table>
<thead>
<tr>
<th>Command</th>
<th>Status</th>
<th>Authority/Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Select</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>New</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Delete</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Work Flow</td>
<td></td>
</tr>
</tbody>
</table>

Select the configuration you want to work with:

- S: Select
- N: New
- D: Delete
- W: Work Flow

Command Browse F File Browse L Log Browse

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>User</th>
<th>Id</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>dd mm yyyy</td>
<td>hh:mm:ss</td>
<td>IBMUSER</td>
<td>FEK002</td>
<td>test systems</td>
</tr>
<tr>
<td>dd mm yyyy</td>
<td>hh:mm:ss</td>
<td>DEFAULT</td>
<td>FEK001</td>
<td>ZEXPLx.x Default Configuration</td>
</tr>
</tbody>
</table>

The newly created configuration is now part of the table, and various actions for a configuration are available.

Executing workflow items

By issuing the "W" Work Flow action against the newly created configuration, a table with the related work items is shown. The number of work items will vary, depending on the items that were configured earlier in the process.

<table>
<thead>
<tr>
<th>Work Item</th>
<th>Type</th>
<th>Status</th>
<th>Authority/Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>COPY UNIX</td>
<td>Command</td>
<td>Pending</td>
<td>Systems Programmer</td>
</tr>
<tr>
<td>COPY MVS</td>
<td>Command</td>
<td>Pending</td>
<td>Systems Programmer</td>
</tr>
<tr>
<td>APF</td>
<td>PARMLIB</td>
<td>Pending</td>
<td>Systems Programmer</td>
</tr>
<tr>
<td>LPA</td>
<td>PARMLIB</td>
<td>Pending</td>
<td>Systems Programmer</td>
</tr>
<tr>
<td>COMMDXX</td>
<td>PARMLIB</td>
<td>Pending</td>
<td>Systems Programmer</td>
</tr>
<tr>
<td>BPXPRMX</td>
<td>PARMLIB</td>
<td>Pending</td>
<td>Systems Programmer</td>
</tr>
<tr>
<td>FEJCNFG</td>
<td>CONFIG</td>
<td>Pending</td>
<td>Systems Programmer</td>
</tr>
<tr>
<td>rse.env</td>
<td>CONFIG</td>
<td>Pending</td>
<td>Systems Programmer</td>
</tr>
<tr>
<td>ISPF.conf</td>
<td>CONFIG</td>
<td>Pending</td>
<td>Systems Programmer</td>
</tr>
<tr>
<td>RSED</td>
<td>PROCLIB</td>
<td>Pending</td>
<td>Systems Programmer</td>
</tr>
<tr>
<td>JMON</td>
<td>PROCLIB</td>
<td>Pending</td>
<td>Systems Programmer</td>
</tr>
<tr>
<td>CLASS INIT</td>
<td>RACF</td>
<td>Pending</td>
<td>RACF Administrator</td>
</tr>
<tr>
<td>USER</td>
<td>RACF</td>
<td>Pending</td>
<td>RACF Administrator</td>
</tr>
<tr>
<td>STC</td>
<td>RACF</td>
<td>Pending</td>
<td>RACF Administrator</td>
</tr>
<tr>
<td>BPX.SERVER</td>
<td>RACF</td>
<td>Pending</td>
<td>RACF Administrator</td>
</tr>
<tr>
<td>PROG CTL</td>
<td>RACF</td>
<td>Pending</td>
<td>RACF Administrator</td>
</tr>
<tr>
<td>PASTTICKET</td>
<td>RACF</td>
<td>Pending</td>
<td>RACF Administrator</td>
</tr>
<tr>
<td>APPL</td>
<td>RACF</td>
<td>Pending</td>
<td>RACF Administrator</td>
</tr>
<tr>
<td>UNIXPRIV</td>
<td>RACF</td>
<td>Pending</td>
<td>RACF Administrator</td>
</tr>
<tr>
<td>OPERCMDS</td>
<td>RACF</td>
<td>Pending</td>
<td>RACF Administrator</td>
</tr>
<tr>
<td>DATASET</td>
<td>RACF</td>
<td>Pending</td>
<td>RACF Administrator</td>
</tr>
</tbody>
</table>
You can now edit each item (E or S command) to verify what it exactly does, and then execute it (A command). Some items will be executed by the utility (such as copying members). Other items will prompt you to do a manual action with the provided information (for example, updating PARMLIB members).

Also note that some items require authority that you might not have (such as RACF administrator). In this case, just give the person with sufficient authority the following information and ask that person to execute the related work items:

- Startup instructions for the tool (product HLQ and user HLQ are the two related variables)
- Which configuration to select
Chapter 3. Other actions

The utility supports more than just initial product configuration. It allows you to build various configurations, define values and work items for them, edit existing configuration files, run Installation Verification Procedures (IVPs), and collect debug information.

All these actions are described in detail in the provided help panels.

Doing the initial configuration of z/OS Explorer will give you an idea how the utility is designed. The key concepts you need to remember are:

- The utility is started by executing SFEKEXEC(FEKINIT).
- Customizations are grouped in a configuration, which can be selected in the table that is shown when the tool is started.
- The configuration table leads you to the work items and to the configuration-specific options.
- The configuration-specific main panel allows you to customize the product, edit existing configuration files, execute IVPs, and collect debug information.

Figure 3. Panel structure
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Index

Special characters
"C", Initial Product Customization 8
"G", Generate 8
"W", Work Flow 9

C
Configuration flow 5
configuration 8
optional product customization 8
Optional runtime customization 8
required customization 8

F
FEKINIT 6
FEKSETUP 1

H
Host Configuration Utility (utility) 1

I
ISPF profile data set 2

L
Library locations 6

P
Panel structure 11
primary menu 7
product data sets 1
FEK.SFEKEEXEC 1
FEK.SFEKINPT 1
FEK.SFEKMSGS 1
FEK.SFEKPANL 1
FEK.SFEKSKEL 1
FEK.SFEKTABLE 1

S
Startup 6
System Requirements 2

U
user-specific data sets (continued)
hlq.FEKnnnn.JCL 1
hlq.FEKnnnn.PARMLIB 1
hlq.FEKnnnn.PROCLIB 1
hlq.FEKnnnn.PROCLIB 1
hlq.FEKnnnn.IVP 1

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