

IBM Rational Developer for System z
8.5



Host Utility Guide

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8.5



Host Utility Guide

Note

Before using this information, be sure to read the general information under “Documentation notices for IBM Rational Developer for System z” on page 13.

Fourth edition (June, 2012)

This edition applies to IBM Rational Developer for System z Version 8.5 (program number 5724-T07) and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this document

This document discusses the use of the Host Configuration Utility which is part of IBM Rational Developer for System z Version 8.5. The Host Configuration Utility is an ISPF panel application that guides you through basic and common optional customization steps for Developer for System z. 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 *Rational® Developer for System z® Host Configuration Guide* (SC23-7658).

For earlier releases, use the configuration information found in the Host Configuration Guide for those releases.

From here on, the following names are used in this manual:

- *IBM Rational Developer for System z* is called *Developer for System z*.
- *Common Access Repository Manager* is abbreviated to *CARMA*.
- *Software Configuration and Library Manager Developer Toolkit* is called *SCLM Developer Toolkit*, abbreviated to *SCLMDT*.
- *z/OS® UNIX System Services* is called *z/OS UNIX*.
- *Customer Information Control System Transaction Server* is called *CICSTS*, abbreviated to *CICS®*.

This document is part of a set of documents that describe Developer for System z host configuration. Each of these documents has a specific target audience. You do not have to read all documents to complete the Developer for System z configuration.

- *Rational Developer for System z Host Configuration Guide* (SC23-7658) describes in detail all planning tasks, configuration tasks, and options (including optional ones) and provides alternative scenarios.
- *Rational Developer for System z Host Configuration Reference* (SC14-7290) describes Developer for System z design and gives background information for various configuration tasks of Developer for System z, z/OS components, and other products (such as WLM and CICS) related to Developer for System z.
- *Rational Developer for System z Host Configuration Quick Start Guide* (GI11-9201) describes a minimal setup of Developer for System z.
- *Rational Developer for System z Host Configuration Utility* (SC14-7282) describes the Host Configuration Utility, an ISPF panel application that guides you through basic and common optional customization steps for Developer for System z.

The information in this document applies to all Rational Developer for System z Version 8.5 packages including IBM® Rational Developer for zEnterprise™.

Who should read this document

This document is intended for system programmers who are going to configure Rational Developer for System z Version 8.5.

This document describes the different steps needed to do a setup using the Host Configuration Utility. Refer to *Rational Developer for System z Host Configuration Guide* (SC23-7658) 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 Rational Developer for System z Host Configuration Utility is a utility created to assist customers with Developer for System z 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 Rational Developer for System z 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 *Rational Developer for System z Host Configuration Guide* (SC23-7658) 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 1. Product data sets

| Data set name | Description |
|---------------|--|
| FEK.SFEKEXEC | REXX execs to run the utility |
| FEK.SFEKINPT | Control files |
| FEK.SFEKMSG | ISPF message files |
| FEK.SFEKPANL | ISPF panels |
| FEK.SFEKSKEL | Skeleton members tailored by the utility |
| FEK.SFEKTABL | ISPF PF-key tables |

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 (*nnnn* in Table 2). 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

| Data set name | Description |
|---------------------|---|
| hlq.\$R\$D\$Z | Temporary data set which is deleted during the termination procedure. |
| hlq.RDZLOG | Contains a log file for each version of the commands/JCL create by the utility. The member name is RDZnnnn. |
| hlq.RDZTABL | Contains the profile table. |
| hlq.RDZnnnn.ASM | Contains sample assembler code for configuration <i>nnnn</i> . This data set matches the FEK.#CUST.ASM data set referenced in the <i>Host Configuration Guide</i> (SC23-7658). |
| hlq.RDZnnnn.CMD | Contains generated command files for configuration <i>nnnn</i> . |
| hlq.RDZnnnn.CNTL | Contains generated command files for configuration <i>nnnn</i> . This data set matches the FEK.#CUST.CNTL data set referenced in the <i>Host Configuration Guide</i> (SC23-7658). |
| hlq.RDZnnnn.COBOLE | Contains generated command files for configuration <i>nnnn</i> . This data set matches the FEK.#CUST.COBOLE data set referenced in the <i>Host Configuration Guide</i> (SC23-7658). |
| hlq.RDZnnnn.JCL | Contains generated command files for configuration <i>nnnn</i> . This data set matches the FEK.#CUST.JCL data set referenced in the <i>Host Configuration Guide</i> (SC23-7658). |
| hlq.RDZnnnn.PARMLIB | Contains generated parmlib updates for configuration <i>nnnn</i> . This data set also matches the FEK.#CUST.PARMLIB data set referenced in the <i>Host Configuration Guide</i> (SC23-7658). |
| hlq.RDZnnnn.PROCLIB | Contains generated proclib updates for configuration <i>nnnn</i> . This data set matches the FEK.#CUST.PROCLIB data set referenced in the <i>Host Configuration Guide</i> (SC23-7658). |
| hlq.RDZnnnn.IVP | Contains generated IVP output for configuration <i>nnnn</i> . |
| hlq.RDZnnnn.DEBUG | This is a sequential data set that will contain the debug report file when run for version <i>nnnn</i> . |

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 match those of the Rational Developer for System z release it is part of, and are documented in *Prerequisites Guide* (SC23-7659), which is available in the Developer for System z online library at <http://www.ibm.com/software/rational/products/developer/systemz/library/index.html>.

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

- TSO access with minimum region size of 128M (specify logon SIZE= 131072)

- An OMVS segment 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).
 - 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

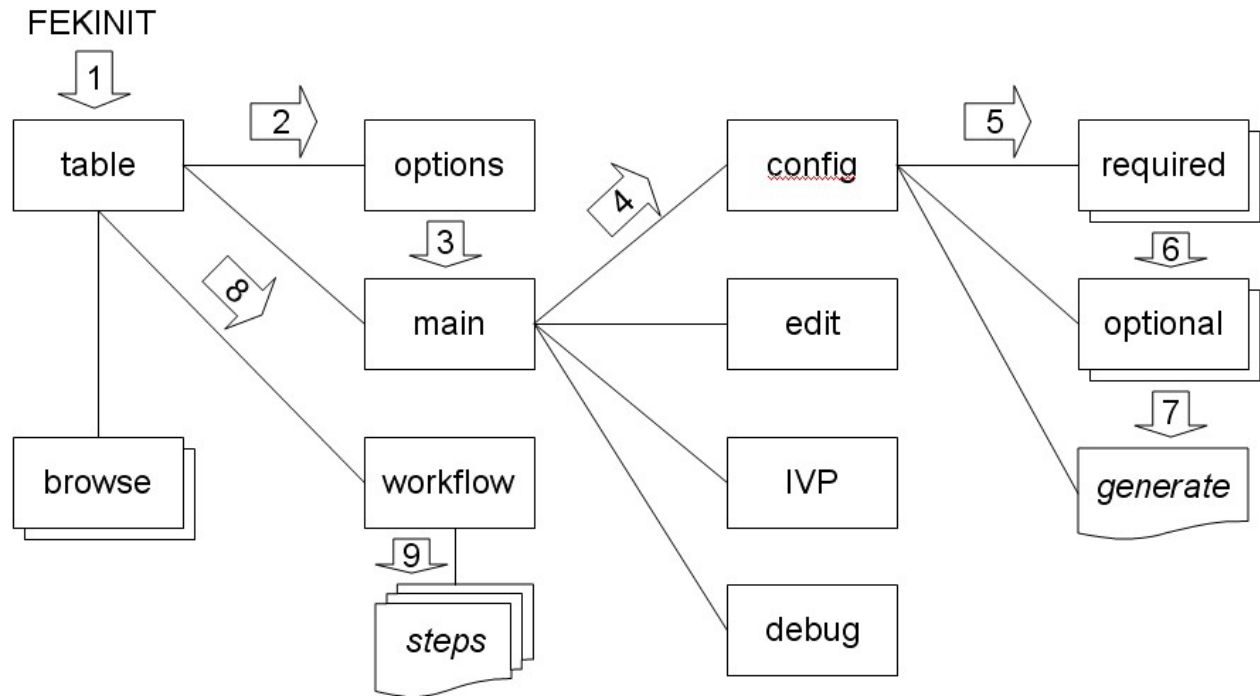


Figure 1. Configuration flow

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 Developer for System z.

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 Developer for System z.
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 Developer for System z 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:

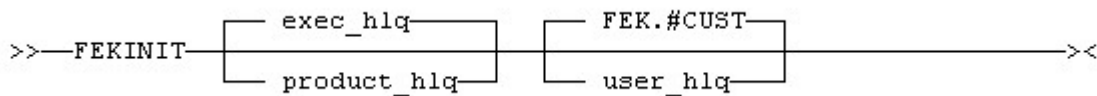


Figure 2. FEKINIT startup parameters

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.

```
Rational Developer for System z 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.RDZnnnn.*, 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).

```

Rational Developer for System z Vxx - Options Menu
Command ==>

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 Rational Developer for System z 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/rdz

Enter the Java directory location          Java Version : Unknown
    /usr/lpp/java/J5.0

The output directories below will be created if they do not exist as
part of running the work flow steps during customization

Enter the directory for the configuration files (RSE config directory)
    /etc/rdz

Enter the root path for host-based client control directories
    /var/rdz

Enter the root path for log and temporary file directories
    /var/rdz

```

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

```

Rational Developer for System z Vxx - Primary Menu
Option ==>

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 Developer for System z.

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.

```
Rational Developer for System z Vxx - Customization
Option ==>

Required customization
1 Started tasks
2 Remote Systems Explorer (RSE)
3 JES Job Monitor (JMON)
4 TSO/ISPF Client Gateway

Optional product customization
5 Common Access Repository Manager (CARMA)
6 SCLM Developer Toolkit (SCLMDT)

M Migrate existing customization settings

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, including migration assistance for upgrading an existing Developer for System z installation.
- Optional runtime customizations: customizations so that other products can use Developer for System z 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* (SC23-7658) 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.
- CA Endevor® integration requires that CARMA is configured.

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 : RDzx.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.

```

      Rational Developer for System z Vxx - Configuration   Row 1 to 2 of 2
Command ==>                                           Scroll ==> PAGE

Select the configuration you want to work with:

S Select N New D Delete W Work Flow
C Command Browse F File Browse L Log Browse

Date          Time      User      Id      Description
dd mmm yyyy  hh:mm:ss  IBMUSER  RDZ002  test systems
dd mmm yyyy  hh:mm:ss  DEFAULT  RDZ001  RDzx.x Default Configuration
```

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. The following screen capture shows the work items created for a basic customization with CA Endevor® integration using the CRASTART startup method.

| Rational Developer for System z Vxx - Work Flow | | | Row 1 to 26 of 26 |
|--|-----------------|---------|---------------------|
| Command ==> | | | Scroll ==> PAGE |
| <p>The Work Items are listed in the suggested order of execution. To Generate work items, select G (Generate configuration jobs) under the main RDZ configuration panel.</p> <p>Select the item you want to work with:</p> <p>A Action Item E or S EDIT B Browse C Mark as Completed L Browse Action Log</p> | | | |
| Work Item | Type | Status | Authority/Action |
| FEKCSET | Command | Pending | Systems Programmer |
| FEKCOPY | Command | Pending | Systems Programmer |
| APF | PARMLIB | Pending | Systems Programmer |
| LINKLIST | PARMLIB | Pending | Systems Programmer |
| COMMNDXX | PARMLIB | Pending | Systems Programmer |
| BPXPRMXX | PARMLIB | Pending | Systems Programmer |
| FEJJCNFG | PARMLIB | Pending | Systems Programmer |
| JMON | PROCLIB | Pending | Systems Programmer |
| RSED | PROCLIB | Pending | Systems Programmer |
| LOCKD | PROCLIB | Pending | Systems Programmer |
| RSEENV | rsed.envvars | Pending | Systems Programmer |
| ISPFCONF | ISPF.conf | Pending | Systems Programmer |
| RACFINIT | RACF | Pending | RACF Administrator |
| USER | RACF | Pending | RACF Administrator |
| DATASET | RACF | Pending | RACF Administrator |
| STC | RACF | Pending | RACF Administrator |
| JESCMDS | RACF | Pending | RACF Administrator |
| SERVER | RACF | Pending | RACF Administrator |
| PROGCTLM | RACF | Pending | RACF Administrator |
| APPL | RACF | Pending | RACF Administrator |
| PSTICKET | RACF | Pending | RACF Administrator |
| PROGCTLU | Command | Pending | Systems Programmer |
| CARMAVDEF | Command | Pending | CARMA Administrator |
| CARMAVMSG | Command | Pending | CARMA Administrator |
| CARMAVSTR | Command | Pending | CARMA Administrator |
| CARMACRA | CRASRV.property | Pending | CARMA Administrator |
| CARMCNFE | crastart.endev | Pending | CARMA administrator |

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 Developer for System z 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.

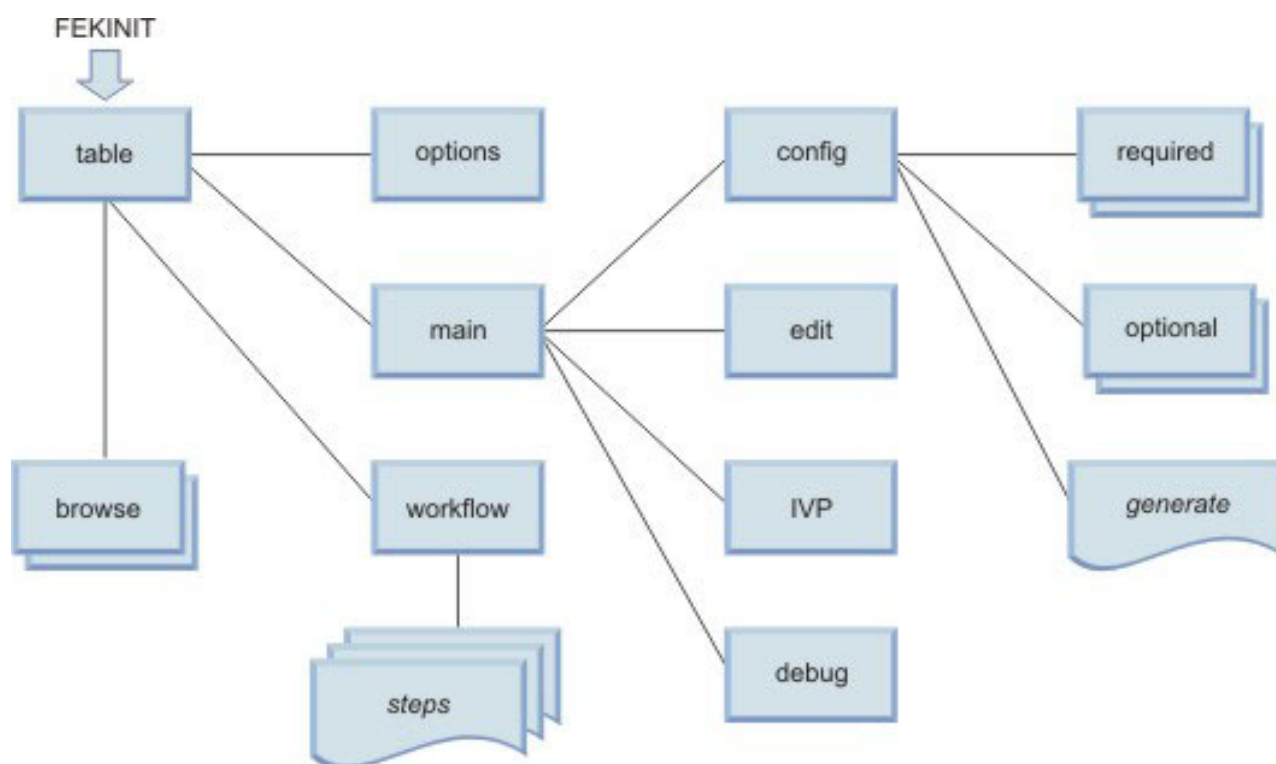


Figure 3. Panel structure

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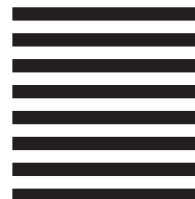


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