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## **z/XDC<sup>®</sup> RELEASE GUIDE**

**z/XDC<sup>®</sup> Release z1.13  
for z/OS**

David B. Cole

# *z/XDC® z1.13 RELEASE GUIDE*

## **PREFACE**

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## **(Preface)**

Our snail mail address is:

Address: **ColeSoft Marketing, Inc.**  
**736 Fox Hollow Road**  
**Afton, Virginia 22920**  
**USA**

Our home page provides the following services:

- General information about z/XDC.
- E-mail links to both Marketing, Technical Support, and Customer Services.
- FTP links for uploading diagnostic information and other files to Technical Support.
- FTP links for downloading current maintenance for z/XDC.
- Links permitting existing customers to download a full set of z/XDC's documentation.
- Online product delivery.
- 24x7 self-service for temporary, short-term, license activation codes for use in D.R. tests and other emergencies.

## **TRADEMARKS**

**TFS<sup>™</sup>**, **XDC-TFS<sup>™</sup>**, **CDF<sup>™</sup>**, **XDC-CDF<sup>™</sup>**, **FASM<sup>™</sup>**, **base/XDC<sup>™</sup>**, **c/XDC<sup>™</sup>** and **asm/XDC<sup>™</sup>** are trademarks of ColeSoft Partners, Inc. **Extended Debugging Controller<sup>®</sup>**, **XDC<sup>®</sup>**, and **z/XDC<sup>®</sup>** are registered trademarks of ColeSoft Partners, Inc. Other brand and product names referenced in this document are trademarks or registered trademarks of their various holders. Use of their names herein is for identification purposes only.

## **ADDITIONAL MANUALS**

z/XDC customers may make as many copies of this manual as they feel is necessary for the legitimate use of z/XDC within their organization. Existing customers may download from our web site ([www.colesoft.com](http://www.colesoft.com)) printable copies of all of z/XDC's manuals. Each manual is available in PDF format.

In addition, all manuals (except the Installation Guide) can be printed directly from within z/XDC itself. To print your own set of manuals, start an z/XDC debugging session (example: XDCCALL IEFBR14), then issue the following commands:

```
PRINT HELP USERGUIDE;SET PRINT CLOSE  
PRINT HELP COMMANDS;SET PRINT CLOSE  
PRINT HELP MESSAGES;SET PRINT CLOSE  
PRINT HELP WHATSNEW Z112;SET PRINT CLOSE
```

Alternatively, you also can print these manuals by issuing z/XDC's **READ** command to run the **MANUALS** member of z/XDC's script library. Example: **READ DBCOLE<sup>1</sup>.XDCZ1D.XDCCMDS(MANUALS)**.

You also may print a **Quick Reference** for z/XDC by issuing z/XDC's **READ** command to run the **QUICKREF** member of z/XDC's script library. Example: **READ DBCOLE.XDCZ1D.XDCCMDS(QUICKREF)**.

For more information about using the **PRINT HELP** and related commands, see **HELP HELP PRINTING**.

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<sup>1</sup>The library's high level qualifier may be different at your data center. Please ask your Systems Programmer.

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## INTRODUCTION

ColeSoft has pursued the goal of making z/XDC's online documentation as comprehensive as possible. Towards that end, we have devoted considerable effort to greatly expanding the amount of information online and to improving the accessibility of that information and the navigability of the Online Help database as a whole.

This manual is nothing more than a printout of a section of the Online Help database. It is provided for those people (like myself) who steadfastly prefer looking at paper instead of glass. (It's hard to write margin notes on glass.)

The information in the Online Help database has been segmented into five printed documents:

- **z/XDC® User Guide**  
Contains comprehensive tutorials about the many features and capabilities of z/XDC.
- **z/XDC® Commands**  
Contains the detailed syntax, usage descriptions, and examples of all of z/XDC's commands.
- **z/XDC® Messages**  
Contains descriptions of all of the messages that can be issued by z/XDC and all of its various components.
- **z/XDC® z1.13 Release Guide**  
Contains a history of all changes and upgrades made in the current release of z/XDC.
- **z/XDC® Quick Reference**  
Contains brief lists of z/XDC commands, built-in equates, and other information.

There are a couple of important structural differences between the Online Help and these manuals:

- When the Help panels are displayed online, a large number of "hyperlinks" are available for easily pursuing subjects related to the current information. These hyperlinks do not exist in the printed manuals.
- The printed manuals contain comprehensive indexes to help you quickly find the specific information that you may be looking for. These indexes do not exist online.
- The PDF copies of the printed manuals can be searched using typical PC-style searching commands.
- "Release Guides" for older versions and releases of z/XDC are available online via the "HELP WHATSNEW" command.

### A Roadmap

The structure of this manual follows the structure of the Online Help database. A consequence of this is that the sequence of information in this book, over all, is decidedly non-sequential. For those of you who prefer to read a manual from beginning to end, please accept my apologies. However, please let me make some suggestions.

If you are an experienced z/XDC user, then start with the **z/XDC® z1.13 Release Guide**. This will tell you what's new in this release of z/XDC. Online, the Release Guide can be reached by typing HELP WHATSNEW. You can then use hyperlinks to pursue the specific information that is of interest to you.

For new users, turn to the **z/XDC® User Guide**, and examine its Table of Contents carefully. You will see that there are about two dozen major topics arranged alphabetically: Addressing, Attentions, Breakpoints, ..., Virtmem, XDCCALL. Information within topics is presented more or less sequentially. The following **User Guide** topics are of particular interest:

- Perhaps the first topic that should be read is named "**DEBUGGING**". This and its subtopics give comprehensive information about whether and to what extent you may have to modify your program in order to use z/XDC.
- Another topic that should be read early on is named "**XDCCALL**". XDCCALL is a utility program that can be used to start a debugging session for your program.
- If you plan to debug programs that run as batch jobs or system tasks, then read the "**CDF**" topic. "Cross Domain Facility" is the component of z/XDC that permits user terminals to connect to debugging sessions for background jobs.

For z/XDC command information, turn to the **z/XDC® Commands** manual. Start with the basic commands. The DISPLAY,

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## **(Introduction)**

FORMAT, and LIST commands display storage and important program related structures. The AT and TRAP commands set breakpoints. You can use the TRACE command to step execution through your program slowly. The ZAP command allows you to change storage and registers.

If you wish to play with z/XDC's terminal and user interfaces, read the "**FULLSCREEN**" section of the **User Guide**. Also, try the PROFILE command for displaying and changing a very large number of session parameters.

Generally, the best approach is to plan your reading using the Table of Contents. And of course, if you can't find the information that you are looking for, call us. There's no charge, and we will be glad to help! Our number is 800-XDC-5150 (USA: 928-771-2003). If the information that you want is in the book, we will explain what you want to know and tell you where to find complete information. If it is not, then we will add it for our next release.



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## **Online Help Panels**

### **Help Whatsnew**

XDC's Change History: For detailed information, type **S** at the left, then press ENTER.

The information presented below will be the most useful to experienced XDC users who want a concise summary of what has changed and a road map of where to look for more specific information.

- z/XDC      z1.13 - (10/11) Major changes:
- z/OS R1.13 Support
  - 64-bit execution support
- z/XDC      z1.12 - (01/11) Major changes:
- SRB support improvements
  - Dataspace related improvements
  - Helper Dialogs
  - Point-and-Shoot command improvements
  - z/Enterprise machine instruction support
  - CDF changes
- z/XDC      z1.10 - (05/09) Major changes:
- c/XDC Feature: Support for debugging IBM C/C++ source code programs.
  - Support for 75 new machine instructions introduced by IBM's new System z10 processor.
  - Licensed Features Support: Support for licensing (or not) specific Features within z/XDC.
- z/XDC      z1.9 - (10/07) Major changes:
- Support for using REXX to write user-written z/XDC commands.
  - Decimal floating point and binary floating point display support.
  - z/OS R1.9 support.
- z/XDC      z1.8 - (10/06) Major changes:
- Support for debugging SRB mode programs
  - Support for executing z/XDC as an FRR
- z/XDC      z1.7 - (02/06) Beta release for z1.8
- z/XDC      z1.6 - (11/04) Major changes:
- Support for HL-ASM R1.5's ADATE
  - Support for z/OS R1.6's ALRF
  - Protected-storage protection support
- z/XDC      z1.3 - (05/04) Autocloning, complete program object support, etc.
- z/XDC      z1.2 - (10/03) Z/Architecture support (64-bit addressing, etc.)
- XDC/SE S2.0 - (12/00) Incremental changes implemented via maintenance.

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## **(Help Whatsnew)**

XDC/SE S2.0 - (08/00) New release: Source Level Debugging Support!  
XDC/SE S1.0 - (11/98) New version! PDS/E support! XMS Support! Etc.  
XDC X3.3 - (10/97) Incremental fixes and additions  
XDC X3.2 - (12/96) Incremental fixes and additions  
XDC X3.1 - (04/95) Beta-test release of X3.2  
XDC X3.0 - (06/94) MVS/ESA support

## **Help Whatsnew Z113**

z/XDC release **z1.13** includes all maintenance fixes to release **z1.12** and the following additional changes. For detailed information, you can select the following topics directly, or you can use **HELP \*NEXT** to proceed sequentially. Use **HELP \*FORWARD** to skip.

- ABOVETHEBARPGMS** - z/XDC z1.13 fully supports z/OS R1.13's limited support for above-the-bar program execution.
- ADDRESSEXPRESSIONS** - Some changes have been made to the syntax of address expressions pertaining to PSWs and to the use of the ! character.
- COMMANDS** - Several z/XDC commands have been either added, deleted or changed.
- EQUATES** - Several new **built-in** and **automatic equates** have been created.
- ONLINEHELP** - New **topics** have been added to the Online Help.
- ZOSR13SUPPORT** - z/OS R1.13 contain significant changes that are not compatible with older releases of z/XDC.
- MISCELLANEOUS** - Some of z/XDC's numerous miscellaneous **minor changes** are listed here.
- INCOMPATIBILITIES** - Those changes that are **incompatible** with prior releases are listed here.

## **Help Whatsnew Z113 ABovethebarpgms**

In z/OS R1.13, IBM has expanded its support of above-the-bar execution. Previously, programs could execute above-the-bar only if they were running disabled for interrupts and they did not encounter any page faults or other program checks.

Beginning in R1.13, z/OS supports above-the-bar execution for enabled programs and page-faulting programs. They may not issue SVCs or invoke System owned PC routines, and they may not use any other System interfaces (branch entries and the like), but they may at least run above-the-bar.

z/XDC in release z1.13 now has full support for debugging programs running above-the-bar.

## **Help Whatsnew Z113 ADdressexpressions**

The following changes have been made to the syntax of address expressions.

**PSWE** and **EPSWE**

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## **(Help Whatsnew Z113 Adresseexpressions)**

Two new keywords have been created to represent extended (128-bit) PSWs:

- **PSWE** represents the retry level wide PSW.
- **EPSWE** represents the error level wide PSW.

For more information, see HELP ADDRESSING SYMBOLIC PSWS.

!

Use of the bang character as an AMODE-sensitive indirect operator **is deprecated** for now and will be eliminated altogether in a future release! Going forward ! should be used only as the **64-bit** indirect operator.

If you need to use an AMODE-sensitive indirect operator (such as within scripts), please use the **~INDIRECT(AMODE)** built-in function. See HELP FUNCTIONS INDIRECT for more information.

Example: **FORMAT ERW1~INDIRECT(AMODE,00K)**

The location pointed to by ERW1 is displayed. The address extracted from ERW1 will be truncated to 24, 31 or 64 bits according to the error level PSW's current Addressing Mode.

## **Help Whatsnew Z113 Commands**

The following commands are either new to z/XDC z1.13, changed in z/XDC z1.13 or deleted from z/XDC z1.13.

### **LIST EQUATES**

A minor improvement has been made to the report produced by this command. The length of storage covered by an equate is now reported both in hex and in **scaled decimal**. For more information, see HELP COMMANDS LIST EQUATES.

### **LIST FEATURES**

Several new z/OS Support features have been added to this command's displays:

- **ABOVE-BAR-X**: z/OS R1.13 has limited support for executing programs located in 64-bit storage.
- **BIGPSW**: z/OS R1.13 has support for saving and restoring 128-bit wide PSWs.
- **GCOMMON**: Starting in R1.10, z/OS began supporting a **Common Area** (a GCSA, if you will) above the bar.
- **GSYSAREA**: Starting in R1.12, z/OS began supporting an above-the-bar **System Area**.
- **JAVAWORK**: Starting in R1.9, z/OS began supporting a **JAVA Work Area** starting at the 2G line, thus replacing (and going beyond) the old DEADZONE.
- **SSRX**: Starting in z/OS R1.13 the SSRB has been split into two smaller control blocks:
  - A 64-bit storage resident **SSRX**
  - A 31-bit storage resident **SSRB** remnant

For more information, see HELP COMMANDS LIST FEATURES.

### **LIST PROFILES**

When this command encounters a profile library member that was created by z/XDC (or

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## **(Help Whatsnew Z113 Commands)**

a predecessor), yet that member fails certain validity checks, then that profile will be flagged as (**INVALID!**) in the display produced. For more information, see **HELP COMMANDS LIST PROFILES**.

### **LIST SSRBS**

In z/OS R1.13 and newer systems, the **LIST SSRBS** command now generates **SSRX#n** automatic equates to label the SSRXs from which it obtains information for its displays. (This is in addition to the **SSRB#n** and **SSRBEP#n** equates that **LIST SSRBS** was already generating.)

All commands that accept an **ssrbaddress** operand will now accept either an **SSRB** address or an **SSRX** address. as a reference to an **SRB** routine. It doesn't matter which is given, **SSRB** or **SSRX** address. Either will result in the same display or action.

A sampling of the commands that accept **ssrbaddress** operands include:

```
LIST ACCESSLISTS ssrbaddress
LIST PSW ssrbaddress
LIST RWREGS ssrbaddress
LIST FRn ssrbaddress
LIST LSTACK ssrbaddress
```

There are numerous variations of the **LIST register** and **LIST registerset** commands that also accept **SSRB** and **SSRX** address operands.

### **SET PSW,...**

### **SET PSWE,...**

The **SET PSW** command has been upgraded to more fully support changing the 128-bit "extended" **PSW** (referred to by z/XDC as **PSWE**). So all changes seemingly made to 64-bit "PSWs" are actually made to 128-**PSWEs**. Then the 64-bit "scrunched" **view** of the **PSWE** is rebuilt.

In other words, when **SET'ing** or **ZAP'ing** the **PSW**, there is no difference. All changes are first made to the 128-bit **PSWE**. Then the 64-bit **PSW** view is rebuilt from the updated **PSWE** information.

Accordingly, **SET PSWE** is nothing more than an alias of **SET PSW**.

### **ZAP PSW,...**

### **ZAP PSWE,...**

The **ZAP** command is now able to zap 64-bit instruction addresses into the retry level **PSW**. For more information, see **HELP COMMANDS ZAP TARGETS**.

Note, as in the **SET PSW/PSWE** case, **ZAP PSW** and **ZAP PSWE** are just aliases of each other.

## **Help Whatsnew Z113 Equates**

Several new built-in and automatic equates have been implemented. (For more information, see **HELP EQUATES BUILTIN**.)

### **SSRX#n**

These equates are regenerated whenever the **LIST SSRBS** command is issued. They label the **SSRXs** that contribute (along with **SSRBs**) information to the **LIST SSRBS** command's display.

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## **(Help Whatsnew Z113 Equates)**

All commands that accept an **ssrbaddress** operand will now accept either an SSRB address or an SSRX address as a reference to an SRB routine. It doesn't matter which is given, SSRB or SSRX address. Either will result in the same display or action.

A sampling of the commands that accept **ssrbaddress** operands include:

```
LIST ACCESSLISTS ssrbaddress
LIST PSW ssrbaddress
LIST RWREGS ssrbaddress
LIST FRn ssrbaddress
LIST LSTACK ssrbaddress
```

There are numerous variations of the **LIST register** and **LIST registerset** commands that also accept SSRB and SSRX address operands.

**JAVAWORK**  
**GSYSAREA**  
**GPVTLOW**  
**GCOMMON**  
**GSHARED**  
**GPVTHIGH**

These are built-in equates that map the layout of above-the-bar storage. For detailed information, see **HELP EQUATES BUILTIN STORAGE**.

**DEADZONE**  
**GAGALAND**

These are older built-in equates that were used previously to describe above-the-bar storage. They have been deprecated.

## **Help Whatsnew Z113 Onlinehelp**

As with any new release, the Online Help has been extensively updated to document the changes in this release. But in addition, the following topics have either been added or extensively revised, so particular mention is appropriate.

**HELP FULLSCREEN TERMINALS ISPFSETTINGS**

This is a new topic that describes the ISPF Settings that need to be made in order to support z/XDC's large screen geometry displays.

## **Help Whatsnew Z113 Zosr13support**

With the release of z/OS R1.13, IBM introduced significant control block changes that are entirely incompatible with older releases of z/XDC. These changes cause z1.12 and older releases of z/XDC to fail frequently with 0C4 abends.

This **z1.13** release of z/XDC understands and accommodates the z/OS changes. And it also remains compatible with older releases of z/OS from R1.6 and up through R1.13. So all customers can migrate to this release of z/XDC without problems.

The changes that matter to z/XDC are basically these:

- The rather large SSRB was broken into two, smaller cblocks. The bulk of the information was transferred to a new **64-bit resident** cblock named **SSRX**.
- What was left of the SSRB remains 31-bit resident, but the data fields are

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## **(Help Whatsnew Z113 Zosr13support)**

**completely rearranged(!)**, thus making nearly all references via older cblock maps simply incorrect. In other words, even though the SSRB retains its same name, and even though the retained fields also retain their old names, their offsets for the most part are changed. So in effect the R1.13 SSRB is an entirely different cblock from the R1.12 SSRB. (In my opinion, it would have been better if IBM had finished the job and changed the SSRB's name as well, but they didn't. Oh well.)

The upshot is that **all** references by older z/XDC's (z1.12 and older) to SSRB fields will be wrong! The best result of that would be an immediate 0C4. The worse result would be z/XDC seeming to run fine, but hidden corruption occurring due to z1.12 not knowing that the SSRB no longer is what he thinks it is.

So the bottom line is that all z/XDC customers may upgrade to z1.13 at any time. All z/XDC customers **must** upgrade to z1.13 when they migrate their z/OS to R1.13

## **Help Whatsnew Z113 Miscellaneous**

Several additional random changes have been made to z/XDC in this release. Most of them are listed here.

z/OS R1.13 - Support has been written allowing z/XDC to survive when running in a z/OS R1.13 system. This mainly involves understanding that the old SSRB has been split up into a 64-bit storage resident SSRX and a much smaller and completely reorganized 31-bit storage resident SSRB.

Dual Pathing - z/XDC z1.13 continues to function correctly in older releases of z/OS.

## **Help Whatsnew Z113 Incompatibilities**

Some changes have been made that are incompatible with prior releases of z/XDC. For detailed information, you can select the following topics directly, or you can use **HELP \*NEXT** to proceed sequentially. Use **HELP \*FORWARD** to skip.

**LKEDJCL** - A change has been made to all of the sample JCL members, found in DBCOLE.XDCZ1D.XDCJCL, that linkedit the various z/XDC load modules.

## **Help Whatsnew Z113 Incompatibilities Lkedjcl**

Sample JCL for linkediting the various z/XDC load modules and program objects is published in the (**Lxxxxxxx**) members of DBCOLE.XDCZ1D.XDCJCL. The JCL in all of those members has been changed in a way that is not compatible with prior release of z/XDC:

- In all of the linkedit JCL members, the **//SYSLMOD** DD statements point to a customer created load library.
- Previously, that library was a PDS and was named DBCOLE.XDCZ1D.XDCLINK.USER.
- Now that library is a **PDSE** and is named DBCOLE.XDCZ1D.XDCLINKE.USER.

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**(Help Whatsnew Z113 Incompatibilities Lkedjcl)**

This change was made for two reasons:

- One of z/XDC's load modules (XDCCXDC) is actually a **program object** and, therefore, **cannot** reside in an old style PDS.
- It seems to me that going forward it would be less burdensome for customers to deal with just one user created library instead of two.

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