

zSecure Visual  
Version 2.3.1

*Client Manual*





zSecure Visual  
Version 2.3.1

## *Client Manual*



**Note**

Before using this information and the product it supports, read the information in “Notices” on page 155.

**September 2018**

This edition applies to version 2, release 3, modification 1 of IBM Security zSecure Visual (product number 5655-N20) and to all subsequent releases and modifications until otherwise indicated in new editions.

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# Contents

## About this publication . . . . . v

zSecure documentation . . . . .	v
Obtain licensed documentation . . . . .	v
IBM zSecure Suite library . . . . .	vi
IBM zSecure Manager for RACF z/VM library . . . . .	viii
Related documentation . . . . .	ix
Accessibility . . . . .	xi
Technical training . . . . .	xi
Support information . . . . .	xi
Statement of Good Security Practices . . . . .	xi

## Chapter 1. IBM Security zSecure Visual setup and configuration . . . . . 1

Release information . . . . .	1
Prerequisites for installation . . . . .	1
Installing IBM Security zSecure Visual . . . . .	2
IBM Security zSecure Visual maintenance . . . . .	4
Uninstalling IBM Security zSecure Visual . . . . .	4
Modifying IBM Security zSecure Visual . . . . .	5
Repairing IBM Security zSecure Visual . . . . .	5
Upgrading IBM Security zSecure Visual . . . . .	5
Configuring IBM Security zSecure Visual . . . . .	6
Server definition parameters . . . . .	7
Multiple Visual server definitions . . . . .	9
Copy function for multiple server definitions . . . . .	10
Automated setup and configuration . . . . .	10
Configuration file . . . . .	10
Creating a configuration file . . . . .	10
Configuration file layout . . . . .	11
Running a configuration file on the target machine . . . . .	12
Updating server definitions from a configuration file . . . . .	12
Configuration limitations . . . . .	12
Modifying an existing configuration file . . . . .	12
Notes . . . . .	13
Configuration file sample tasks . . . . .	13
Silent installation . . . . .	14
Log file for silent installation . . . . .	14
Examples of silent installation commands . . . . .	15
Automate upgrade path examples . . . . .	15

## Chapter 2. IBM Security zSecure Visual customization and primary tasks . . . . . 17

Selecting to work locally or in a multi-system environment . . . . .	18
Logging on . . . . .	19
Selecting available nodes . . . . .	20
An example first task . . . . .	21
Logging off . . . . .	22
Exiting . . . . .	22
Turning off the server definition name . . . . .	22
Viewing the log files . . . . .	22
Using the Communication window . . . . .	24
Setting display preferences . . . . .	25

Setting interface options according to your access level . . . . .	27
Setting the date format . . . . .	29
Drag and drop function . . . . .	30
Copy and paste function . . . . .	31
Toolbar buttons . . . . .	31
Right mouse button . . . . .	31
Naming conventions . . . . .	31
Changing column sequences . . . . .	31
Site-specific columns and fields . . . . .	32
Saving and exporting printable data . . . . .	32
Printing . . . . .	32
Previewing a print file . . . . .	33
Tables available for printing . . . . .	33
Server Information dialog . . . . .	34
Display of the ? character . . . . .	34

## Chapter 3. RACF database operations 35

Select Nodes dialog: multi-system options . . . . .	36
Verification of actions across multiple systems . . . . .	37
Using the Find dialog . . . . .	38
Ambiguous Class selection . . . . .	42
Finding classes with the Select class dialog . . . . .	42
Viewing connected users and groups . . . . .	43
Viewing the groups . . . . .	43
Selecting resources for a specific user ID or group with the Permits function . . . . .	45
Using Scope . . . . .	46
Using Scope * . . . . .	50
Viewing RACF SETROPTS settings . . . . .	52
Viewing an Access List . . . . .	53
Viewing an Effective Access List . . . . .	53
Viewing a member list . . . . .	54

## Chapter 4. User management . . . . . 55

User table . . . . .	55
MFA Factor management . . . . .	59
MFA policy management . . . . .	62
Viewing user properties . . . . .	63
Duplicating a user . . . . .	67
Deleting a user . . . . .	70
Resuming a user . . . . .	71
Disabling a user . . . . .	72
Enabling a user . . . . .	72
Setting passwords (or passphrases) . . . . .	74
Setting a default password (or passphrase) . . . . .	76
Removing the default password (or passphrase) . . . . .	78
About Schedules . . . . .	79
Viewing and editing schedules . . . . .	80
Adding a schedule interval . . . . .	81
Repeating a schedule interval . . . . .	81
Deleting a schedule interval . . . . .	81
Mappings . . . . .	82
Viewing mappings . . . . .	82

## **Chapter 5. Group management . . . . 85**

Group table . . . . .	85
Viewing group properties. . . . .	87
Adding a subgroup. . . . .	89
Duplicating a group . . . . .	91
Deleting a group . . . . .	94

## **Chapter 6. Connect management . . . . 97**

Connects table . . . . .	97
Connects in multi-system mode . . . . .	99
Viewing and changing Connect properties . . . . .	99
Creating a connect. . . . .	103
Attributes gSpec, gOper and gAud . . . . .	104
Drag-and-drop and copy-paste . . . . .	105
Deleting a connect. . . . .	105
Copy, merge, and move functions for connects . . . . .	106

## **Chapter 7. Resource management . . . 109**

Resource profiles . . . . .	110
Resource table . . . . .	110
Viewing mapping information. . . . .	112
Adding a resource profile . . . . .	113
Duplicating a resource profile . . . . .	114
Editing resource profile properties . . . . .	115
Deleting a resource profile . . . . .	117
Modifying an Access List (ACL) . . . . .	118
Adding a user or group to an access list . . . . .	120
Editing an access list entry . . . . .	121
Deleting an access list entry . . . . .	122
Profile members . . . . .	122
Example of grouping class . . . . .	122
Exceptions . . . . .	123
Viewing and changing a member list . . . . .	123
Adding a member. . . . .	124
Editing a member . . . . .	125
Deleting a member . . . . .	125
Refreshing a class . . . . .	126

## **Chapter 8. Segment management. . . . 127**

Authorities and settings required to manage segments . . . . .	127
Viewing and editing segment types . . . . .	127
Application segments. . . . .	128
Viewing the segment list . . . . .	130
Using the Segment Detail window . . . . .	130
Adding a segment. . . . .	132
Exceptions . . . . .	133
Segment fields . . . . .	134
Segments of resource profiles . . . . .	134
APPCLU - SESSION . . . . .	135
CDT - CDTINFO . . . . .	135
CFIELD - CFDEF . . . . .	136
CSFKEYS, GCSFKEYS, XCSFKEY, GXCSFKEY - ICSF. . . . .	136
DATASET - DFP . . . . .	137
DATASET - TME . . . . .	137
DIGTCERT - CERTDATA . . . . .	137
DIGTRING - CERTDATA . . . . .	138
DLFCLASS - DLFDATA . . . . .	138

EJBROLE - TME . . . . .	138
FACILITY - DLFDATA . . . . .	138
FACILITY - EIM . . . . .	139
FACILITY - PROXY . . . . .	139
FACILITY - TME . . . . .	139
LDAPBIND - EIM . . . . .	140
LDAPBIND - ICTX . . . . .	140
LDAPBIND - PROXY. . . . .	140
MFADEF - MFPOLICY . . . . .	140
PROGRAM - SIGVER . . . . .	140
PTKTDATA - SSIGNON. . . . .	141
REALM - KERB . . . . .	141
ROLE - TME . . . . .	141
STARTED - STDATA . . . . .	142
SYSMVIEW - SVFMR. . . . .	142
Segments of group profiles . . . . .	142
GROUP - CSDATA . . . . .	142
GROUP - DFP . . . . .	142
GROUP - OMVS . . . . .	142
GROUP - OVM. . . . .	143
GROUP - TME . . . . .	143
Segments of user profiles . . . . .	143
USER - CICS . . . . .	144
USER - CSDATA . . . . .	144
USER - DCE. . . . .	144
USER - DFP . . . . .	144
USER - EIM . . . . .	144
USER - KERB . . . . .	145
USER - LANGUAGE. . . . .	145
USER - LNOTES . . . . .	145
USER - NDS. . . . .	145
USER - NETVIEW. . . . .	145
USER - OMVS . . . . .	146
USER - OPERPARM . . . . .	146
USER - OVM . . . . .	147
USER - PROXY. . . . .	147
USER - TSO . . . . .	147
USER - WORKATTR . . . . .	148

## **Chapter 9. Running REXX scripts. . . 149**

Prerequisites for running REXX scripts on the Visual Server . . . . .	149
Running a REXX script in the Visual Client . . . . .	149

## **Chapter 10. Managing client definitions. . . . . 151**

Maintaining client definitions . . . . .	151
Batch mode to add multiple client definitions . . . . .	153
Client definition attributes . . . . .	153
Copying a client definition to the clipboard . . . . .	153

## **Notices . . . . . 155**

Trademarks . . . . .	157
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## **Glossary . . . . . 159**

## **Index . . . . . 161**

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## About this publication

IBM® Security zSecure™ Visual enables administrators to manage mainframe security and administration from a Microsoft Windows workstation through a Windows interface to the mainframe server. IBM Security zSecure Visual has two components: IBM Security zSecure Visual Server and IBM Security zSecure Visual Client. This publication describes how to install, configure, and use IBM Security zSecure Visual Client.

Readers need to be familiar with RACF® administrative tasks and using Microsoft Windows-based applications. This publication assumes that the IBM Security zSecure Visual server mainframe component is installed and configured.

**Note:** Information about setting up and configuring a Visual Server on a z/OS® system is available in the *IBM Security zSecure CARLa-Driven Components Installation and Deployment Guide*.

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## zSecure documentation

The IBM Security zSecure Suite and IBM Security zSecure Manager for RACF z/VM libraries consist of unlicensed and licensed publications. This section lists both libraries and instructions to access them.

Unlicensed zSecure publications are available at the IBM Knowledge Center for IBM zSecure Suite (z/OS) or IBM zSecure Manager for RACF z/VM. The IBM Knowledge Center is the home for IBM product documentation. You can customize IBM Knowledge Center, create your own collection of documents to design the experience that you want with the technology, products, and versions that you use. You can also interact with IBM and with your colleagues by adding comments to topics and by sharing through email, LinkedIn, or Twitter. For instructions to obtain the licensed publications, see “Obtain licensed documentation.”

*Table 1.*

IBM Knowledge Center for product	URL
IBM zSecure Suite (z/OS)	<a href="http://www.ibm.com/support/knowledgecenter/SS2RWS/welcome">www.ibm.com/support/knowledgecenter/SS2RWS/welcome</a>
IBM zSecure Manager for RACF z/VM	<a href="http://www.ibm.com/support/knowledgecenter/SSQQGJ/welcome">www.ibm.com/support/knowledgecenter/SSQQGJ/welcome</a>

The IBM Terminology website consolidates terminology for product libraries in one location.

## Obtain licensed documentation

All licensed and unlicensed publications for IBM Security zSecure Suite 2.3.1 and IBM Security zSecure Manager for RACF z/VM 1.11.2, except the Program Directories, are included on the *IBM Security zSecure Documentation CD, LCD7-5373*. Instructions for downloading the disk image (.iso) file for the zSecure Documentation CD directly are included with the product materials.

To obtain the .iso file of the Documentation CD, or PDF files of individual licensed publications, send an email to [tivzos@us.ibm.com](mailto:tivzos@us.ibm.com). Request access to the licensed publications for IBM Security zSecure Suite 2.3.1. Include your company's IBM customer number and your preferred contact information. You will receive details to fulfill your order.

## IBM zSecure Suite library

The IBM Security zSecure Suite library consists of unlicensed and licensed publications.

Unlicensed publications are available at the IBM Knowledge Center for IBM zSecure Suite. Unlicensed publications are available to clients only. To obtain the licensed publications, see *Obtaining licensed publications*. Licensed publications have a form number that starts with L; for example, LCD7-5373.

The IBM Security zSecure Suite library consists of the following publications:

- *About This Release* includes release-specific information as well as some more general information that is not zSecure-specific. The release-specific information includes the following:
  - *What's new*: Lists the new features and enhancements in zSecure V2.3.1.
  - *Release notes*: For each product release, the release notes provide important installation information, incompatibility warnings, limitations, and known problems for the IBM Security zSecure products.
  - *Documentation*: Lists and briefly describes the zSecure Suite and zSecure Manager for RACF z/VM libraries and includes instructions for obtaining the licensed publications.
  - *Related documentation*: Lists titles and links for information related to zSecure.
  - *Support for problem solving*: Solutions to problems can often be found in IBM knowledge bases or a product fix might be available. If you register with IBM Software Support, you can subscribe to IBM's weekly email notification service. IBM Support provides assistance with product defects, answers frequently asked questions, and helps to resolve problems.
- *IBM Security zSecure CARLa-Driven Components Installation and Deployment Guide*, SC27-5638  
Provides information about installing and configuring the following IBM Security zSecure components:
  - IBM Security zSecure Admin
  - IBM Security zSecure Audit for RACF, CA-ACF2, and CA-Top Secret
  - IBM Security zSecure Alert for RACF and CA-ACF2
  - IBM Security zSecure Visual
  - IBM Security zSecure Adapters for SIEM for RACF, CA-ACF2, and CA-Top Secret
- *IBM Security zSecure Admin and Audit for RACF Getting Started*, GI13-2324  
Provides a hands-on guide introducing IBM Security zSecure Admin and IBM Security zSecure Audit product features and user instructions for performing standard tasks and procedures. This manual is intended to help new users develop both a working knowledge of the basic IBM Security zSecure Admin and Audit for RACF system functionality and the ability to explore the other product features that are available.
- *IBM Security zSecure Admin and Audit for RACF User Reference Manual*, LC27-5639



Describes the product features for IBM Security zSecure Admin and IBM Security zSecure Audit. Includes user instructions to run the admin and audit features from ISPF panels. This manual also provides troubleshooting resources and instructions for installing the zSecure Collect for z/OS component. This publication is available to licensed users only.

- *IBM Security zSecure Admin and Audit for RACF Line Commands and Primary Commands Summary*, SC27-6581

Lists the line commands and primary (ISPF) commands with very brief explanations.

- *IBM Security zSecure Audit for ACF2 Getting Started*, GI13-2325

Describes the zSecure Audit for CA-ACF2 product features and provides user instructions for performing standard tasks and procedures such as analyzing Logon IDs, Rules, Global System Options, and running reports. The manual also includes a list of common terms for those not familiar with ACF2 terminology.

- *IBM Security zSecure Audit for ACF2 User Reference Manual*, LC27-5640

Explains how to use zSecure Audit for CA-ACF2 for mainframe security and monitoring. For new users, the guide provides an overview and conceptual information about using CA-ACF2 and accessing functionality from the ISPF panels. For advanced users, the manual provides detailed reference information, troubleshooting tips, information about using zSecure Collect for z/OS, and details about user interface setup. This publication is available to licensed users only.

- *IBM Security zSecure Audit for Top Secret User Reference Manual*, LC27-5641

Describes the zSecure Audit for CA-Top Secret product features and provides user instructions for performing standard tasks and procedures. This publication is available to licensed users only.

- *IBM Security zSecure CARLa Command Reference*, LC27-6533

Provides both general and advanced user reference information about the CARLa Auditing and Reporting Language (CARLa). CARLa is a programming language that is used to create security administrative and audit reports with zSecure. The *CARLa Command Reference* also provides detailed information about the NEWLIST types and fields for selecting data and creating zSecure reports. This publication is available to licensed users only.

- *IBM Security zSecure Alert User Reference Manual*, SC27-5642

Explains how to configure, use, and troubleshoot IBM Security zSecure Alert, a real-time monitor for z/OS systems protected with the Security Server (RACF) or CA-ACF2.

- *IBM Security zSecure Command Verifier User Guide*, SC27-5648

Explains how to install and use IBM Security zSecure Command Verifier to protect RACF mainframe security by enforcing RACF policies as RACF commands are entered.

- *IBM Security zSecure CICS Toolkit User Guide*, SC27-5649

Explains how to install and use IBM Security zSecure CICS® Toolkit to provide RACF administration capabilities from the CICS environment.

- *IBM Security zSecure Messages Guide*, SC27-5643

Provides a message reference for all IBM Security zSecure components. This guide describes the message types associated with each product or feature, and lists all IBM Security zSecure product messages and errors along with their severity levels sorted by message type. This guide also provides an explanation and any additional support information for each message.

- *IBM Security zSecure Visual Client Manual*, SC27-5647

Explains how to set up and use the IBM Security zSecure Visual Client to perform RACF administrative tasks from the Windows-based GUI.

- *IBM Security zSecure Documentation CD, LCD7-5373*

Supplies the IBM Security zSecure documentation, which contains the licensed and unlicensed product documentation. The *Documentation CD* is available as a downloadable .iso file; see Obtaining licensed publications to obtain this file.

Program directories are provided with the product tapes. You can also download the latest copies from Program Directories.

- *Program Directory: IBM Security zSecure CARLa-Driven Components, GI13-2277*

This program directory is intended for the systems programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of IBM Security zSecure CARLa-Driven Components: Admin, Audit, Visual, Alert, and the IBM Security zSecure Adapters for SIEM.

- *Program Directory: IBM Security zSecure CICS Toolkit, GI13-2282*

This program directory is intended for the systems programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of IBM Security zSecure CICS Toolkit.

- *Program Directory: IBM Security zSecure Command Verifier, GI13-2284*

This program directory is intended for the systems programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of IBM Security zSecure Command Verifier.

- *Program Directory: IBM Security zSecure Admin RACF-Offline, GI13-2278*

This program directory is intended for the systems programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of the IBM Security zSecure Admin RACF-Offline component of IBM Security zSecure Admin.

- Program Directories for the zSecure Administration, Auditing, and Compliance solutions:
  - 5655-N23: *Program Directory for IBM Security zSecure Administration, GI13-2292*
  - 5655-N24: *Program Directory for IBM Security zSecure Compliance and Auditing, GI13-2294*
  - 5655-N25: *Program Directory for IBM Security zSecure Compliance and Administration, GI13-2296*

## **IBM zSecure Manager for RACF z/VM library**

The IBM Security zSecure Manager for RACF z/VM library consists of unlicensed and licensed publications.

Unlicensed publications are available at the IBM Knowledge Center for IBM zSecure Manager for RACF z/VM. Licensed publications have a form number that starts with L; for example, LCD7-5373.

The IBM Security zSecure Manager for RACF z/VM library consists of the following publications:

- *IBM Security zSecure Manager for RACF z/VM Release Information*

For each product release, the Release Information topics provide information about new features and enhancements, incompatibility warnings, and

documentation update information. You can obtain the most current version of the release information from the zSecure for z/VM® documentation website at the IBM Knowledge Center for IBM zSecure Manager for RACF z/VM.

- *IBM Security zSecure Manager for RACF z/VM: Installation and Deployment Guide, SC27-4363*

Provides information about installing, configuring, and deploying the product.

- *IBM Security zSecure Manager for RACF z/VM User Reference Manual, LC27-4364*

Describes how to use the product interface and the RACF administration and audit functions. The manual provides reference information for the CARLa command language and the SELECT/LIST fields. It also provides troubleshooting resources and instructions for using the zSecure Collect component. This publication is available to licensed users only.

- *IBM Security zSecure CARLa Command Reference, LC27-6533*

Provides both general and advanced user reference information about the CARLa Auditing and Reporting Language (CARLa). CARLa is a programming language that is used to create security administrative and audit reports with zSecure. The *zSecure CARLa Command Reference* also provides detailed information about the NEWLIST types and fields for selecting data and creating zSecure reports. This publication is available to licensed users only.

- *IBM Security zSecure Documentation CD, LCD7-5373*

Supplies the IBM Security zSecure Manager for RACF z/VM documentation, which contains the licensed and unlicensed product documentation.

- *Program Directory for IBM zSecure Manager for RACF z/VM, GI11-7865*

To use the information in this publication effectively, you must have some prerequisite knowledge that you can obtain from the program directory. The *Program Directory for IBM zSecure Manager for RACF z/VM* is intended for the systems programmer responsible for installing, configuring, and deploying the product. It contains information about the materials and procedures associated with installing the software. The Program Directory is provided with the product tape. You can also download the latest copies from the IBM Knowledge Center for IBM zSecure Manager for RACF z/VM.

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## Related documentation

This section includes titles and links for information related to zSecure.

See:	For:
IBM Knowledge Center for IBM Security zSecure	All zSecure unlicensed documentation. For information about what is specific for a release, system requirements, incompatibilities and so on, select the version of your choice and <i>About This Release</i> ; see “What's new” and “Release notes”. To obtain the zSecure licensed documentation, see <i>Obtain licensed documentation</i> .
IBM Knowledge Center for z/OS	Information about z/OS. Table 2 on page x lists some of the most useful publications for use with zSecure. The IBM Knowledge Center includes the z/OS V2R3 Library.

See:	For:
z/OS Security Server RACF documentation	Information about z/OS Security Servers Resource Access Control Facility (RACF). More information about RACF and the types of events that can be reported using zSecure Admin and Audit. For information about the RACF commands, and the implications of the various keywords, see the <i>z/OS Security Server RACF Command Language Reference</i> and the <i>z/OS Security Server RACF Security Administrator's Guide</i> . You can find information about the various types of events that are recorded by RACF in the <i>z/OS Security Server RACF Auditor's Guide</i> .
QRadar DSM Configuration Guide	For more information about QRadar, see the IBM QRadar Security Intelligence Platform on IBM Knowledge Center.
IBM Knowledge Center for IBM Common Data Provider for z Systems	Information about Common Data Provider for z Systems (CDF).

For additional information about using IBM Security zSecure Visual, see these publications:

- *IBM Security zSecure CARLa-Driven Components Installation and Deployment Guide*, SC27-5638  
Provides reference information for installing, configuring, and deploying IBM Security zSecure Visual Server on a z/OS system.
- *IBM Security zSecure Admin and Audit for RACF User Reference Manual*, LC27-5639  
Provides information about the IBM Security zSecure Admin and Audit for RACF components and explains how to use the features from the ISPF panels. It also describes RACF administration and audit user documentation as well as troubleshooting resources and instructions for installing the zSecure Collect for z/OS component. This publication is available to licensed users only.
- *IBM Security zSecure CARLa Command Reference*, LC27-6533  
Provides both general and advanced user reference information about the CARLa Auditing and Reporting Language (CARLa) programming language, that can be used to create security administrative and audit reports with zSecure. This publication is available to licensed users only.

Table 2. Some of the most useful z/OS publications for use with zSecure

Manual Title	Order Number
<i>z/OS Communications Server: IP Configuration Guide</i>	SC27-3650
<i>z/OS Communications Server: IP Configuration Reference</i>	SC27-3651
<i>z/OS Cryptographic Services ICSF Administrator's Guide</i>	SC14-7506
<i>z/OS Cryptographic Services ICSF System Programmer's Guide</i>	SC14-7507
<i>z/OS Integrated Security Services Enterprise Identity Mapping (EIM) Guide and Reference</i>	SA23-2297
<i>z/OS ISPF Dialog Developer's Guide and Reference</i>	SC19-3619
<i>z/OS MVS Programming: Callable Services for High Level Languages</i>	SA23-1377
<i>z/OS MVS System Commands</i>	SA38-0666
<i>z/OS Security Server RACF Security Administrator's Guide</i>	SA23-2289
<i>z/OS Security Server RACF Auditor's Guide</i>	SA23-2290

Table 2. Some of the most useful z/OS publications for use with zSecure (continued)

Manual Title	Order Number
<i>z/OS Security Server RACF Command Language Reference</i>	SA23-2292
<i>z/OS Security Server RACF Macros and Interfaces</i>	SA23-2288
<i>z/OS Security Server RACF Messages and Codes</i>	SA23-2291
<i>z/OS Security Server RACF System Programmer's Guide</i>	SA23-2287
<i>z/Architecture® Principles of Operation</i>	SA22-7832

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## Accessibility

Accessibility features help users with a physical disability, such as restricted mobility or limited vision, to use software products successfully. With this product, you can use assistive technologies to hear and navigate the interface. You can also use the keyboard instead of the mouse to operate all features of the graphical user interface.

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## Technical training

For technical training information, see the IBM Training and Skills website at [www.ibm.com/training](http://www.ibm.com/training).

See the zSecure Training page in the zSecure public Wiki for information about available training for zSecure.

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## Support information

IBM Support provides assistance with code-related problems and routine, short duration installation or usage questions. You can directly access the IBM Software Support site at [www.ibm.com/software/support/probsub.html](http://www.ibm.com/software/support/probsub.html).

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## Statement of Good Security Practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, misappropriated, or misused or can result in damage to or misuse of your systems, including for use in attacks on others. No IT system or product should be considered completely secure and no single product, service, or security measure can be completely effective in preventing improper use or access. IBM systems, products, and services are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM DOES NOT WARRANT THAT ANY SYSTEMS, PRODUCTS, OR SERVICES ARE IMMUNE FROM, OR WILL MAKE YOUR ENTERPRISE IMMUNE FROM, THE MALICIOUS OR ILLEGAL CONDUCT OF ANY PARTY.



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## Chapter 1. IBM Security zSecure Visual setup and configuration

To use zSecure Visual on a client, you must:

- Install the client software on the system that you are using as the Visual client.
- Define the client on the mainframe where the Visual server is installed.
- Configure the client to connect to and establish a session with the Visual server.

For information about installing the zSecure Visual server on the mainframe, see the *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide*. For information about known problems and limitations, see Release Notes in *About This Release* on the IBM Knowledge Center for IBM Security zSecure V2.3.1 at [www.ibm.com/support/knowledgecenter/SS2RWS\\_2.3.1/com.ibm.zsecure.doc\\_2.3.1/welcome.html](http://www.ibm.com/support/knowledgecenter/SS2RWS_2.3.1/com.ibm.zsecure.doc_2.3.1/welcome.html).

Installation and configuration are described in the following topics:

- “Prerequisites for installation”
- “Installing IBM Security zSecure Visual” on page 2
- “IBM Security zSecure Visual maintenance” on page 4
- “Upgrading IBM Security zSecure Visual” on page 5
- “Configuring IBM Security zSecure Visual” on page 6
- “Automated setup and configuration” on page 10

---

### Release information

The zSecure release information includes details on new features and enhancements, incompatibility warnings, and documentation update information.

You can find the latest versions of “What's New” and “Release Notes” in *About This Release* on the IBM Knowledge Center for IBM Security zSecure V2.3.1 at: [www.ibm.com/support/knowledgecenter/SS2RWS\\_2.3.1/com.ibm.zsecure.doc\\_2.3.1/welcome.html](http://www.ibm.com/support/knowledgecenter/SS2RWS_2.3.1/com.ibm.zsecure.doc_2.3.1/welcome.html).

---

### Prerequisites for installation

Before you install the zSecure Visual client, ensure that the system meets these hardware and software requirements:

#### Hardware requirements

- 1 GHz processor or greater
- 512 MB RAM or greater
- Minimum 350 MB disk space
- Minimum S-VGA display
- TCP/IP adapter for connection to the mainframe
- Minimum disk space for .NET Framework Version 4 client:
  - 32-bit: 600 MB
  - 64-bit: 1.5 GB

#### Software requirements

- Microsoft Windows 7, Windows 8, Windows 10, Windows Server 2008R2, Windows Server 2012, or Windows Server 2016  
You can check the operating system level when you start the workstation.
- To work with the IBM Knowledge Center Help System, use one of the following browsers: Internet Explorer 9+, Mozilla Firefox 17+, Google Chrome 20+, or Microsoft Edge 37+. To ensure that you can use all the functions of the IBM Knowledge Center Help System:
  - Enable cookies and JavaScript in the browser.
  - Disable the blocking of pop-up windows in the browser.
- To connect to the zSecure Visual server on the mainframe, you must configure:
  - TCP/IP network that provides a connection to the mainframe.
  - Name of the localhost where the client is installed.

To connect to the zSecure Visual server on the mainframe, install and configure this software on the mainframe:

- Supported release of z/OS, up to V2R3
- RACF Security Server
- TCP/IP
- IBM Security zSecure Visual 2.3.1 server

After installation, you must create a server definition on the client to connect to the mainframe. Determine these settings to prepare for the server definition:

- Server IP address or name
- Server TCP port number
- Client ID
- Initial password

You can obtain this information from your system administrator.

---

## Installing IBM Security zSecure Visual

Use this task to install the Visual client component.

### About this task

You can install the new version of the IBM Security zSecure Visual client *only once* on a workstation. You can upgrade from a previously installed version of the client, for example, version 2.3.0. See “Upgrading IBM Security zSecure Visual” on page 5 and “Compatibility of IBM Security zSecure Visual and zSecure components” in *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide* for guidelines on upgrading the client.

You cannot install the new Visual client multiple times on the same workstation but you can define multiple Visual server definitions in one client and run multiple Visual client instances concurrently. See “Multiple Visual server definitions” on page 9.

The zSecure Visual client software for Windows is available on CD. The CD also contains the zSecure Visual client manual in PDF format.



**Note:** Information on installing and configuring the zSecure Visual server is in the *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide*.

You can either install a complete version or a custom version of the zSecure Visual client program.

The Complete version of the installation program installs the Java Runtime. If you want to continue using your current version of the Java Runtime, use the Custom version of the installation and specify to bypass installing the Java Runtime.

This section describes how to complete each type of installation.

## Procedure

Follow these steps to install the Visual client program:

1. Ensure that the system where you are installing the Visual client meets the hardware and software requirements. Review the requirements in “Prerequisites for installation” on page 1.
2. Take one of the following actions to start the installation:
  - *Install directly from CD.*
    - a. Insert the CD in the system where you are installing the Visual client. The installation starts automatically after inserting the CD.
    - b. If the automatic installation fails or is canceled, start the installation by running **zSecureVisualLauncher.exe** from the root directory.
  - *Install from a LAN directory.*
    - a. Specify the network location of the CD image.
    - b. If the installation directory contains one or more spaces, you must specify the filepath in quotation marks, for example:  
C:\installation dir\visual231\DISK1\setup.exe
3. Click **Next** in the welcome window.
4. Accept the license agreement and click **Next**.

**Note:** You can print the terms of the license agreement by clicking **Print**. The license files are in the \License subdirectory. You can view the license in English and the locale language configured on the target system, but other languages might not be viewable.

5. Select one of the following options and click **Next**.

### Complete

Installs all program files in the default directory. This option is for normal use and uses more disk space.

### Custom

Provides two options for advanced users.

- *If you do not want to install the program files in the default directory:*
  - a. Click **Change...** to specify a different installation directory than the default directory (C:\Program Files (X86)\IBM\Security zSecure Visual\2.3.1).

**Attention:** If the Windows system folder is not located on the destination drive, but you know the destination drive has adequate space to receive the files, the following warning could still occur when you click **Next**:

There is not enough space to install these option(s).  
Please free some disk space or modify your selections.

This warning refers to the drive that contains the Windows system folder. If it occurs, use the Feature description area in the Custom Setup dialog to determine how much space is required by the selected components and ensure that the drive containing the Windows system folder also has adequate space.

- b. Browse to the directory where you want to install the files or specify the complete filepath in the **Folder name** field.

**Note:** If you are upgrading a previous version of the Visual client, each version must reside in its own folder; ensure that the version number is shown in the folder title so you can distinguish between different versions.

- c. Click **OK** to return to the Custom Setup window.
- *If you do not want to install the help files associated with the product (for example, you might have limited space on your destination drive):*
  - a. Click **Help Files > This feature will not be available**.

**Note:** The first two options (beginning with **This Feature...**) perform the same installation. All help files are installed in both cases.

- b. Click **Space** to view the storage requirements for the help files.
- c. Click **OK** to return to the Custom Setup window.
6. Click **Install** to start the installation.
7. Click **Finish** to exit the installation program or click **Launch zSecure Visual** to start the Visual client and set up the client to connect to a Visual server.

## What to do next

Before you can use zSecure Visual, you must configure it. You can manually or automatically configure it. For more information about configuration, see “Configuring IBM Security zSecure Visual” on page 6.

If the installation does not complete without errors, you can examine the log file for information to help troubleshoot the causes. The information is detailed and intended for expert use.

---

## IBM Security zSecure Visual maintenance

An administrator uses these maintenance topics to uninstall, modify, and repair IBM Security zSecure Visual.

You can uninstall, modify, and repair IBM Security zSecure Visual. This section provides the procedures to perform these tasks.

A fix pack is provided as a zip file. Installing it effectively overwrites the existing instance of the Client.

## Uninstalling IBM Security zSecure Visual

The administrator uses this task to uninstall IBM Security zSecure Visual.

## Procedure

To completely remove IBM Security zSecure Visual and all of its components, perform these steps:

1. Go to the Control Panel.
2. Select **Programs and Features**.
3. Select **IBM Security zSecure Visual 2.3.1**.
4. When the uninstall program detects a shared file, you get a warning message. Click **Yes** to continue. Maintenance starts to remove IBM Security zSecure Visual.

When Maintenance is complete, the Maintenance Complete window is displayed.

## Modifying IBM Security zSecure Visual

The administrator uses this task to change selected installed components in IBM Security zSecure Visual.

### About this task

If you are an advanced user, you can modify your Visual client installation to add new program components or remove currently installed components.

## Procedure

Perform these steps to change a Visual client installation:

1. Start Control Panel and select **Programs and Features**.
2. Right-click **IBM Security zSecure Visual 2.3.1** and select **Modify**.
3. In the Select Components window, select the components to be modified.
4. Click **Next** to modify your installation. The Setup Status dialog is displayed to monitor the setup process. When Maintenance has finished the modifications, it ends with the Maintenance complete screen.

## Repairing IBM Security zSecure Visual

The administrator uses this task to reinstall all program components for IBM Security zSecure Visual.

### About this task

If you find damaged files, reinstall all program components. To reinstall all program components, perform these steps:

## Procedure

1. Start Control Panel and select **Programs and Features**.
2. Right-click **IBM Security zSecure Visual 2.3.1** and select **Repair**.
3. After the repair process completes, click **Finish**.

---

## Upgrading IBM Security zSecure Visual

After you upgrade the zSecure Visual server, you can upgrade the zSecure Visual client software on the client machines and connect to the new server instance.

## Before you begin

Contact your Visual Server administrator for the following information:

- Server name/IP address
- Server TCP port
- Recommended zSecure Visual Client version

## About this task

You can upgrade IBM Security zSecure Visual using the method described in “Installing IBM Security zSecure Visual” on page 2. The new installation does not contain any server definitions. You can copy the server definitions from the previous version, as described in “Copy function for multiple server definitions” on page 10. You can also use the automated process, see “Automate upgrade path examples” on page 15.

This procedure creates a new server definition in the new client that uses a copy of the old certificate and points to the new server. Copying the old certificate enables you to perform the upgrade process without having to create a new initial password for the client.

## Procedure

Follow these steps to upgrade zSecure Visual client software.

1. Install the new client software.
2. Start the client.
3. Update the configuration to create the server definition:
  - a. From the Visual client menu, select **File > Configure > Copy**.
  - b. On the Copy configuration panel, update the Visual server **IP address** or **name** and **TCP port** to point to the location of the upgraded server.
  - c. Click **Test Connection** to verify the connection.
  - d. Click **OK** to save the changes and create the new server definition.

---

## Configuring IBM Security zSecure Visual

Use the configuration task to define a Visual server to a Visual client.

## About this task

You configure IBM Security zSecure Visual by defining the Visual server to the client and by defining the Visual client to the Visual server. This topic describes how to define the Visual server to the client. See “Maintaining client definitions” on page 151 for information on adding client definitions to the Visual server.

The location where Visual server definitions are stored depends on the selection made in the **View -> Options menu**.

If the **Save server definitions in per-user folder** check box is not selected, then the server definitions are stored in the ProgramData folder C:\ProgramData\IBM\Security zSecure Visual\2.3.1\Servers; this is the default location. The ProgramData folder contains application data for all users of the system. The Visual server definitions are available for all users who log on to that system.

If the **Save server definitions in per-user folder** check box is selected, then the server definitions are stored in the user-level AppData folder, for example: C:\Users\User1\AppData\Roaming\IBM\Security zSecure Visual\2.3.1\Servers. The AppData folder contains application data for a specific user of the system. The Visual server definitions are available for this user only. Server definitions that are stored in the AppData folder become part of the roaming profile for that user. Therefore, the same user can use the server definitions in multiple systems in a networked environment without having to configure every system.

## Procedure

1. If no servers have been defined to the client, you enter the configuration part of the program automatically after you start the program. Otherwise you can select **File > Configure** from the main menu.

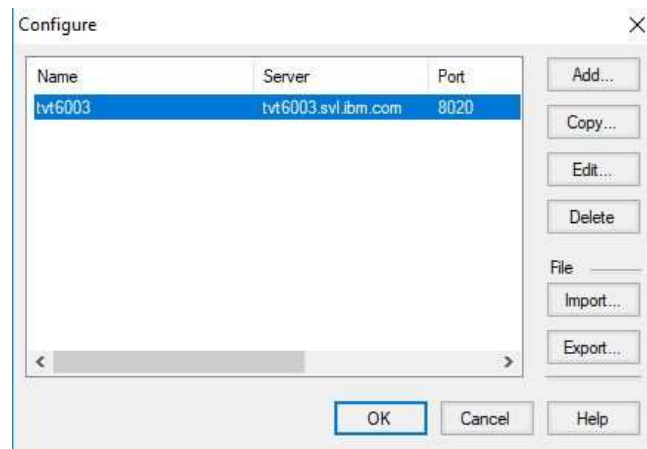


Figure 1. Configure dialog

The configuration window displays all defined servers and enables you to add, copy, edit, and delete server definitions. When "Edit required" is displayed in the list, you must complete the corresponding server definition before you can use the server.

With the *Import* function, you can read server definition information from a configuration file prepared for you. With *Export*, you can create configuration files, which enables automatic setup and configuration.

2. After adding, editing or deleting one or multiple server definitions, click **OK** to apply all changes. A status window is displayed, showing the steps performed to configure the program.

## Server definition parameters

Use the **Add system** dialog to create and edit a Visual Server definition in the Visual client.

A server definition contains the parameters listed in this section. After completing the fields, click **OK** to accept them. You can use **Test Connection** to verify if the server is active. You can leave all fields blank except **Name** and complete the definition in another run of IBM Security zSecure Visual.

Figure 2. Server definition dialog

To use the server, you need a certificate. When you enter the correct initial password, you get the certificate.

**Attention:** When you obtain a new certificate, ensure that the clock of your local workstation is synchronized with the mainframe server clock. Out-of-synch clocks can cause errors.

Refer to this list for information about the server definition parameters:

**Name** This arbitrary name refers to this specific server definition. It is displayed in the **Logon** dialog. The name must be unique on the PC. The name must be a valid filename for Windows, because a subdirectory is created to store files related to the server.

**HelpContact (optional)**

Enter the name of a person, department name, or anything else that informs the user who to contact in case of trouble. If the field is nonblank it is displayed in error dialogs as follows: Error 3: Time Out. Contact *helpcontact*.

**Client ID**

This number uniquely identifies the client to its server. It is always 12.1.*n*, where *n* is an integer between 2 - 2,147,483,647. Typically these IDs are defined on the server. Before you can use a client, you must ask for its ID, and enter it here.

**Server IP address or name**

The IP address or the fully qualified host name of the server.

**Server Port**

The port that the server agent listens to. A port number is a number 0 - 65535. If you are configuring multiple server definitions to connect to multiple zSecure server instances, see "Multiple Visual server definitions" on page 9 for guidelines on specifying port values.

### Local port (optional)

The client agent uses two port numbers to communicate with the server and with the user interface. By default these port numbers are the server port number and the server port number + 1.

If there are two servers with equal port numbers, port conflicts occur. With this field, you can override the default local port number. The user interface uses local port number + 1. If you are configuring multiple server definitions to connect to multiple zSecure Server instances, see “Multiple Visual server definitions” for guidelines on specifying port values.

If your organization uses Cisco Jabber® and it is started before zSecure Visual, it claims local port 8001. Although **Test connection** for the zSecure Visual server is successful, the full login attempt fails because the (default) ports 8000 and 8001 cannot be used. Therefore, either start zSecure Visual first or specify a local port other than 8000 and 8001.

### Initial password

A 10 digit hex password required to obtain a new certificate. The certificate is used for encryption. Usually the initial password can be obtained from your mainframe system administrator.

### Test connection

To verify if the Server IP address or fully qualified host name and the Server Port are correct, click **Test Connection**. After some time Connect succeeded or Connect failed is displayed in the status field.

#### Note:

- Connection fails if the server parameters are correct but the server is not running.
- Although the connection is successful, the full login attempt fails if Cisco Jabber was started before zSecure Visual and no local port other than 8000 and 8001 was specified. See Local port (optional).

## Multiple Visual server definitions

Use these guidelines to plan for the implementation of multiple Visual Server definitions.

You *cannot* install the new Visual client multiple times on the same workstation, but you can define multiple Visual server definitions in one client. You can run multiple Visual client instances (sessions) concurrently. You can use each session to administer different RACF databases, based on the server configuration that you select when you log on to a Visual server.

If you configure the zSecure Server to service multiple nodes, the Visual server using that zSecure Server can administer two or more nodes and RACF databases in a single session. You must run the client in multi-system mode to administer multiple nodes (and RACF databases) in a single session. See “Selecting to work locally or in a multi-system environment” on page 18.

To administer multiple Visual servers concurrently, you must ensure that a unique port number is used by each Visual server. For example, if you create two or more Visual server definitions using server TCP 8000, the Visual client tries to use the same local port number (base port+1=8001) for the traffic coming from each server. This will cause port conflict problems and must be avoided. Here are two ways you can configure multiple Visual servers to avoid a port-use conflict:

- Run the Visual servers on different port numbers. For example, if server X uses port 8000, server Y uses port 8010, and server Z uses port 8020, the Visual client automatically uses the local ports 8001, 8011, and 8021, respectively, to communicate with the three servers.
- If the Visual servers are already running using the same port number, for example, port 8000, you can use the **Local port** field in the server definition dialog to separate the traffic coming from the different servers. For example, you can leave the **Local port** field blank in the server definition for server X, which results in that server using port 8001. For server Y, you can specify local port number 8010, and for server Z specify port number 8020.

## Copy function for multiple server definitions

Use the Copy function to create multiple Visual server definitions.

A client needs a definition for each server to access, see “Server definition parameters” on page 7. However, it is not always necessary to enter the whole definition from scratch. You can copy server definitions between different versions of IBM Security zSecure Visual. Avoid port conflicts when doing so. If needed, consult your system administrator.

The Copy function shows you an exact copy of the existing server definition. Some of the fields in the definition are disabled so that you cannot change them.

---

## Automated setup and configuration

You can use automated setup and configuration for an initial installation of the Visual client.

### Configuration file

Use a configuration file to distribute configuration parameters for zSecure Visual.

With the configuration file, you do not have to type the same information again. You write parameters to a file. The target computers read it during their setup and configuration.

#### Creating a configuration file

Use zSecure Visual to create a configuration file.

#### About this task

When you create the configuration file, the changes do not affect your PC. All the server and setup data options you configure are saved to a file.

#### Procedure

To create a configuration file, perform these steps:

1. Select **File > Configure** from the main menu to enter the configure dialog.
2. Click **Export** to switch to Export mode. The following window displays:



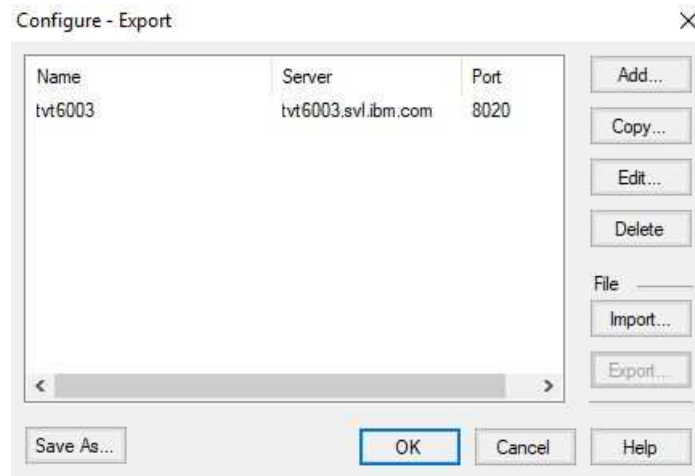


Figure 3. Configuration dialog in export mode

**Note:** To prevent an accidental switch in or out of Export mode, the **Export** button is disabled after any of these actions: **Add**, **Edit**, **Delete** or **Import**.

From this point, all changes in the configuration do not affect your PC; but the resulting server and setup data can be written to a configuration file by clicking **OK**. You can save an intermediate state by using **Save As**.

3. Specify manual or automated configuration parameters:

#### Manual setup

Use the **Add**, **Copy**, **Edit**, **Delete**, and **Import** functions to specify the server data.

In general, you do not save all servers defined on your PC in the file. You can delete all servers that you do not want to include and clear the fields that you do not want to specify, such as Client ID.

4. To save an interim version of the configuration file at any point in the configuration process, click **Save As** and specify the configuration file name.
5. To save the configuration file, click **OK**.

### Configuration file layout

Use the configuration file layout parameter descriptions to add contents to a configuration file.

The settings that define a server are in a Server section. A configuration file can contain more than one Server section.

#### NAME=server\_definition\_name

Specifies the server definition name.

#### CLIENTID=12.1.n

Specifies the Client ID, where *n* is an integer between 2 - 2,147,483,647.

#### SERVERIP=Servername

Specifies the IP address or hostname of the server.

#### SERVERPORT=8000

Server IP port.

#### HELPCONTACT=System support

Specifies the help contact, as shown in the error dialogs.

## Running a configuration file on the target machine

You can run the **setup** command to configure zSecure Visual on the system.

### Procedure

- On the target machine, run setup with the configuration filename as a command-line argument:  
*<full path>\setup /s /v"CMDVISUAL=<full path to configuration file>"*

#### Attention:

- You must specify the CMDVISUAL option in uppercase.
- IBM Security zSecure Visual can find the configuration file only if you specify the full path.
- When installation is finished, setup starts IBM Security zSecure Visual with the configuration file as an input parameter.

## Updating server definitions from a configuration file

Run the **c2racvn** command to update Visual server definitions on the system.

### Procedure

- On the target machine, run IBM Security zSecure Visual with the configuration filename as a command-line argument:  
*<full path>\c2racvn <full path to configuration file>*
- The server definitions are updated according to the parameters found in the configuration file. After this update, the program exits directly.

## Configuration limitations

Use the configuration limitation guidelines to create zSecure Visual configuration files.

Note these configuration limitations:

### Storing initial passwords in configuration files

For security reasons, initial passwords cannot be saved to configuration files.

### Renaming a server on the target machine

You cannot rename a system on the target machine, since the old name cannot be written to the configuration file.

### Same version needed for creating and using configuration files

IBM Security zSecure Visual can only read configuration files that were created using the same version. If the versions differ, no server definitions are copied.

## Modifying an existing configuration file

The administrator uses this task to change a zSecure Visual configuration file.

### About this task

You can modify an existing configuration file. See “Notes” on page 13 for guidelines on changing or using configuration files.

## Procedure

To change an existing configuration file, follow these steps:

1. Switch to **Export** mode.
2. Delete all servers.
3. Import the configuration file to be edited.
4. Edit the data.
5. Save it with the same name.

## Notes

The administrator uses these guidelines to create and change zSecure Visual configuration files.

### Using a configuration file to copy a certificate

You can copy a certificate using a configuration file. When you prepare the configuration file, perform the copy as if it is on your system. The copying is performed on the target machine when it reads the configuration file. To copy a certificate that is not on the machine where you are making the configuration file, you can enter the server name and version directly.

### Blank fields in configuration files

Server parameters that you leave blank are not stored in the configuration file. If a server with the same name exists on the target machine, blank fields are left unchanged.

### Client IDs in configuration files

The target computers must have unique Client IDs. You cannot specify a Client ID in a configuration file that is used by multiple target computers. If you specify a dot in the Client ID field after 12.1, the target machine replaces the dot by the Client ID of its other server definitions. This only works if all its other server definitions contain the same Client ID.

### Modifying an existing configuration file

See “Modifying an existing configuration file” on page 12 for the steps.

## Configuration file sample tasks

Use these sample tasks to implement configuration files for zSecure Visual.

## Procedure

1. Example 1: Prepare automated setup and configuration with one server for multiple clients
  - a. Start IBM Security zSecure Visual.
  - b. Select **File > Configure** from the main menu.
  - c. Select **Export** and confirm you are going to prepare configuration files.
  - d. Edit the server definitions using the **Add, Edit, and Delete** functions until you have only the server definition you want to configure on the target machines.

Specify only **Name**, **HelpContact**, **Server IP address** or **name** and **Server Port**. Leave the **Client ID** field blank, because this field needs to be unique for each target machine. In this example, **Local Host** and **Local Port** are also left blank.
  - e. Click **OK** and save the configuration file as `setup2.cfg`. Now the configuration file is finished.
  - f. On each target machine run this command:  
`c2racvn setup2.cfg`

- g. After completing these steps, specify the correct Client ID and Initial Password on the target machine.
2. Example 2: Add a new server to multiple clients
  - a. Start IBM Security zSecure Visual.
  - b. Select **File > Configure** from the main menu.
  - c. Select **Export** and confirm you are going to prepare configuration files.
  - d. Edit the server definitions using the **Add, Edit, and Delete** functions until you only have the server definition you want to configure on the target machines.  
Specify only **Name, HelpContact, Server IP address** or **name** and **Server Port**. Leave the **Client ID** field blank, because this field needs to be unique for each target machine. In this example, **Local Host** and **Local Port** are also left blank.
  - e. Click **OK** and save the configuration file as `setup2.cfg`. Now the configuration file is finished.
  - f. On each target machine run this command:  
`c2racvn setup2.cfg`
  - g. After completing these steps, specify the correct Initial Password on the target machine to obtain a certificate.

## Silent installation

Follow these guidelines to plan a silent installation of zSecure Visual.

A *silent installation* is an installation that is performed without any user interaction.

For the silent installation to succeed, the initial machine and target machines must have similar configurations. Any deviation that can influence the setup procedure, such as the existence or nonexistence of the target folder to install, can cause the installation to fail.

Silent installation assumes that the accepted license agreement recorded from the initial installation applies to all target machines. Therefore, the silent installation copies the license files to the designated directory on the target systems and creates the status file without user interaction.

To help troubleshoot any silent installation problems, you must log the installation process. See “Log file for silent installation”

### Log file for silent installation

You can specify the log file location for a silent installation of zSecure Visual. This section describes how to specify the log file.

A log file is created for each silent installation. If you do not specify the location, the log file is created as `setup.log` in the folder that contains `zSecureVisualSetup.exe`.

To specify the log file location, use this option:

`-f2<full path to log file>`

For diagnostics, you can create a detailed log with this command-line option:

`/g<full path to detail log>`

The detailed log contains the steps of the installation process, including any error messages. This information must provide pointers to solve what went wrong during the installation.

**Attention:** Take care to avoid any filename conflicts with the setup log!

### Examples of silent installation commands

To perform a silent installation, run the setup program with the appropriate command line options. This section provides some examples.

These examples use standard Microsoft command line parameters with the InstallShield setup command. Only the CMDVISUAL property is specific to the zSecure Visual client application.

Specify command-line options that require a parameter with no space between the option and its parameter. For example, this command is valid:

```
zSecureVisualSetup.exe /v"INSTALLDIR=c:\MyDirectory"
```

This command is not valid:

```
zSecureVisualSetup.exe /v "INSTALLDIR=c:\MyDirectory"
```

Put quotation marks around the parameters of an option only if the parameter contains spaces.

If a path in a parameter contains spaces, you might need to use quotation marks in quotation marks, as in this example:

```
zSecureVisualSetup.exe /v"INSTALLDIR=\"c:\My Directory\""
```

#### Silent installation with default settings

```
zSecureVisualSetup.exe /s /v"/qn"
```

#### Silent installation with a different target directory

```
zSecureVisualSetup.exe /s /v"/qn INSTALLDIR=<c:\target_directory>"
```

#### Silent installation with a different target directory and a configuration file

```
zSecureVisualSetup.exe /s /v"/qn CMDVISUAL=C:\temp\setup1.cfg  
INSTALLDIR=<c:\target_directory>"
```

#### Silent installation with a different target directory and a log file

```
zSecureVisualSetup.exe /s /v"/l*v c:\test.log  
"INSTALLDIR=<c:\target_directory> /qb"
```

#### Silent installation with default settings and no reboot

```
zSecureVisualSetup.exe /s /v"/qn /norestart "
```

## Automate upgrade path examples

You can automate the upgrading of zSecure Visual with the /COPYSERVERS setup command-line option.

After an initial installation, IBM Security zSecure Visual needs some configuration before the user can log on to a server. For an upgrade, it can be automated with the /COPYSERVERS setup command-line option. Any server definition already defined on the system is replicated to the newly installed version, so they are ready for use immediately after installation.

**Examples:**

The following examples:

- Apply only to an interactive installation.
- Require you to specify the COPYSERVERS option in uppercase.
- Copies only the most recent server definitions.

**Note:** If the machine contains more than one version of zSecure Visual, the server definitions of the most recent version are copied. Older versions are skipped.

**Example 1:**

```
zSecureVisualSetup.exe /s /v"/qn CMDVISUAL=/COPYSERVERS"
```

**Example 2:**

The following example specifies to uninstall the existing version of the Visual Client before installing the new version.

```
zSecureVisualSetup.exe /x /s /v"/qn CMDVISUAL=/COPYSERVERS"
```

---

## Chapter 2. IBM Security zSecure Visual customization and primary tasks

IBM Security zSecure Visual maintains an IBM RACF security database from a Windows workstation. Some customization and primary tasks are described in the following topics.

“Release information” on page 1

“Selecting to work locally or in a multi-system environment” on page 18

To limit or expand the scope of your task, you can work with users and resources on the local RACF database or with users and resources that are defined in multiple nodes across multiple systems.

“Logging on” on page 19

You log on to the Visual client so that the program can determine your scope of operation.

“Selecting available nodes” on page 20

If you log on in multi-system mode, the zSecure server is queried for a list of available nodes. The nodes that are defined in the zSecure server are made available to the Visual client. Select the zSecure and RACF Remote Sharing Facility (RRSF) nodes that you want to work with.

“An example first task” on page 21

As an example first task, you can use the user interface to perform various operations related to users, groups, and resources.

“Logging off” on page 22

You log off the Visual client after completing your tasks.

“Exiting” on page 22

You exit the Visual client after logging off the Visual Server.

“Turning off the server definition name” on page 22

You can create a simple file and entry to turn off the displaying of the server definition name in the Visual client.

“Viewing the log files” on page 22

You can view logged information about the Visual application in the cesys and ceaud files.

“Using the Communication window” on page 24

Use the Communication window to view information exchanged between the zSecure Visual client and the components and programs on the mainframe side.

“Setting display preferences” on page 25

Use the **Option** dialog to specify how you want to display IBM Security zSecure Visual.

“Setting interface options according to your access level” on page 27

You can adjust the interface to display specific groups of options, according to the access level you are assigned.

“Setting the date format” on page 29

You can define your own format or select a predefined format to display dates.

“Drag and drop function” on page 30

You can use the drag and drop function to change users or connects in the RACF database.

“Copy and paste function” on page 31

You can use the **Copy**, **Paste**, and **Paste Special** functions to perform various copy, merge, and move tasks.

“Toolbar buttons” on page 31

You can use the Visual client toolbar buttons to show the most frequently used menu options.

“Right mouse button” on page 31

You can right-click a row to display **Navigate** and **Action** options.

“Naming conventions” on page 31

Use these guidelines to create names for users and groups.

“Changing column sequences” on page 31

You can use click and drag to change the arrangement of a table column or to change the border of a column.

“Site-specific columns and fields” on page 32

If configured, you can view information that is specific to your organization.

“Saving and exporting printable data” on page 32

You can save a printable table in CSV format and export the communication window to RTF format.

“Printing” on page 32

You can print data and see print previews in the Visual client.

“Previewing a print file” on page 33

You can preview and change the layout of a print file in the Visual client.

“Tables available for printing” on page 33

You can print these tables and lists in the Visual client.

“Server Information dialog” on page 34

The **Server Information** dialog displays the information about the server to which you are currently logged on.

“Display of the ? character” on page 34

The question mark (?) is displayed if a field is not within the scope of the user.

---

## Selecting to work locally or in a multi-system environment

To limit or expand the scope of your task, you can work with users and resources on the local RACF database or with users and resources that are defined in multiple nodes across multiple systems.

### Before you begin

To work with users and resources in a multi-system environment, the administrator must first complete these tasks:

1. Configure the zSecure server and the Visual server to manage multiple RACF databases on multiple systems. See the *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide*.
2. Create and verify a server definition on the Visual client that connects to the Visual server. See “Configuring IBM Security zSecure Visual” on page 6.

### Procedure

- To work locally, ensure that the **Use zSecure Server for multi-system services** option is *not* selected in the Options dialog of the Visual client. By default, this option is not selected. When operating in local mode, the Visual client does not request node details from the zSecure server.
- To work with users and resources in a multi-system environment, set the Visual client to operate in multi-system mode. Use these steps to specify multi-system mode:
  1. Select **Start > Programs > Security zSecure Visual** to start the Visual client.



2. Select **View > Options** to start the Options dialog (see “Setting display preferences” on page 25).
3. Select **Use zSecure Server for multi-system services > OK**.

You are prompted to accept the list of systems that are configured for the multi-system environment or to specify the systems to which your actions will apply for the session.

**Note:** If the client cannot establish a session with the zSecure server, the client issues a message indicating that the server is not active. It begins operation in local mode.

---

## Logging on

You log on to the Visual client so that the program can determine your scope of operation.

### About this task

After starting the program you must logon to RACF to determine your access to certain commands, as CKG profiles in the RACF database control your access levels. Based on responses from the CKGRACF program on the mainframe, the names of the schedules you can work with are loaded and certain features are disabled. Next, a list of all classes defined on the complex is presented.

### Procedure

Follow these steps to logon to RACF on the mainframe:

1. Select **File > Logon** from the main menu to access IBM Security zSecure Visual, or click **Logon** from the toolbar. The **Logon to RACF** dialog is displayed.

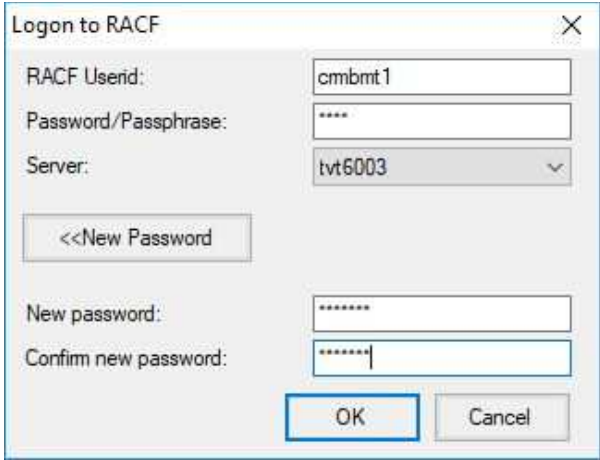


Figure 4. Logon dialog

2. Enter your mainframe user ID and password or passphrase.  
Or select **New Password/Passphrase** to change your password or passphrase.
3. Confirm your new password or passphrase.
4. Click **OK** to continue.

**Note:** If this logon is your first logon to the mainframe, it takes time to set up a cryptographically secure communication channel.

5. If you log on in multi-system mode, you are prompted to select the nodes that you want to work with. See “Selecting available nodes”
6. After a successful logon, the **Find** dialog is displayed. Use the **Find** dialog to display or change users, groups, or resources. See “An example first task” on page 21.

## Selecting available nodes

If you log on in multi-system mode, the zSecure server is queried for a list of available nodes. The nodes that are defined in the zSecure server are made available to the Visual client. Select the zSecure and RACF Remote Sharing Facility (RRSF) nodes that you want to work with.

The list of nodes includes zSecure nodes and RRSF nodes, which are displayed in the **Node selection** dialog. Use these guidelines to help determine which nodes you want to work with:

- You must select at least one zSecure node to continue. The Visual client sends your request to the server, which directs it to the zSecure node. The node returns data from the associated RACF database. After the client receives data, it can send requests to the zSecure node to change the data.
- Nodes that you can operate on only as zSecure nodes are listed only in the **zSecure Nodes** column.
- Nodes that you can operate on only as RRSF nodes are listed in the **RRSF Nodes** column.
- Nodes that are listed in the same row under the **zSecure Nodes** column and the **RRSF Nodes** column are available in both environments.
- The nodes you select become your list of preferred nodes. You change your preferred zSecure and RRSF nodes using the Select Nodes dialog (see “Select Nodes dialog: multi-system options” on page 36). You can also change your preferred list of zSecure nodes by selecting >>**Advanced** in the **Find** dialog.
- Operations that you perform on RRSF nodes are not verified for successful completion. You can send edit requests to a RACF database through an RRSF node. However, the client does not receive feedback on the final outcome of the action. Consequently, the software assumes that RRSF operations are successful.

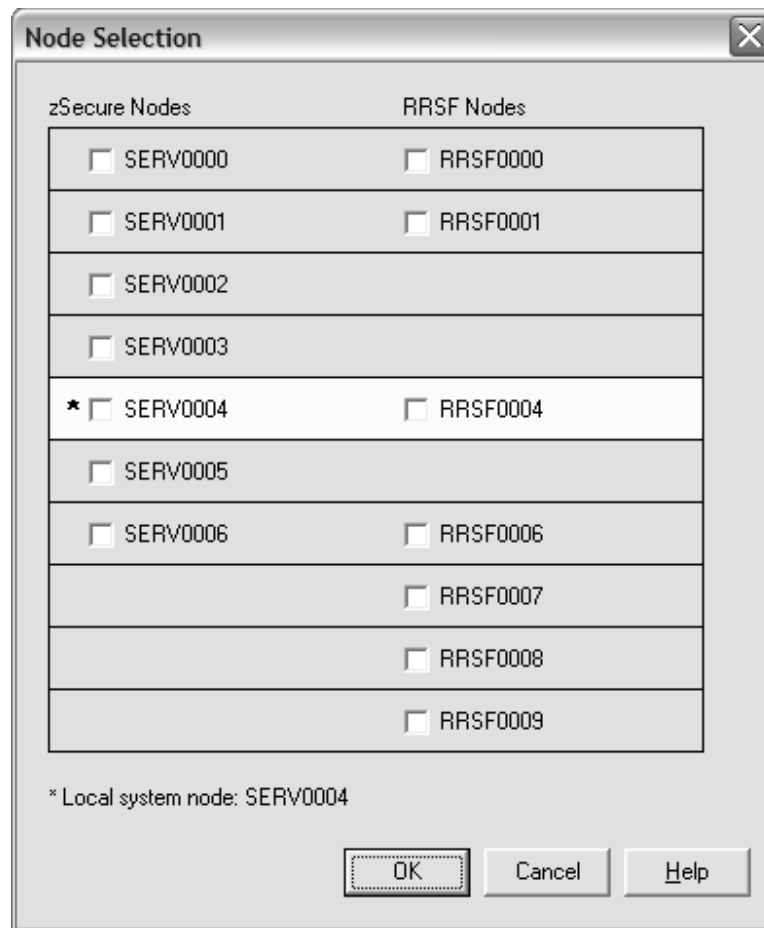


Figure 5. Node Selection dialog

## An example first task

As an example first task, you can use the user interface to perform various operations related to users, groups, and resources.

### About this task

The following procedure describes an example task that shows how to use the user interface to view the connections between users and groups. See Chapter 6, "Connect management," on page 97 for more information on performing connect tasks.

### Procedure

1. In the **Find** dialog window, select **User** or **Group** from the **Class** drop-down list.
2. Type a user or group in the **Search** field and click **OK**. A search results window is displayed.
3. To view what the connections are for the selected user or group, follow these steps:
  - a. Select a specific user or group from the search results window.

- b. Select **Navigate > Connects**. A Connects window displays all groups or users related to this specific user or group.
- c. Double-click any of the user or group in the **Connects** window to see its properties.

---

## Logging off

You log off the Visual client after completing your tasks.

### Procedure

Select **File > Logoff** from the main menu to log off IBM Security zSecure Visual.

---

## Exiting

You exit the Visual client after logging off the Visual Server.

### Procedure

1. To exit IBM Security zSecure Visual, select **File > Exit** from the main menu.
2. Specify whether the program prompts for a confirmation on exit in the **Option** dialog.

For more information, see the section “Setting display preferences” on page 25.  
If you press **Exit** while you are still on IBM Security zSecure Visual, the program logs off before exiting.

---

## Turning off the server definition name

You can create a simple file and entry to turn off the displaying of the server definition name in the Visual client.

### About this task

The IBM Security zSecure Visual client includes the server definition name in the application title. The server definition name is enclosed between square brackets. By default, the application turns on the server name definition during logon and turns it off during logoff, but you can turn off this feature.

### Procedure

To turn off the server definition name in the application title, follow these steps:

1. Go to the application folder. The default directory is C:\Program Files (x86)\IBM\Security zSecure Visual\2.3.1\.
2. Create a text file named c2racvn.cfg.
3. Add this option: ShowHost=No
4. Save the file.
5. Exit and log on again for the change to take effect.

---

## Viewing the log files

You can view logged information about the Visual application in the cesys and ceaud files.

## About this task

The zSecure Visual client provides log files to capture errors, warnings, and informational messages that can help locate the source of a problem and diagnose its severity.

## Procedure

Follow these steps to access the log files:

1. Navigate to the log directory:

*user\_profile*\AppData\Roaming\IBM\Security zSecure Visual\version\  
Servers\ServerName\ClientLogs

Example directory: C:\Administrator\AppData\Roaming\IBM\Security zSecure  
Visual\version\Servers\ServerName\ClientLogs

Various logs are recorded in this directory. The log files include the process identifier in the titles, so multiple versions from different runs of the client can be stored in the same directory. Here is an example of same-named files that are differentiated by process identifiers:

About0480.log  
CKGPRINT0480.log  
Requests0480.log  
SYSPRINT0480.log  
SYSTEM0480.log

About6412.log  
CKGPRINT6412.log  
Requests6412.log  
SYSPRINT6412.log  
SYSTEM6412.log

You must provide these log files when reporting problems related to the zSecure Visual client.

2. Navigate to the other log file directory. The location of the log directory depends on whether the server definition is stored in the ProgramData or AppData folder, as determined by the choice made in the **View -> Options** dialog for the **Save server definitions in per-user folder** option.

If the **Save server definitions in per-user folder** check box was not selected (default), the log file directory is stored in the ProgramData folder and the directory is: C:\ProgramData\IBM\Security zSecure Visual\version\Servers\ServerName. For example: C:\ProgramData\IBM\Security zSecure Visual\2.3.1\Servers\Server\_A.

If the **Save server definitions in per-user folder** check box was selected, then the log file directory is stored in the AppData folder and the directory is: *user\_profile*\AppData\Roaming\IBM\Security zSecure Visual\version\Servers\ServerName\ . For example: C:\Users\UserA\AppData\Roaming\IBM\Security zSecure Visual\2.3.1\Servers\Server1.

The log files named cesys and ceaud are stored in this directory. These log files provide information about the communication layer between the client and server. Though this information is not for user interpretation, it is useful to diagnose communication-related problems. You must also provide these log files when reporting problems related to the zSecure Visual client.

3. View the latest updates contained in these log files from the tabs of the Communication window GUI.

**Note:** When you start the client it clears log files that are older than 7 days.

For information about the messages and possible resolutions, see *IBM Security zSecure: Messages Guide*.

## Using the Communication window

Use the Communication window to view information exchanged between the zSecure Visual client and the components and programs on the mainframe side.

### About this task

The **Communication** window enables you to view most of the information exchanged between the zSecure Visual client and the components and programs on the mainframe side, including the zSecure Visual server, CKRCARLA, CKGRACF, and RACF. In general, the client issues requests for the CKRCARLA and CKGRACF programs to obtain information about the client and to modify the RACF database. You can use the **Communication** window to view real-time logs for the client requests and their results.

You can print the information found in the **Communication** window and export it to rich text format (.rtf). See “Printing” on page 32 and “Saving and exporting printable data” on page 32.

### Procedure

Follow these steps to view the **Communication** window:

1. Display the **Communication** window, using one of these options:
  - a. From the main menu, select **View > Communication**; or,
  - b. Select the **Communication** button on the toolbar. This button always puts the **Communication** window on top.

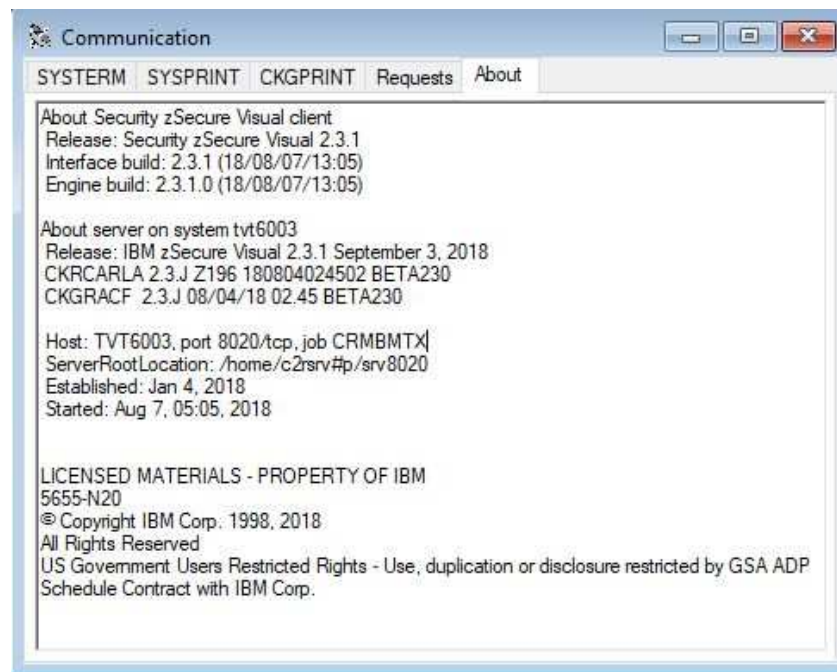


Figure 6. Communication window

2. Select the **Requests** tab to see all requests issued by the client, which include the latest CARLa commands, CKGRACF commands, and commands sent to the server. You can find the commands that are sent to the server under the *extension* section of this tab.
3. Select the **SYSTEM** tab to view status messages and messages with a return code (RC) of 12 or higher.
  - If the most recent request is for CKRCARLA, the *SYSPRINT* tab contains the detailed SYSPRINT output of the CKRCARLA program. The SYSPRINT output includes CKRCARLA listings and critical and informational messages. This information helps locate the command causing problems.
  - If the most recent request is for CKGRACF, the *CKGPRINT* tab contains the detailed CKGPRINT output of the CKGRACF program. The CKGPRINT output includes CKGRACF commands and messages. This information can help you locate a command causing problems. You can also view messages returned directly from RACF.
4. Select the **About** tab to see aggregated client and server information. You can copy and paste this information as text. From this tab, you can find:
  - Client information: the specific version of zSecure Visual client and information about the building of the GUI and its engine.
  - Server information. See “Server Information dialog” on page 34.
  - Copyright notice.

---

## Setting display preferences

Use the **Option** dialog to specify how you want to display IBM Security zSecure Visual.

### Procedure

Follow these steps to set the options:

1. Select **View > Options** from the main menu to start the Options dialog.

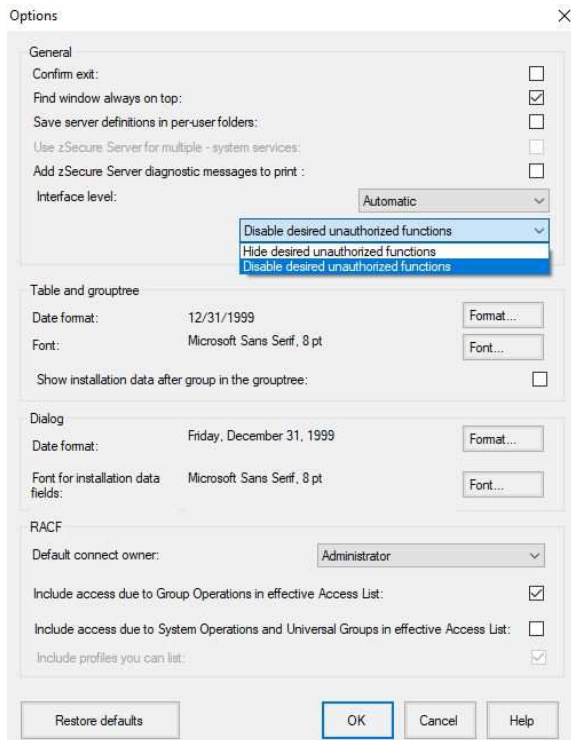


Figure 7. Options dialog

## 2. (Optional) Change any of the general behaviors:

### Confirm exit

Specifies whether the program has to prompt for confirmation on exit or exit directly.

### Find window always on top

Specifies whether the **Find** dialog remains on top or closes after every search.

### Save server definitions in per-user folder

Specifies where the server definitions will be stored:

- If the option is not selected, then the server definitions are stored in the ProgramData folder. All users who can log on to the system can use the same server definition.
- If the option is selected, then the server definitions are stored in the per-user AppData folder. Server definitions that are stored in the AppData folder become part of the roaming profile for that user. Therefore, the same user can use the server definitions in multiple systems in a networked environment without having to configure every system.

### Use zSecure Server for multi-system services

Specifies whether to operate the Visual client in local mode only or multi-system mode. The default is local mode (check box is clear). You must specify the operational mode before you log on. You cannot change from one mode to another while you are logged on. See "Selecting to work locally or in a multi-system environment" on page 18 for information about operating in multi-system mode.

### Add zSecure diagnostic messages to print

Select this option to include a DEBUG statement in the requests to



remote nodes. The DEBUG statement generates information to assist in debugging node problems. Leave this check box clear if you do not want to generate troubleshooting information.

#### **Interface level**

Determines which functions are available and shown to the user.

3. (Optional) Change any of the table and grouptree behaviors:

#### **Date format**

You can specify two date formats: one format for all tables, where the width of the columns is an issue, and one date format for all dialogs. Select a date format from the list to get the wanted date format.

#### **Font selection**

You can specify two different fonts, one for the table and the grouptree, the other for the dialogs. A font size must be 8 - 12 points.

4. (Optional) Change any of RACF behaviors:

#### **Default connect owner**

Specify who is the default owner for new connects. If you leave the **Owner** field blank in the connect dialog, zSecure Visual uses the owner specified here.

#### **Include access due to Group Operations in effective Access List**

Specifies whether the Group Operations attributes determine the effective access list. By default, this option is on.

#### **Include access due to System Operations and Universal Groups in effective Access List**

Specifies whether the System Operations attributes and Universal Group access determine the effective access list. By default, this option is off.

#### **CAUTION:**

**If you select this option, zSecure Visual must read the entire RACF database to create an Effective Access List. It can cause a significant drop in performance.**

#### **Include profiles you can list**

Determines which profiles you can see and edit. When this option is on, you see the profiles you can edit and the profile in your CKGLIST and group-auditor scope. When it is off, you see only the profiles you can edit. By default, this option is on.

5. When you finish the changes, perform one of these steps:
  - a. Click **Restore defaults** to set the options to factory defaults.
  - b. Click **OK** to accept the changes.
  - c. Click Cancel to close the **Options** dialog window without changing the settings.

---

## **Setting interface options according to your access level**

You can adjust the interface to display specific groups of options, according to the access level you are assigned.

## About this task

Use the **Options** dialog to adjust the interface according to your role as a user.

### Procedure

- You can select one administration level from the **Interface level** drop-down list. If you are not authorized to perform all functions of the particular level, the options that you cannot access are either hidden or displayed in gray. If you change the administration level, the **Find** dialog changes to adapt to that level. These options are the administration levels for you to select:

#### Helpdesk

Helpdesk is the lowest level, the functionality is limited to:

- List users
- Resume a user
- Set password
- Manage schedules
- List mapping profiles
- View the mapping profiles of a user

#### Connect

This level expands the functionality from the **Helpdesk** level to:

- List groups
- List connects
- View the group tree
- Create connects
- Change connect attributes
- Remove connects

#### User

This level expands the functionality from the **Connect** level to:

- Duplicate user
- Change properties of user
- Mark user for deletion

#### Access list

This level expands the functionality from the **User** level to:

- List resources
- List Access List
- List effective Access List
- Change access lists (RACF command: permit)

#### Group

This level expands the functionality from the **Permit** level to:

- Add subgroup
- Duplicate group
- Change group properties
- Delete group

#### Full

Full is currently the highest level, functionality for this level includes:

- List member list
- List scope
- Create resource profile
- Duplicate resource profile

- Modify resource profile
- Delete resource profile
- Change member list
- Segment management

#### Automatic

Displays the highest administration level to which the user has access. The CKGRACF SHOW MYACCESS command determines access.

- In the right field, you can select how the interface looks. If you are not authorized on the mainframe for all commands in your administration level, you can select either of these options:

#### Disable desired unauthorized functions

Display all unauthorized functions in gray.

#### Hide desired unauthorized functions

Do not display all unauthorized functions. You can use this setting for further customization between different levels. You can select the higher level and remove undesired functions by refusing access to their corresponding CKG profiles on the mainframe.

CKG profiles cannot control the availability of the list commands, which are based on the administration level only.

---

## Setting the date format

You can define your own format or select a predefined format to display dates.

### About this task

The date format dialog specifies how dates are displayed. You can select one of the predefined formats or build your own format.

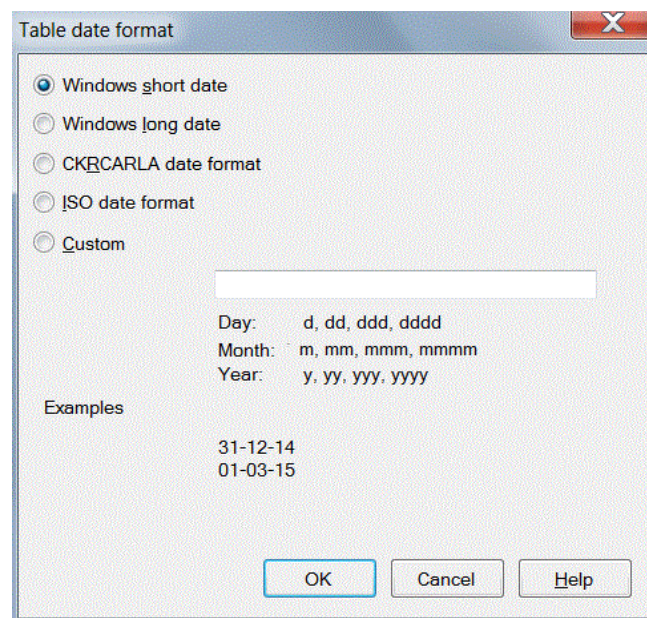


Figure 8. Date format dialog

## Procedure

- Use these options to specify the predefined formats.

### Windows short date

The Windows date formats are taken from the Windows configuration settings. You can change these formats by selecting **Control Panel > Clock, Language, and Region** and clicking on **Change the data, time and number format** under the **Region and Language** option. The modified format affects all applications that use the format.

### Windows long date

See description of Windows short date.

### CKRCARLA date format

This format is used by the CKRCARLA program on the mainframe, which is *dd mmm yyyy*. This format has no special meaning or advantages.

### ISO date format

This format is *yyyy-mm-dd*.

- If you want to change from the predefined formats, select **Custom** and build your own format using these characters in the format string.

**Note:** You can use the characters / and - as separators, but the separator character defined in the Windows **Control Panel > Clock, Language, and Region** settings can replace them. You can prevent replacement by placing a / before the character.

Table 3. Date formatting characters

d	one-digit day, two digits only if necessary
dd	two-digit day
ddd	day of week, three characters
dddd	day of week, full name
m	one-digit month, two digits only if necessary
mm	two-digit month
mmm	three-character month name
mmm	full month name
yy	two-digit year
yyyy	four-digit year

---

## Drag and drop function

You can use the drag and drop function to change users or connects in the RACF database.

Use drag-and-drop to change users or connects in the RACF database, instead of using menus, pop-up menus, or the toolbar. After every drop, a dialog or a pop-up window for confirmation displays to avoid accidental changes. With dragging and dropping you can delete and change users, and delete, change, copy, merge, and move connects. You can also change subgroups and modify access lists and member lists.

---

## Copy and paste function

You can use the **Copy**, **Paste**, and **Paste Special** functions to perform various copy, merge, and move tasks.

Use **Copy**, **Paste**, and **Paste Special** options on the main menu to perform these tasks:

- Copy users, groups, connects, access lists, and member lists
- Create, merge, move, and copy connects

---

## Toolbar buttons

You can use the Visual client toolbar buttons to show the most frequently used menu options.

The toolbar buttons show the most frequently used menu options. When you hover the mouse cursor over each button, a yellow pop-up with the description displays.

---

## Right mouse button

You can right-click a row to display **Navigate** and **Action** options.

In most tables and the group tree, right-click a row to display a pop-up menu with frequently used **Navigate** and **Action** options.

---

## Naming conventions

Use these guidelines to create names for users and groups.

When you add new users or groups, follow these naming conventions:

- The name must be from 1 to 8 characters long.
- The characters must be the letters A-Z, number 0-9, or #, \$, @.
- The name cannot start with a number.
- A group cannot have the same name as another group.
- A group name cannot have same name as an existing user ID.

---

## Changing column sequences

You can use click and drag to change the arrangement of a table column or to change the border of a column.

### Procedure

You can rearrange the columns in a table and change the size of a column.

- To change the arrangement of the columns in a table, drag a column to where you want it so you can compare columns. The column arrangement you make becomes the default when you start the program next time.
- To change the size of a column, click a vertical border and move it left or right. Double-clicking gives you the required size of a column.

---

## Site-specific columns and fields

If configured, you can view information that is specific to your organization.

Your site administrator can customize zSecure Visual to display user information that is defined by your organization. For example, a site might want to display employee IDs and department numbers. These fields are displayed in front of or instead of the INSTDATA column for USER profiles.

Your administrator defines the number, order, and characteristics of site-specific fields; you do not configure these fields in the Visual client. Configuration instructions are in the *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide*.

If defined, site-specific fields are in the User properties dialog, User table, and the Find dialog:

### User properties

Site-specific columns can replace the InstData field or be included in addition to the InstData field. Depending on the number of site-specific fields, these fields can be displayed under a separate tab. The contents of the fields are read-only.

### User table

Scroll right to view site-specific columns. Depending on the configuration of your site, you might be able to search on some fields.

### Find dialog

If site-specific columns are specified with a search capability, the dialog displays the fields when you select the >>**Advanced** button.

---

## Saving and exporting printable data

You can save a printable table in CSV format and export the communication window to RTF format.

### About this task

You can save all printable tables as Comma Separated Values format (CSV). Different programs, such as Microsoft Excel, can read this format. You can also export the communication window to an RTF format. See “Using the Communication window” on page 24.

### Procedure

To save table information in CSV or RTF format, perform these steps:

1. Select **File > Save As**.
2. In the **Save as** dialog, enter a file name. If this name exists, a warning box displays. If you do not change the name, it overwrites the original file.
3. Click **Save**.

---

## Printing

You can print data and see print previews in the Visual client.

## About this task

You can print data and see print previews.

### Procedure

To print data, perform these steps:

1. From the main menu, select **File > Print**, or click the printer icon on the toolbar.
2. In the print dialog, select the options you want. The **Current Page** option is only enabled if you print from the print preview.
3. Click **OK**.

Every printout has these elements:

- Page header with the name of the data list on the left and the product *version number* on the right
- Date
- Page number

You can print every list and export to CSV, see “Saving and exporting printable data” on page 32.

## Previewing a print file

You can preview and change the layout of a print file in the Visual client.

### Procedure

1. To get a print preview, select **File > Print Preview** from the main menu or click the print preview icon on the toolbar.
2. Select **PgUp** or **PgDown** on your keyboard to scroll through the preview.
3. Select the desired printing option from the list of icons:
  - Click the print icon to print the information as shown. All pages are printed.
  - Select the zoom icon to specify the size of the text that is included on the print page. The percentage values are: 10, 25, 50, 75, 100, 150, 200, and 500 percent.
  - Select one of the page icons to view the page layout of 1 (default), 2, 3, 4, or 6 pages of the print file.
  - Click **Close** to go back to the main program.

## Tables available for printing

You can print these tables and lists in the Visual client.

You can print the tables described in these topics:

- “User table” on page 55
- “Group table” on page 85
- “Connects table” on page 97
- “Resource profiles” on page 110
- “Selecting resources for a specific user ID or group with the Permits function” on page 45.
- “Viewing an Access List” on page 53
- “Viewing an Effective Access List” on page 53
- “Using Scope \*” on page 50

- “Viewing a member list” on page 54.

If you cannot print a table, the print and preview options are not active.

---

## Server Information dialog

The **Server Information** dialog displays the information about the server to which you are currently logged on.

To view the server information, select **Help > Server Information** from the main menu. The following information is available:

- Release information of the server CKRCARLA and CKGRACF
- Host name of the server and its IP port
- The possibly resolved value of the C2RSERVE parameter in the zSecure configuration
- Time that the server established itself as a certificate authority
- Time that the server was last started.

See your server documentation for additional information.

---

## Display of the ? character

The question mark (?) is displayed if a field is not within the scope of the user.

If you find a ? in a field of a table, it means that this field is not loaded because it is out of your scope.



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## Chapter 3. RACF database operations

Use the Visual client **Navigate** option to find and view users, groups, and resources and their connects, permits, and schedules.

This chapter explains the different options you can use to work with the databases. Click **Navigate** to go to the databases that you want to see. You can find individual users, groups, and resources and their relations such as connects, permits, schedules, and so on.

“Select Nodes dialog: multi-system options” on page 36

Specify the systems and nodes you want to work with in the **Select Nodes** dialog.

“Verification of actions across multiple systems” on page 37

Use the **Status of** progress form to verify actions for each selected node in a multi-system task.

“Using the Find dialog” on page 38

Use the **Find** dialog to view users, groups, or resources for one or more RACF databases.

“Viewing connected users and groups” on page 43

Select **Navigate > Connects** to view connect relationships for users and groups.

“Viewing the groups” on page 43

You can view a group tree to understand the hierarchy of groups and subgroups.

“Selecting resources for a specific user ID or group with the Permits function” on page 45

You can select resources related to a specific user ID or group so that you can see the resource profiles.

“Using Scope” on page 46

Use the various filtering options in the **Scope** dialog to view users, groups, and resources that can be accessed by a specific user ID or group.

“Using Scope \*” on page 50

Use the various filtering options in the **Scope \*** dialog to view users, groups, and resources that can be accessed by every user.

“Viewing RACF SETROPTS settings” on page 52

Use the RACF SETROPTS Settings report to view the system-wide RACF options as set or as retrieved by the SETROPTS command.

“Viewing an Access List” on page 53

Use the **Access List** window to view the access list for all user IDs of a resource profile.

“Viewing an Effective Access List” on page 53

Use the **Effective Access List** window to view the access list for groups of users of a resource profile that are in your scope.

“Viewing a member list” on page 54

Use the **Members** window to view the member list of a general resource profile.

“Finding classes with the Select class dialog” on page 42

Use the **Select class** dialog to find a specific class.

## Select Nodes dialog: multi-system options

Specify the systems and nodes you want to work with in the **Select Nodes** dialog.

If you select to work with multiple systems when you start the Visual client, the **Select Nodes** dialog is displayed each time you start an action. For example, if you select **Duplicate** to duplicate a user or group, the **Select Nodes** dialog displays your preferred list of nodes.

**Note:** If you select a single node (which becomes your preferred list) to work in multi-system mode, the Select Nodes dialog is *not* displayed before your request is processed. You must select at least two nodes to view the Select Nodes dialog before the processing of a client request.

If you have performed an action already, the nodes you selected for the previous action are displayed. If needed, you can change the nodes to which the action applies. You must select at least one node to continue. The local node entry is highlighted.

If a node is defined as a zSecure node and an RRSF node, you can select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select an alternative user ID to run the command.

For RRSF nodes, if other user IDs are associated with your user ID (using the RACLINK command), those associated IDs are displayed.

When you click **OK**, the selected list of nodes is verified, then the specified action is performed for each selected node.

Click **Cancel** to return to the previous dialog without selecting any nodes.

	zSecure Nodes	RRSF Nodes
<input type="checkbox"/>	Serv0000	
<input type="checkbox"/>		RRSF0001 CRMQAR00 <input type="radio"/> AT <input type="radio"/> ONLYAT
<input checked="" type="checkbox"/>	Serv0002	RRSF0002 CRMQARA0 <input type="radio"/> AT <input type="radio"/> ONLYAT
<input checked="" type="checkbox"/>	Serv0003	
<input type="checkbox"/>	Serv0004	
<input checked="" type="checkbox"/>		RRSF0005 CRMQAR00 <input type="radio"/> AT <input type="radio"/> ONLYAT
<input type="checkbox"/>	Serv0006	RRSF0006 CRMQARA0 <input type="radio"/> AT <input type="radio"/> ONLYAT
<input type="checkbox"/>		RRSF0007 CRMQAR00 <input type="radio"/> AT <input type="radio"/> ONLYAT

\* Local system node: Serv0002

OK Cancel Help

Figure 9. Select Nodes dialog

The **Select Nodes** dialog has these fields and options:

### Check box column

The left check boxes enable you to select the nodes to which you want to apply your request.

### zSecure Nodes

Lists the available zSecure nodes in your preferred nodes list.

#### Radio button

If the row contains entries for zSecure and RRSF nodes, a radio button is displayed beside the zSecure node. This button enables you to select or clear the zSecure node. If you select the row and the radio button, your request is processed for the zSecure and RRSF nodes. If you select the row and clear the button, your request is processed only for the RRSF node.

#### *System\_name*

Displays the name of the available zSecure system. You can select and clear the systems to which the action applies.

### RRSF Nodes

Lists the available RRSF nodes in your preferred nodes list.

#### *System\_name*

Displays the name of the available RRSF system. You can select and clear the systems to which the action applies.

#### Alternative ID (drop-down list column)

Select this dropdown option to specify a different ID than the associated user ID to perform the action on the selected RRSF system. Associated IDs on RRSF systems are defined using the RACLINK command.

Specify only IDs that are defined with the authority to execute your action. If the specified ID does not have the authority on the selected system to issue the command corresponding to your action, RACF will reject the command.

The alternative user IDs that you specify are saved in the drop-down list for your reuse during a logon session. The alternative IDs are *not* saved between logon sessions.

**AT** Specifies how the instruction is processed at the selected RRSF node. If you select the **AT** option, it is used to build the command, for example, `AT(RRSF0000.userid)`.

#### **ONLYAT**

Specifies how the instruction is processed at the selected RRSF node. If you select the **ONLYAT** option, it is used to build the command, for example, `ONLYAT(RRSF0000.userid)`.

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## Verification of actions across multiple systems

Use the **Status of** progress form to verify actions for each selected node in a multi-system task.

If you execute an action for multiple systems, the **Status of** progress form is displayed to show the progress of the action for each selected node.

Node	Type	Progress
Serv0002	zSecure	Complete
Serv0003	zSecure	In Progress
RRSF0005	RRSF	

Cancel

Figure 10. Multiple system progress Status form

As each action completes, the progress form is updated to indicate the status of the action on each node. For example, the **Progress** field indicates if the action completes, fails, or is in progress for each node. You can click **Cancel** to prevent starting the action on nodes where the action has not begun. You cannot cancel an action in progress.

If an action fails, you can review any error messages before closing the form. Click **Close** when the action completes successfully on all listed nodes.

**Note:** The completion status cannot be determined for RRSF nodes. Consequently, all RRSF node requests are assumed to be successful.

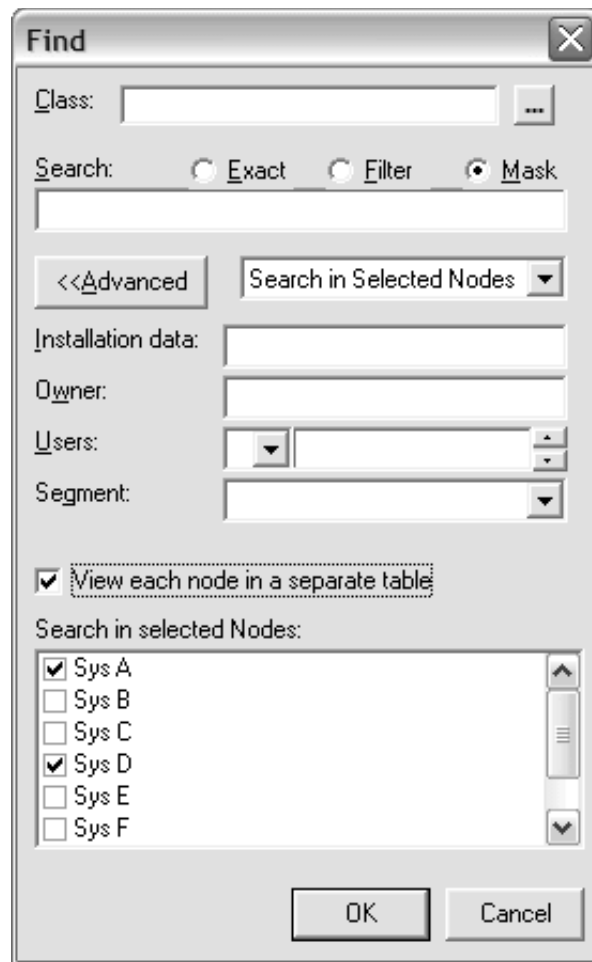
## Using the Find dialog

Use the **Find** dialog to view users, groups, or resources for one or more RACF databases.

### Procedure

Follow these steps to open the **Find** dialog:

1. Select **Navigate > Find**.
2. Enter the class and the search string.
3. Specify how the search string value is interpreted, such as Exact, Filter, or Mask.
4. Select the scope of the nodes for which you are searching.
5. Click **OK**.



The image shows a 'Find' dialog box with the following fields and controls:

- Class:** A text input field with a browse button (three dots).
- Search:** Three radio buttons labeled 'Exact', 'Filter', and 'Mask'. 'Mask' is selected.
- Search in Selected Nodes:** A dropdown menu currently showing 'Search in Selected Nodes'.
- Installation data:** A text input field.
- Owner:** A text input field.
- Users:** A dropdown menu with a list box and up/down arrow buttons.
- Segment:** A dropdown menu.
- View each node in a separate table:** A checked checkbox.
- Search in selected Nodes:** A list box containing:
  - ☒ Sys A
  - ☐ Sys B
  - ☐ Sys C
  - ☒ Sys D
  - ☐ Sys E
  - ☐ Sys F
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

Figure 11. Find dialog

Depending on your configuration, you might see one or more site-specific fields in conjunction with user information. This information is either at the bottom of the dialog or on the right of the dialog. If installation data (INSTDATA) is displayed, up to three site-specific search fields are added to the bottom of the dialog. If there is no installation data, up to four site-specific search fields are added to the bottom of the dialog. If there are more than four site-specific search fields, the fields are displayed on right side of the dialog.

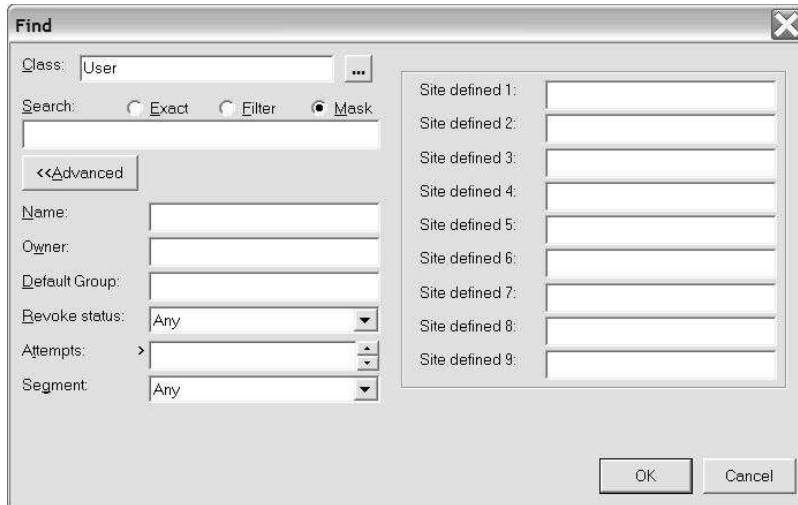


Figure 12. Find dialog with site-specific fields

The Find dialog presents these fields and options:

**Class** Specifies the name of the class. If you do not know the class, click the button next to the class field to open the **Select class** dialog. See “Finding classes with the Select class dialog” on page 42. When you leave the class field empty, you receive all records except users or groups.

You can use keyboard shortcut keys to specify the class field:

Table 4. Shortcut keys for the class

Shortcut keys	Class
Ctrl + D	Dataset
Ctrl + G	Group
Ctrl + U	User

**Exact** The search string is the only user ID, group ID, or profile that is loaded.

If you have site-specific fields, do not specify values in these fields if you want to search on an exact match to the specified string in the search field. If you select **Exact** and specify one or more values in the site-specific fields, the Visual client returns message C2RU163. This message warns that you cannot specify values in the site-specific fields when searching for an exact match.

**Filter** If the search string is used as a filter, all characters of the profile key must match. The percentage (%) character matches any character and the asterisk (\*) character matches all succeeding characters. The \* character is only accepted as a last character. For example:

- "IBMUSER" matches "IBMUSER" only.
- "I%MUSER" matches "IBMUSER," "ICMUSER," "IDMUSER" and so on.
- "IBM\*" matches "IBM," "IBMUSER," "IBMGROUP," "IBMSYS" and so on.

The only exception is that an empty string used as a filter selects all, just as an empty mask does.

**Mask** When the string is used as a mask, the first characters of the item must match the string. "IBM" matches "IBMUUSER," "IBMGROUP," "IBMSYS" and so on.

#### **Advanced**

When clicking <<**Advanced**, you get additional criteria, which you can use to reduce the selection. Only profiles that match all criteria can be selected.

- See Chapter 4, "User management," on page 55 for a description of the extra fields for users.
- See Chapter 5, "Group management," on page 85 for a description of the extra fields for groups.
- See Chapter 7, "Resource management," on page 109 for a description of the extra fields for resources.

Your list of preferred nodes is maintained in the <<**Advanced** search options. You can change the preferred nodes using the <<**Advanced** option.

#### **Mode selection listbox**

This drop-down field is displayed only if you are operating in multi-system mode.

##### **Search All Nodes**

Select this mode to perform operations on all preferred zSecure nodes. You cannot include RRSF nodes in the search because they do not return data.

##### **Search in Selected Nodes**

Default. Select this mode to perform operations on specific zSecure nodes. Nodes are searched in the order in which they are listed. The **Search in Selected Nodes** listbox is enabled when you specify **Search in Selected Nodes**.

#### **Segment**

The segment option lets you refine the class you open. Select only the profiles that have the segment you have chosen. The default option is any, which gives you the complete profile list including the profiles that have no segments.

If you are not authorized to view segments, or if there are no segments present, the Segment option is shaded in gray to indicate that it is not available.

The **Find window always on top** option in the **Options** dialog specifies whether the dialog disappears after you click **OK**. The interface options determine which fields and options are available in this dialog.

#### **Site-specific fields**

Site-specific fields with user information can be configured by your organization. If so, one or more fields with site-specific names and content are on the right.

#### **View each node in a separate table**

This option is displayed only if you are operating in multi-system mode. Select this option to view the search results for each node in a separate table. If you do not select this option, all nodes are shown in the same table.

### Search in Selected Nodes

Your list of preferred nodes is displayed here if you select **Search in Selected Nodes** in the drop-down list next to <<**Advanced**. The list contains only preferred nodes. You can change the list of search nodes as needed. The nodes are not selected for your current request but your changes are used for the next action you specify.

## Ambiguous Class selection

To view the desired search results, specify the exact class name in the **Find** dialog.

If you open the **User** or **Group** table and make a mistake in the **Find** dialog (for example, you enter Users instead of User), the software displays the Ambiguous Class selection "*class\_name*" warning. If you continue the search, the program tries to find resources of the class you type. Typically this results in the message No matching resources found.

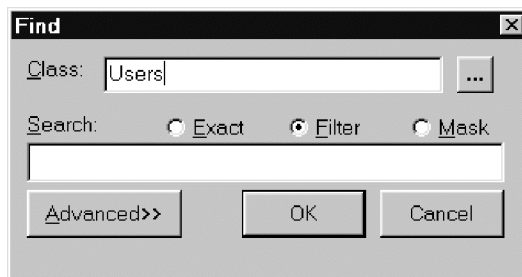


Figure 13. Ambiguous Class specification

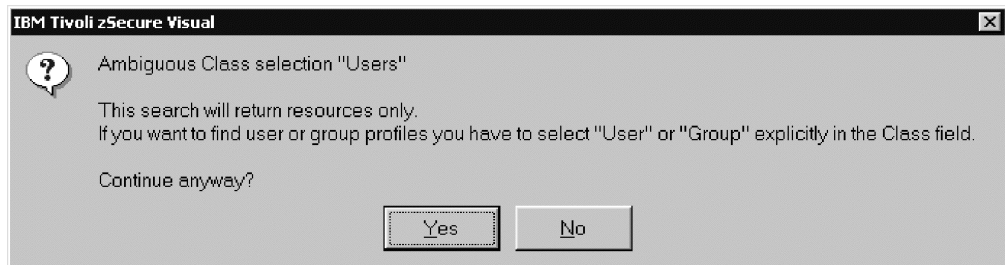


Figure 14. Warning

To view the **User** table, select **No**, then select the right class.

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## Finding classes with the Select class dialog

Use the **Select class** dialog to find a specific class.

### About this task

The **Select class** dialog helps you find the class you need.



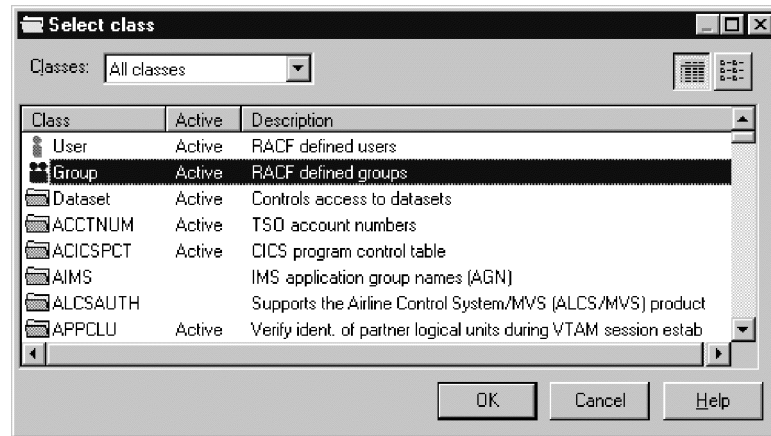


Figure 15. Select class dialog

## Procedure

- Click **OK** to select the desired class.

The table contains these columns:

**Class:** Name of the class.

**Active:**

Flag indicating whether RACF protection for the class is active.

**Description:**

Description of the purpose of the class.

- To limit the list of classes, use the Classes field:

### All classes

Displays all classes that have been read from the class descriptor table during logon.

### Active classes

Displays only classes that are active, as set by SETROPTS CLASSACT and SETROPTS NOCLASSACT commands on the mainframe.

### Authorized classes

Displays only classes that you are authorized to change, according to your class authorizations or system-wide special attribute.

---

## Viewing connected users and groups

Select **Navigate > Connects** to view connect relationships for users and groups.

## Procedure

- To see the connected users or groups, select a user or group.
- Select **Navigate > Connects** from the main menu. You can find the explanation of the columns of the resulting table in these topics:
  - Chapter 4, "User management," on page 55
  - Chapter 5, "Group management," on page 85
  - Chapter 6, "Connect management," on page 97

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## Viewing the groups

You can view a group tree to understand the hierarchy of groups and subgroups.

## About this task

A superior group can have zero or more subgroups. A group always belongs to only one superior group except for the group SYS1. SYS1 does not have a superior group because it is the root of the tree.

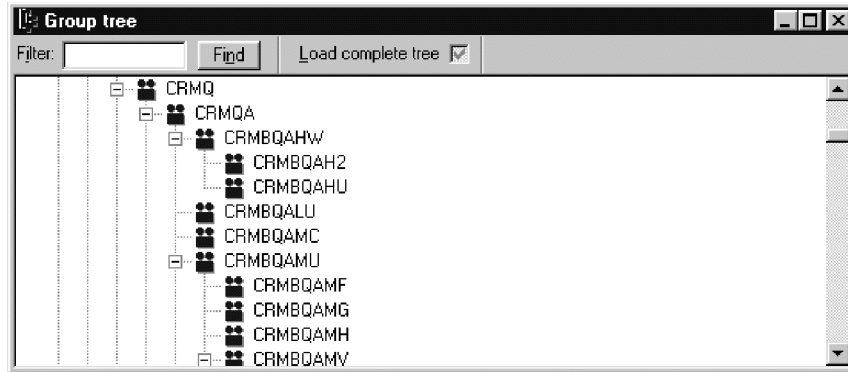


Figure 16. Group tree

To display the group tree, use one of these methods:

### Procedure

1. Select **Navigate > Group tree** from the main menu, or
2. Click the **Group tree** button from the toolbar.

If you are operating in multi-system mode, a **Select Node** dialog displays the list of zSecure complex nodes. You can select only one zSecure complex. Select the complex that you want to display in the group tree.

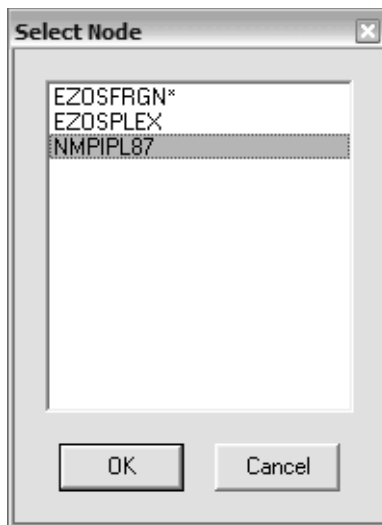


Figure 17. Select complex for group tree

If you close and reopen the session, you must reopen the group trees for the nonlocal nodes.

The **Group tree** window normally does not contain all groups defined in the RACF database. It contains only the groups that are in your scope and their

superior groups up to SYS1. Though you can see the superior groups displayed, you are not able to see any information about any superior group that is out of your scope.

*Load Complete* is a time saving feature. It loads all groups in your scope and their superior ones from the mainframe. It stores them in the memory of your PC, so you can use them during this session. This loading is only possible if your PC has enough memory capacity.

3. To select groups, enter a filter in the filter box in the grouptree window.
4. Click **Find**.

The grouptree is extended with the wanted groups. The first one that matches the filter is highlighted. If you select just one group, use its name for a filter. The **Find** command loads the wanted information directly from the mainframe except when the **Load Complete** option is used. Then it looks into the memory of your PC.

In the **Options** dialog, you can specify whether the available installation data of the group is shown in the tree.

---

## Selecting resources for a specific user ID or group with the Permits function

You can select resources related to a specific user ID or group so that you can see the resource profiles.

### Procedure

Follow these steps to select the resources:

1. Select the user ID or group.
2. Select **Navigate > Permits**.



Figure 18. Permits

When you use Permits, you effectively select these profiles:

- Resource profiles that contain the user ID or group on their Access List
- Resource profiles that are owned by the user ID or group
- DATASET profiles that have the user ID or group as first qualifier. This qualifier is often referred to as the high level qualifier (HLQ). These profiles are selected because RACF users and groups have ALTER access to the data sets that have the user ID or group as the HLQ.

**Note:** This procedure does not select all resources that the user has access to because the connects of the user are not taken into account. To get a list that takes into account the connects, use View Scope.

In addition to the columns of a resources table explained in Chapter 7, "Resource management," on page 109, the table contains these columns:

**Access**

This field contains the access the user or group has to the resource. It can be an access level between None and Alter, and one of the values:

**Owner**

The user ID or group is the owner of the resource profile.

**QualOwner**

The user ID or group is the first qualifier of a DATASET profile.

**When** If this field is not blank, the access is only granted if the condition is met. If the field is blank, the access is granted without restriction.

---

## Using Scope

Use the various filtering options in the **Scope** dialog to view users, groups, and resources that can be accessed by a specific user ID or group.

### About this task

Users, groups, and resources that can be accessed by a specific user ID or group are in *scope* of the user ID or group. To find the resources that every user can select, use **Scope \***. See "Using Scope \*" on page 50.

### Procedure

To select users, groups, or resources in scope of a user or group, perform these steps:

1. Select the user or group.
2. Select **Navigate > Scope** from the main menu.

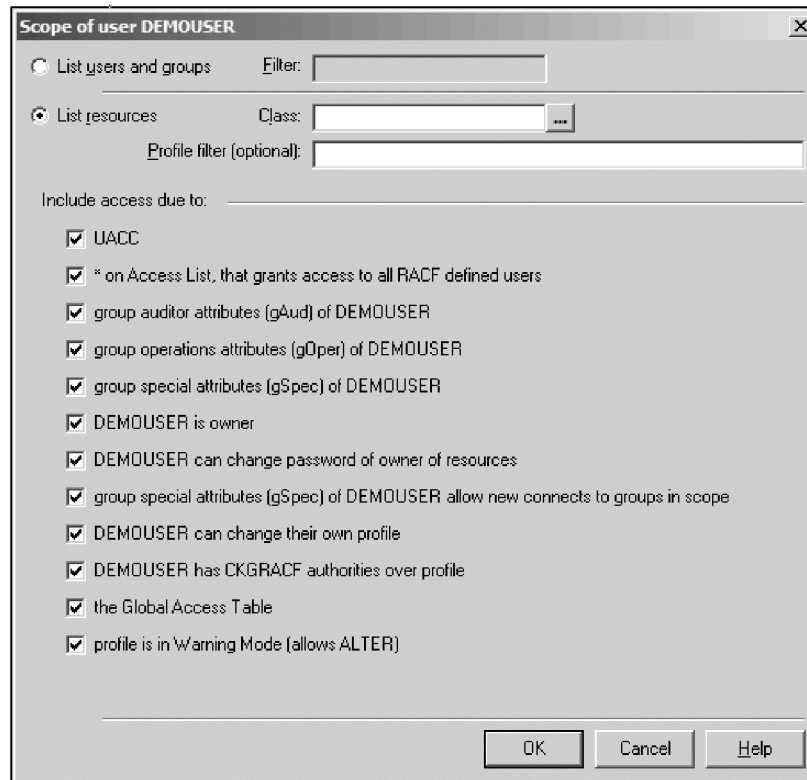


Figure 19. Scope dialog

The Scope dialog displays these fields and options:

**List users and groups**

Select this option to get a list of users and groups that are in scope of the specified user ID or group. When you select this option, some of the other options become disabled because they do not apply to these users and groups.

**Filter** Use this field only if you select **List users and groups**. You can enter a user or group filter, for example, IBM,\* to select only users and groups that are in scope and match the filter. When you leave this field empty, all users and groups in scope are selected. It leads to a large table.

**List resources**

Select this option to get a list of resources that are in scope of the specified user ID or group.

**Class** Use this field only if you select **List resources**. You can enter a class name or class filter to select only resource profiles in a class that matches the filter. If you leave this field empty, no class filter is used. It leads to a large table.

**Profile filter**

Use this field only if you select **List resources**. You can enter a profile filter to select only resource profiles that match the filter. If you leave this field empty, no profile filter is used. It leads to a large table.

**UACC** When selecting this option, resources that have a UACC other than None are considered in scope.

**\* on Access List, that grants access to all RACF defined users**

When selecting this option, resources that have \* on the Access List with an access other than None are considered in scope.

**group auditor attributes (gAud) of ID**

By selecting this option, the group auditor attributes of the selected user are taken into account when determining whether a user, group, or resource is within scope. If you select a group, this option is disabled because groups have no auditor attributes.

**group operations attributes (gOper) of ID**

By selecting this option, the group operations attributes of the selected user are taken into account when determining whether a user, group, or resource is within scope. If you select a group, this option is disabled because groups have no group auditor attributes.

**group special attributes (gSpec) of ID**

By selecting this option, the group special attributes of the selected user are taken into account when determining whether a user, group, or resource is within scope. If you select a group, this option is disabled because groups have no group special attributes.

**ID is owner**

When selecting this option, user, groups, or resources owned by the ID you select are considered in scope.

**ID can change password of owner of ...**

When selecting this option, users, groups, or resources owned by the ID you select are considered in scope. It is because ID might change the password, logon, user, group or resource, and set the password back to the previous value.

**group special attributes (gSpec) of ID allow new connects to groups in scope**

By selecting this option, the user ID *ID* can connect to a group in scope of the user ID. The user ID has group special attribute (gSpec) to the groups in scope. If you select a group, this option is disabled because groups have no such group special attributes.

**ID can change their own profile**

When selecting this option, users, groups, or resources, which become within scope when ID has changed their own profile, are considered within scope.

**ID has CKGRACF authorities over ...**

When selecting this option, users, group, or resources within the CKGRACF scope are considered in scope.

**Global Access Table**

When selecting this option, a resource is considered in scope if the Global Access Table allows access.

**Profile is in Warning Mode (allows ALTER)**

When selecting this option, all resources protected by profiles in Warning Mode are considered within scope. Warning Mode implies all access is accepted, but a warning message is generated where a violation occurs.

**3. Click OK.**

The requested table displays the columns that are found in user, group, and resources tables, which are described in Chapter 4, "User management," on page 55

page 55, Chapter 5, “Group management,” on page 85, and Chapter 7, “Resource management,” on page 109. The table also contains these columns:

**Access**

This field contains the access to the user, group, or resource. It can be in the range Execute-Read-Update-Control-Alter and has these options:

**Owner**

The user or group that owns the user, group, or resource.

**QualOwner**

The user ID or group that is the first qualifier of a DATASET profile.

**Alter-Operations**

The user that can alter the resource using their operations attribute.

**CKGOwner**

Access granted by CKGRACF.

**CKGList**

Read access granted by CKGRACF.

**Alter-M**

The user can alter 'myself' - a user can alter some fields in their own user profile.

**Alter-P**

Alter access on a discrete profile, enabling you to issue PERMIT.

**When** If this field is not blank, the access is only granted if the condition is met. If the field is blank, the access is granted without restriction.

**Via** This field contains the user ID, group, or connected group that was granted the specified access, or it contains one of these options:

**Warning**

Access is granted because the profile is in warning mode.

**\*** Access is granted because \* is on the Access List with access other than *None*.

**UACC** Access is granted because the UACC is not *None* or the Global Access Table allows access.

**Auditor**

Access is granted because the user has a group auditor attribute.

**Operations**

Access is granted because the user has a group operations attribute.

**SCP.G** Access is granted because the group or the owner of the user, group, or resource lies in the CKGRACF scope, according to a CKG.SCP.G.... scope profile.

**SCP.U** Access is granted because the user or the owner of the user, group, or resource lies in the CKGRACF scope according to a CKG.SCP.U... scope profile.

**SCP.ID**

The access is granted because the user or group, or the owner

of the user, group, or resource lies in the CKGRACF scope according to a CKG.SCP.ID... scope profile.

### Global

Access is granted because the Global Access Table allows access.

#### Note:

- When the **Via** column shows *Global*, the Access List and Effective Access List options are deactivated. These lists do not yield any usable information.
- This list is a snapshot. If you want to see any changes made after you display the list, you must close it and display it again.

A related function for resources is the effective Access List, which results in a list of all users and groups that have access according to the profile.

---

## Using Scope \*

Use the various filtering options in the **Scope \*** dialog to view users, groups, and resources that can be accessed by every user.

### About this task

You can use the **Scope \*** function to view a list of resources that can be accessed by every user. To find the users, groups, or resources that can only be accessed by a specific user, use the **Scope** function. See “Using Scope” on page 46.

### Procedure

1. To find the **Scope \*** function, select **Navigate > Scope \*** from the main menu.

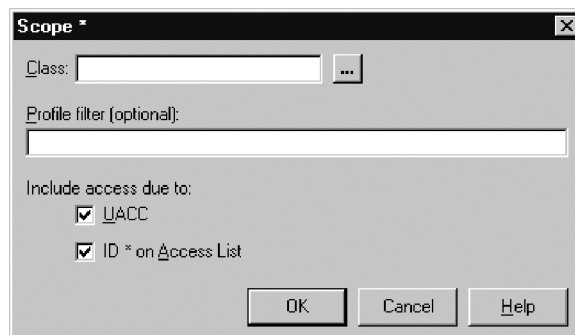


Figure 20. Scope \*

The Scope \* dialog displays these fields and options:

**Class** You can enter a class name or class filter to select only resource profiles in a class that matches the filter. If you do not know the class, click the button next to the class field to view the **Select class** dialog. See “Finding classes with the Select class dialog” on page 42. If you leave this field empty, no class filter is used, which can result in a large table.

**Profile filter**

You can enter a profile filter to select only resource profiles that match the filter. If you leave this field empty, no profile filter is used, which can result in a large table.



**UACC** When selecting this option, resources that have a UACC other than **None** is in scope.

**ID \* on Access List**

When selecting this option, resources that have \* on the Access List with an access other than **None** are in scope.

2. Click **OK** to view the requested table.

The table contains columns found in resources tables, which are described in Chapter 7, "Resource management," on page 109. The table also contains these columns:

**Access**

This field contains the access to the user, group, or resource. It can be in the range Execute-Read-Update-Control-Alter and has these options:

**Owner**

The user or group that owns the user, group, or resource.

**QualOwner**

The user ID or group that is the first qualifier of a DATASET profile.

**Alter-Operations**

The user that can alter the resource using their operations attribute.

**CKGOwner**

Access granted by CKGRACF.

**CKGList**

Read access granted by CKGRACF.

**Alter-M**

The user can alter 'myself' - a user can alter some fields in their own user profile.

**Alter-P**

Alter access on a discrete profile, enabling you to issue PERMIT.

**When** If this field is not blank, the access is only granted if the condition is met. If the field is blank, the access is granted without restriction.

**Via** This field contains the user ID, group, or connected group that was granted the specified access, or it contains one of these options:

**Warning**

Access is granted because the profile is in warning mode.

\*

Access is granted because \* is on the Access List with access other than *None*.

**UACC** Access is granted because the UACC is not *None* or the Global Access Table allows access.

**Auditor**

Access is granted because the user has a group auditor attribute.

**Operations**

Access is granted because the user has a group operations attribute.

**SCP.G** Access is granted because the group or the owner of the user, group, or resource lies in the CKGRACF scope, according to a CKG.SCP.G.... scope profile.

**SCP.U** Access is granted because the user or the owner of the user, group, or resource lies in the CKGRACF scope according to a CKG.SCP.U... scope profile.

**SCP.ID**

The access is granted because the user or group, or the owner of the user, group, or resource lies in the CKGRACF scope according to a CKG.SCP.ID... scope profile.

**Global**

Access is granted because the Global Access Table allows access.

**Note:**

- When the **Via** column shows *Global*, the Access List and Effective Access List options are deactivated. These lists do not yield any usable information.
- This list is a snapshot. If you want to see any changes made after you display the list, you must close it and display it again.

A related function for resources is the effective Access List, which results in a list of all users and groups that have access according to the profile.

---

## Viewing RACF SETROPTS settings

Use the RACF SETROPTS Settings report to view the system-wide RACF options as set or as retrieved by the SETROPTS command.

### About this task

The RACF SETROPTS Settings report is read-only.

### Procedure

To view the RACF SETROPTS Settings report, Select **Navigate > System Audit > RACF SETROPTS Settings** from the main menu.

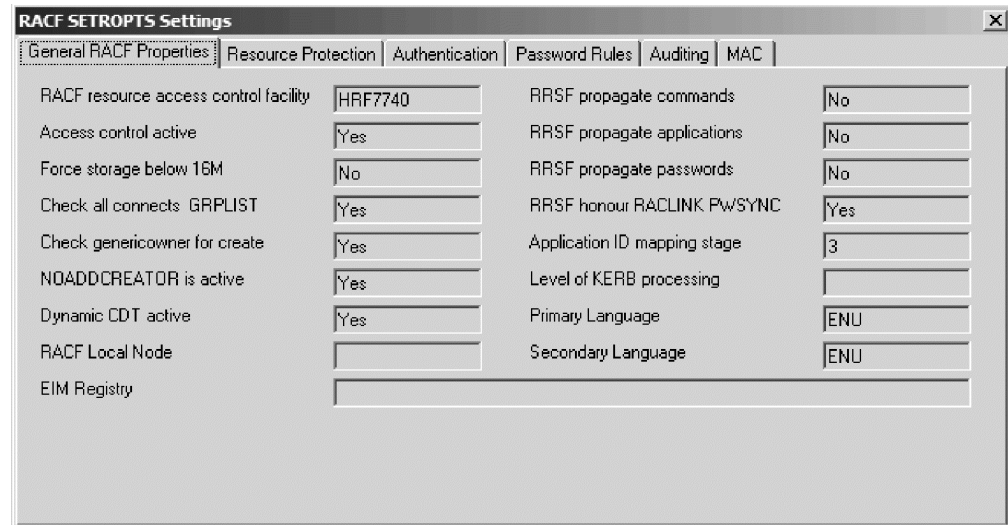


Figure 21. RACF SETROPTS Settings

## Viewing an Access List

Use the **Access List** window to view the access list for all user IDs of a resource profile.

### About this task

The access list contains user IDs and groups. When a group is in an access list, all its users get access.

Follow these steps to view the access list of a resource profile.

### Procedure

- To view the access list of a resource profile, select a resource profile then select **Navigate > Access List**. The columns of the resulting table are explained in “Modifying an Access List (ACL)” on page 118.
- To view the users in groups that are in your scope, select the **Effective Access List** option. See “Viewing an Effective Access List”

## Viewing an Effective Access List

Use the **Effective Access List** window to view the access list for groups of users of a resource profile that are in your scope.

### About this task

The **Effective Access List** contains all user IDs of the access list and all users that are in the groups on the access list. If a user is in more than one group on the access list, the highest access is displayed, just as RACF displays the access.

## Procedure

To view the **Effective Access List** of a resource profile, follow these steps:

1. Select a resource profile from the main menu.
2. Select **Navigate > Effective Access List**.

“Modifying an Access List (ACL)” on page 118 explains all columns of the resulting table except the **Via** column, which contains the connect group of the user that results in the access.

### Note:

- In the **Options** dialog, you can specify whether Group Operations or System Operations (together with Universal Groups) are used when determining the **Effective Access List**.
- When activated, the last option might cause a significant drop in performance while creating the Effective access list.
- If a group on the access list is out of your scope, the access list displays the group but does not display its users.
- When you load **Effective Access List**, the access list is loaded as well, so you can quickly switch to the access list.
- This list is a snapshot. If you want to see any changes made after you display the list, you must close it and display it again.

---

## Viewing a member list

Use the **Members** window to view the member list of a general resource profile.

## Procedure

1. To view the member list of a general resource profile, select the profile from the main menu.
2. Select **Navigate > Members**. See “Viewing and changing a member list” on page 123 for information about the columns of the resulting table.

---

## Chapter 4. User management

In IBM Security zSecure Visual, user management tasks include viewing the user table and properties, deleting, duplicating, and resuming users, setting passwords, and using schedules. These tasks are described in the following topics.

“User table”

Review user data, such as owner and status, in the User table.

“Viewing user properties” on page 63

Use the User properties window to view and edit the attributes and status of users.

“Duplicating a user” on page 67

Use the **Duplicate user** window to create a new user from existing users.

“Deleting a user” on page 70

Use the **Delete user** dialog to revoke access for one or more users.

“Resuming a user” on page 71

Use the **Resume user** dialog to resume a user that has revoked status. The steps are described in this topic.

“Disabling a user” on page 72

Use the **Disable user** dialog to prevent a user from logging on.

“Enabling a user” on page 72

Use the **Enable user** dialog to enable a revoked or disabled user to log on.

“Setting passwords (or passphrases)” on page 74

Set or reset the user password or passphrase with the **Set Password** or **Set passphrase** dialog.

“Setting a default password (or passphrase)” on page 76

Use the **Edit default password** or **Edit default passphrase** dialog to set the default password or passphrase for a user.

“Removing the default password (or passphrase)” on page 78

Use the **Edit default password** or **Edit default passphrase** dialog to remove the default password or passphrase for a user.

“About Schedules” on page 79

Use schedules to specify intervals during which a user is revoked or resumed.

---

### User table

Review user data, such as owner and status, in the User table.

The User table consists of a list of users and their properties. Use the **Find** dialog (see “Using the Find dialog” on page 38) to open the User table. Every icon in the list can be either red or green. When an icon is green, it means that the user is active; when it is red, the user is revoked or inactive.

Name	Owner	P	Interval	Revoked	Inactive	La...	PwdEx...	A	LastConnect	LastPwdChange	DefaultGp	Location	Building	Room	Cost centre	Order limit	Hire date	zSecure
STUDENT 2	SYSPROG	30			Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Amsterdam	204	1184	10084	15.000	01Jan2001	N
STUDENT 3	SYSPROG	30		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Amsterdam	204	1454	10084	1.000	01Feb2004	N
STUDENT 4	SYSPROG	30		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Groningen	7	324	90237	25.000	01Dec1984	N
STUDENT 7	SYSPROG	30		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Maastricht	700	324	77669	1.000	15Apr1985	N
STUDENT 8	SYSPROG	60		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Delft	120	326	27932	25.000	01Aug2000	N
JULIE FABRI	SYSPROG	30					Expired		18-Jun-18	18-Jun-18	CR510	Delft	120	328	27932	1.000	01Nov2003	N
STUDENT 12	SYSPROG	30		Revoked	Inactive		Expired		16-Mar-18	01-Mar-18	CR510	Maastricht	700	324	77669	1.000	01Mar1997	N
STUDENT 13	SYSPROG	30		Revoked	Inactive		Expired		26-Jul-17		CR510	Groningen	7	324	90234	5.000	15Sep1991	N
STUDENT 16	SYSPROG	30		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Delft	120	320	27932	10.000	01Feb2008	N
STUDENT 17	SYSPROG	30		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Rotterdam	63	324	38803	1.000	01Aug2007	N
STUDENT 18	SYSPROG	60		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Delft	120	318	27931	5.000	01May1987	N
STUDENT 19	SYSPROG	30		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Rotterdam	63	324	38803	20.000	01Jun1998	N
STUDENT 1	SYSPROG	30			Inactive		Expired		01-Sep-17	21-Aug-17	CR510	Delft	120	324	27931	5.000	01Feb1997	Y
HARI P	SYSPROG	30			Inactive		Expired		15-Jan-18	15-Jan-18	CR510	Delft	120	328	27931	100.000	15Jun2005	Y
STUDENT 6	SYSPROG	30		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Rotterdam	63	324	38803	5.000	01Oct2009	Y
STUDENT 9	SYSPROG	30		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Delft	120	324	27931	75.000	01Jul2002	Y
MADALINA	SYSPROG	30							07-Aug-18	07-Aug-18	CR510	Amsterdam	206	2556	10080	1.000	01Nov2001	Y
STUDENT 14	SYSPROG	30		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Amsterdam	205	2765	10080	5.000	01Jan1999	Y
STUDENT 15	SYSPROG	30		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Amsterdam	205	1184	10083	5.000	01Dec2006	Y
STUDENT 20	SYSPROG	30		Revoked	Inactive		Expired		26-Jul-17	26-Jul-17	CR510	Delft	120	316	27931	5.000	01Feb2003	Y

Figure 22. User table

The User table has these columns:

### Complex

The name of the zSecure node where the result was found. This column is displayed only if you are operating in multi-system mode.

### Userid

The RACF user ID.

**Name** Real name of the user, or any other description.

### Revoked

A revoked user cannot log on, but the profile is still present. A user can be revoked for these reasons:

- An administrator revokes the user.
- The user makes too many unsuccessful password attempts and is revoked automatically.
- An administrator schedules the revocation on a specified date.
- The user does not log on in a specified timeframe and is revoked automatically.

The status is derived from the revoke status flag, the current date, the revoke date, the resume date, and the date the user last logged on.

### Inactive

A user ID becomes inactive when it is not used for a period of time set by the SETROPTS INACTIVE command on the mainframe. An inactive user who tries to logon is revoked immediately. The field presented takes into account the RACF inactive setting and the last use date.

**Note:** If a user ID has never been used, it does not become inactive.

### Attempts

Count of logon attempts with an invalid password. This count is only kept if the RACF user revoke setting has been activated with the RACF SETROPTS PASSWORD(REVOKE(nn)) command on the mainframe. After nn invalid password attempts, the user is revoked.

### LastConnect

This field contains the last RACINIT date for any group that the user is connected to.

**Note:** RACF uses a different date to calculate the inactivity interval of the user.

**LastPwdChange**

The most recent date the password is changed.

**LastPhrChange**

This field displays the user's last passphrase change date.

**PwdExpired**

This field indicates whether the password has expired. When the password has expired, the user must change the password at the next logon. The field presented takes into account the current date, the password interval of the user, the system-wide password interval, and the most recent password change date.

**PhrExpired**

This field indicates whether the passphrase of the user has expired.

**Interval**

The period in days after which the user needs to change the password.

**Owner**

The owner can change the user definition.

**DefaultGrp**

The default group is the group that the user automatically connects at logon.

**InstData**

This field has a site-defined layout and purpose. Typically it contains organizational data on the user ID. The InstData field might be replaced by site-specific fields, depending on the configuration used by your organization.

**Created**

Date on which the user is defined.

**MappingsCount**

The number of distributed identity filters that are associated with the user ID.

**LegacyPwdUsed**

This field indicates if the current user password is encrypted using a legacy algorithm. A legacy algorithm can either be DES or the algorithm as indicated by the ICHDEX01 password encryption exit (masking, DES, or installation-defined encryption method).

**LegacyPwdCount**

This field indicates how many passwords in the password history are encrypted using a legacy algorithm.

**Auth Method**

This field indicates the combination of authentication mechanisms to logon to RACF that are allowed for a user:

**Pwd**

User can use a password.

**PPhr**

User can use a passphrase.

**MFA**

User can use the MFA mechanism.

### Protected

User is a protected user.

### Password Fallback

This field indicates whether the user can logon to RACF with a password or passphrase if the MFA server is unavailable.

### PwdExpireDate

This field displays the password expiration date of the user. For users whose passwords have been explicitly expired, this field shows a date in the past. In such cases, it shows the last use date of the user. If the user ID has never been used, this field shows the creation date of the user ID.

### PhrExpireDate

This field displays the passphrase expiration date of the user. For users whose passphrases have been explicitly expired, this field shows a date in the past. In such cases, it shows the last use date of the user. If the user ID has never been used, this field shows the creation date of the user ID.

### Site-specific fields

Your organization's zSecure Visual Server might be configured to show site-specific fields with user information, such as Location, Building, Cost-center, zSecure user name, or other site-specific content. In that case, those fields are displayed between the **PhrExpireDate** and **Attempts** fields on the User table window.

The Find dialog for users window shows extra fields for selecting users:

Figure 23. Find dialog for users

**Name** A substring that must exist in the name.

### Installation data

A substring that must exist in the installation data.

### Owner

Select users by owner. The field is used as a filter.

### Default Group

Select users by default group. The field is used as a filter.



**Status** Select users that are revoked, not revoked, active, or inactive. If you select **Any**, you have the complete user list.

**Attempts**

Select users that have more or less than a certain number of password attempts. A blank field selects users independent of the number of password attempts.

**Segment**

Select the users that have the segment you specify. If this option is disabled, you cannot view segments or there are no segments. If you select **Any**, you have the complete user list, whether the profiles have segments or not.

**AuthMethod**

Select users based on the authentication methods; that is, Protected, Password, Password phrase, and MFA. You can select either protected or a combination of password, password phrase, or MFA. If you select nothing, you have the complete list of users.

If your organization's zSecure Visual Server is configured to show site-specific fields with user information, those fields are displayed on the right side of the Find dialog for users window.

## MFA Factor management

You can use the MFA Factors window to perform various MFA Factors administration tasks such as adding or deleting MFA Factors, activating or deactivating an MFA Factor, and editing Factor Tags.

**Note:** MFA Factors do not apply to protected users.

To manage MFA Factors, on the **User table** window(see Figure 22 on page 56), select a user profile. Right click and then select MFA Factors as indicated in the following sample:

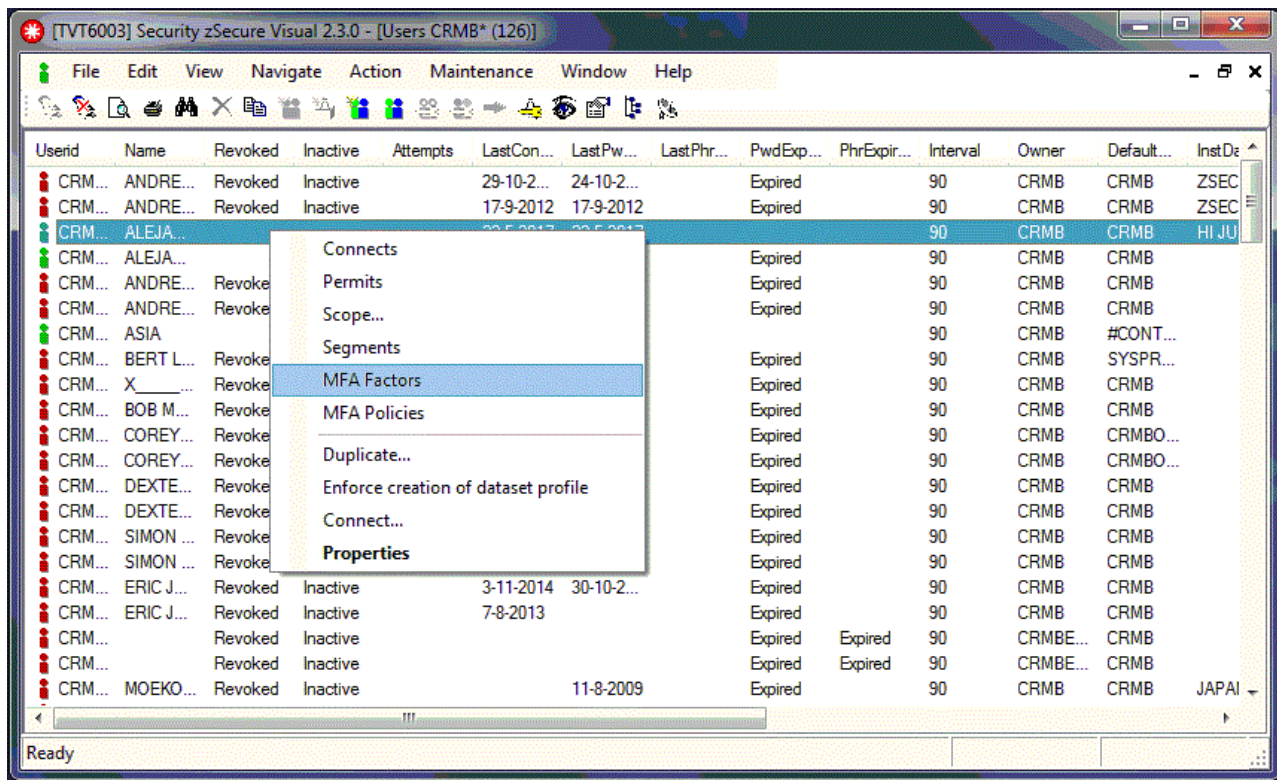


Figure 24. MFA User table

The **MFA Factors** dialog then lists all the factors and their corresponding factor tags. You can add Factors to or delete Factors from a user profile, edit Factor tags, and activate and disable Factors.

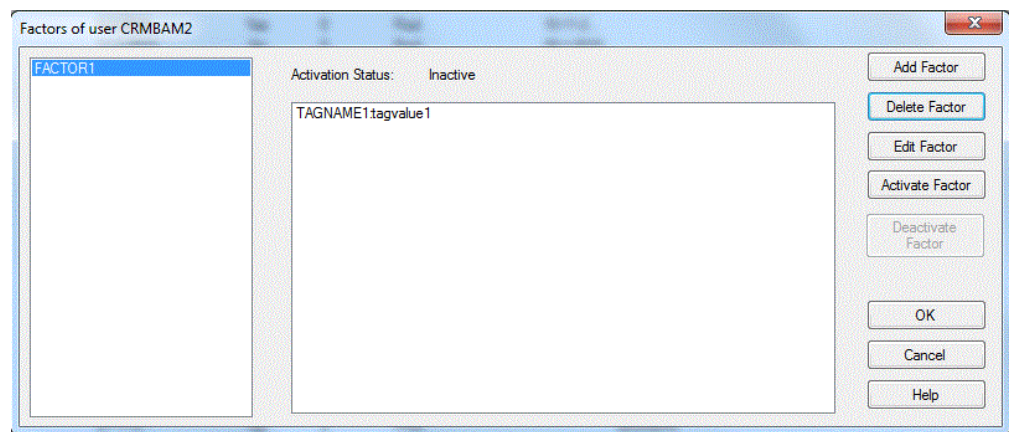


Figure 25. MFA Factors dialog

To add an MFA Factor to the user profile, perform the following steps:

1. On the **MFA Factors** dialog, click **Add Factors**. The **Add MFA Factors** window is displayed.

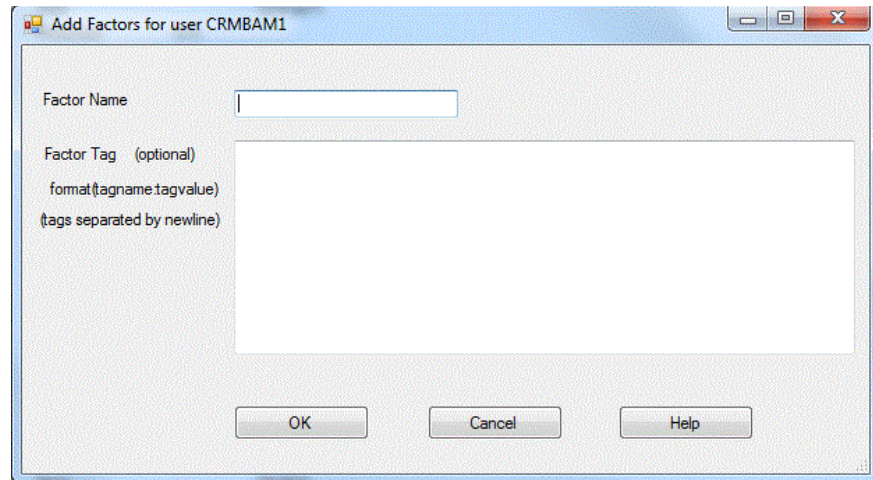


Figure 26. Add MFA Factors window

2. Enter the Factor Name in 20 characters or less.
3. Enter the list of Factor Tags in format *TagName:TagValue*, where *TagName* can be 20 characters or less and *TagValue* can be 1024 characters or less. Each Factor Tag must be on a new line.

To delete MFA Factors from the user profile, select the factors to be deleted on the **MFA Factors** dialog and click **Delete Factors**.

To edit MFA Factors, perform the following steps:

1. On **MFA Factors** dialog, click **Edit factor**. The **Edit MFA Factors** window is displayed.

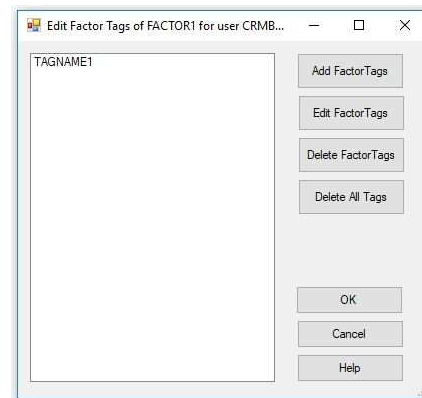


Figure 27. Edit MFA Factors window

2. To edit Factor Tags, select the Factor Tags and click **Edit Factor Tags**; this allows editing of the tags.
3. To add a Factor Tag to the MFA factor, click **Add Factor Tag** and follow the procedure of **Add Factors** as shown in the **MFA Factors** dialog.
4. To delete all Factor Tags from the MFA Factor, click **Delete All Tags**.
5. To activate a selected MFA Factor for use during logon, click **Activate Factor**.
6. To disable (or deactivate) a selected MFA Factor, click **Deactivate Factor**.

## MFA policy management

You can use the MFA Policies dialog to perform various policy administration tasks such as adding or deleting policies.

**Note:** MFA policies do not apply to protected users.

To manage MFA Policies, on the **User table** window(see Figure 22 on page 56), select a user profile. Right click and then select MFA Policies (see Figure 24 on page 60). The **MFA Policies** dialog is then displayed, listing all the policies that are available for a user. You can add policies to or delete policies from a user profile.

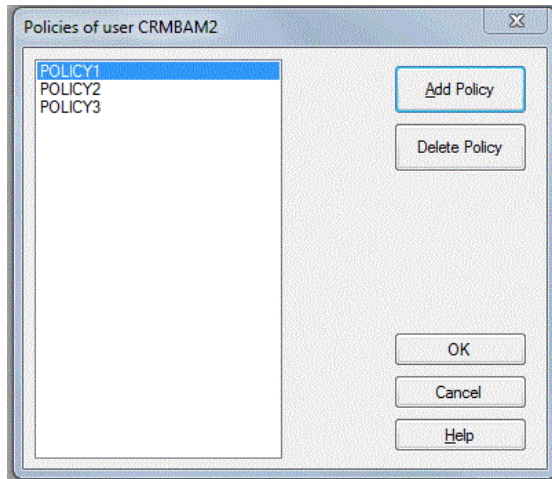


Figure 28. MFA Policies dialog

To add an MFA Policy to the user profile, perform the following steps:

1. On the **MFA Policies** dialog, click **Add Policy**. The **Add policy** dialog is displayed.

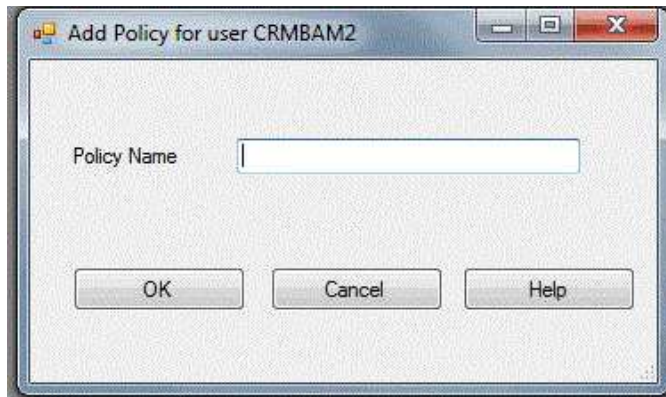


Figure 29. Add policy dialog

2. Enter the new policy name as defined in the MFA policy profile in the MFADEF class in 20 characters or less and click **OK**.

To delete a selected policy from the user's list of MFA policies, click **Delete Policy**.



---

## Viewing user properties

Use the User properties window to view and edit the attributes and status of users.

### About this task

The user property dialog presents the user properties in three categories: Attributes, More attributes, and Status.

Follow these steps to view the properties of a user.

### Procedure

1. Select **Navigate > Properties** from the main menu. You can also start with these actions:
  - Select and double-click the user.
  - Select the user from the user table and press **Enter**.
  - Right-click a user and select **Properties** from the pop-up menu.
  - Click **Properties** on the toolbar.

[ Complex: RRSF6003 Node: TVT6003 ] Properties of user ZTKQA001

Attributes | More Attributes | Status

Userid: ZTKQA001 Special: No

Name: Operations: No

Owner: ZTKQA Auditor: No

DefaultGrp: ZTKQA RO-Auditor: No

Installation data:

System test

OK Cancel Help

Figure 30. User properties dialog

If your organization configured four or less site-specific fields as a replacement for the installation data field, those fields are at the bottom of the dialog:

Figure 31. User properties dialog with site-specific fields

**Note:** If more than four site-specific fields are configured, or they are configured in addition to Installation data, those fields are shown in a panel with the separate tab named **Data**.

2. View or edit the fields as needed and click **OK** to accept the changes.

**Note:** Your level of authorization determines whether you can edit the user properties.

The following information is included in the header of the dialog only if you are operating in multi-system mode:

#### Complex

The name of the complex associated with the user ID.

**Node** The name of the node associated with the user ID.

These fields are displayed in the **Attributes** tab:

#### Userid

The RACF user ID.

**Name** Real name of the user, or any other description.

#### Owner

The owner can change the user definition.

#### DefaultGrp

The *defaultgroup* is the group that the user automatically connects to at logon.

#### Site-specific fields

If configured, displays one or more fields with user information that have site-specific names and content. The contents are read-only.

#### Installation data

The purpose and layout of this field are site-defined. Typically it contains organizational data on the user ID. The installation data field can contain as much as 255 characters. The field is displayed in multiple lines as it is when displayed by the RACF LISTUSER command: the first line contains 62 characters and the succeeding lines contain 80 characters. A changed installation data field can be composed of the separate lines. It is possible to change the font of this field, see "Setting display preferences" on page 25.

The Installation data field might be replaced by site-specific fields, depending on the configuration used by your organization.

**Special**

System-wide special attribute.

**Operations**

System-wide operations attribute.

**Auditor**

System-wide auditor attribute.

**RO-Auditor**

System-wide read-only auditor attribute.

**Protected**

This field indicates whether the user is a protected user.

In the **More attributes** tab, you see these fields:

**Security level**

Security level.

**Categories**

Security categories to which the user has access.

**Security label**

Security label.

**Class authorizations**

Class in which the user is authorized to define profiles.

In the **Status** tab, you see these fields or buttons:

**Revoked**

Revoked users cannot logon, but their profiles are still present. An administrator revokes the user, or the user is revoked automatically due to too many unsuccessful password attempts, or by scheduled actions. The status is derived from the revoke status flag, the current date, the revoke date, the resume date, and the last used date.

**Inactive**

An inactive user that tries to logon is revoked immediately. A user ID becomes inactive when it is not used for a period set by the SETROPTS INACTIVE command on the mainframe. The field presented takes into account the RACF inactive setting and the last use date.

**Note:** If a user ID is not used yet, it does not become inactive.

**Password expired**

This field indicates whether the password expires. When the password expires, the user must change the password at the next logon. The field presented takes into account the current date, the password interval of the user, the system-wide password interval, and the most recent password change date.

**Passphrase expired**

This field indicates whether the passphrase of the user has expired.

**Password interval**

The period in days after which the user must change the password.

**Password attempts**

Count of logon attempts with an invalid password. This count is only kept when the RACF user revoke setting is activated with the RACF

SETROPTS PASSWORD(REVOKE(*nn*)) command on the mainframe.  
After *nn* invalid password attempts, the user is revoked.

**Last password change**

The most recent date the password is changed.

**Last passphrase change**

This field displays the user's last passphrase change date.

**Last connect**

This field contains the last RACINIT date for any group the user is connected to.

**Note:** RACF uses a different date to calculate the inactivity interval of the user.

**Last logon**

The last time the user logs on to RACF.

**Created**

Date on which the user is defined.

**Mappings count**

The number of distributed identity filters that are associated with the user ID.

The **Data** tab is displayed only if your organization has configured the use of site-specific fields in addition to the use of the **Installation data** field or when more than four site-specific fields have been configured. If site-specific fields are used as a replacement to the **Installation data** field, and there are four or less site-specific fields configured, the site-specific data is displayed in the **Attributes** tab.

When you execute the corresponding commands on the mainframe, you can use these buttons and check box for actions on the user ID.

**Edit Default Password**

Opens the **Edit Default Password** dialog (see “Setting a default password (or passphrase)” on page 76).

**Edit Default Passphrase**

Opens the **Edit Default Passphrase** dialog; see Edit default passphrase dialog

**Resume**

Displays the **Resume** dialog. See “Resuming a user” on page 71.

**Set Password**

Displays the **Set Password** dialog. See “Setting passwords (or passphrases)” on page 74.

**Set Passphrase**

Displays the **Edit Passphrase** dialog; see Set password dialog.

**Switch Password fallback**

This option switches on password fallback if the password fallback is not enabled already and vice versa.

**Schedules**

Displays the **Schedules** dialog. See “About Schedules” on page 79.

**Mappings**

Displays the Mappings window. See “Mappings” on page 82.



---

## Duplicating a user

Use the **Duplicate user** window to create a new user from existing users.

### About this task

You can generate new users by duplicating an existing user. You can take the existing user as the prototype user.

**Note:** If you are operating in multi-system mode, you can duplicate users across zSecure nodes only; you cannot duplicate users across multiple RRSF nodes.

Duplicate user CRMBMT1 MADALINA TOMA

Userid: CRMBMT1 Name: MADALINA TOMA

Installation Data:

Userid: CRMBMT1 Name: MADALINA TOMA

Installation

Owner: CRMB Default Group: CRMB

Passwords or Passphrases (optional)

Password(or phrase): Confirm password(or phrase):

Default password(or phrase): Confirm default password(or phrase):

Additional Actions

☐ Enforce creation of dataset profile CRMBMT1.\*\* ☐ Set user as Protected

☐ Define Alias

☐ Do not duplicate OMVS Segment

Segments

KERB Kerberos name: OMVS UNIX user (uid): 129042

LNOTES IBM Notes short username: OMVS Initial program: /bin/sh

NDS NDS username: OMVS UNIX home path: /home/crmbtm1

DCE DCE UUID:

OK Cancel Help

Figure 32. Duplicate user dialog

### Procedure

To duplicate a user, follow these steps:

1. Select the prototype user in a user window and click **Action > Duplicate** in the main menu. You can also start with these actions:
  - Select a user and click **Duplicate** on the toolbar.
  - Right-click a user and select **Duplicate** from the pop-up menu.
2. Complete the fields in the dialog.

#### Userid

User ID of the new user.

**Name** Name of the new user.

**Installation data**

Installation data of the new user.

**Owner**

Owner of the new user.

**Default Group**

Default group of the new user. The default group must be one of the connected groups of the prototype user.

**Passwords or passphrases (optional)**

The passwords or passphrases fields are optional.

**Password (or phrase)**

Password (or phrase) of the new user.

**Confirm password (or phrase)**

Confirmation of the password (or phrase) of the new user.

**Default password (or phrase)**

Optional. Default value that you can set for the new user password (or phrase). For more information, see "Setting a default password (or passphrase)" on page 76.

**Confirm default password (or phrase)**

Confirms the value specified for the default password (or phrase). Must be equal to the default password (or phrase).

**Additional Actions****Enforce creation of dataset profile**

Create a generic data set profile with the new user ID as High Level Qualifier or HLQ. It has the new user ID as owner and a UACC of none. This command is also available on the Action menu.

**Note:** If the existing, prototype user already has one or more data set profiles with the HLQ equal to the user ID, these profiles can be copied instead. It is done regardless whether the check box here is on or off.

**Define Alias**

Defines an alias for the user pointing to the user catalog. You must know the user catalog data set name to use this option. This command is also available on the Action menu.

**Note:** This action attempts to retrieve the user catalog data set name by searching the XFACILIT class or the class configured as the Site Module general resource class during the server setup, as described in the *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide*. It looks for profiles with names starting with "CKG.UCAT." using the SHOW MYACCESS command. If one or more such profiles are found, this option can be activated. If more than one data set name is found, you are prompted to select one of them when activating the option.

**Do not duplicate OMVS Segment**

Prevents the duplication of the OMVS Segment of the existing user.

### **Set user as Protected**

Sets the duplicated user as a protected user.

### **Segments**

Use the segment fields to store information about specific subsystems or components of z/OS. If these segments are present for the original profile, the values are copied to the new user profile.

Some of these values must be changed while others can remain the same. If no value exists for the duplicated user or the segment is not in your scope, the field is disabled. For more information about authorities needed to manage segments, see "Authorities and settings required to manage segments" on page 127.

The fields shown in the panel are just a subset of all fields that are present in the segments. All other fields in your scope are copied unchanged. The segment fields are divided into two columns.

In the left column, you can find the segments that need **unique** values; you must change the value for the new user profile:

#### **KERB Kerberos name**

KERB KERBNAME field that defines the local Kerberos principal name of the user.

#### **LNOTES IBM Notes short username**

LNOTES SNAME field indicating the short name as found in the IBM Notes® address book. LNOTES stands for IBM Notes.

#### **NDS username**

NDS UNAME field defining the user name as stored in the Novell Directory Services for z/OS directory.

In the right column, you can find the other segment fields. These values do not need to be unique per user profile:

#### **OMVS UNIX user (uid)**

OMVS UID field with the user identifier. To have the system assign an unused value, use "auto." If you want more than one user to share the UID, add "s" at the end of the UID value.

#### **OMVS Initial program**

OMVS PROGRAM field describing the path name of the first program to be started when a z/OS UNIX session is started.

#### **OMVS UNIX home path**

OMVS HOME field defining the hierarchical file system (HFS) or z/OS file system (zFS) directory path name of the working directory.

#### **DCE UUID**

DCE UUID field indicating the principal name of the user as defined in the DCE registry.

3. Click **OK** to start the duplication, or click **Cancel** to quit the dialog without changes. The field values are validated to determine whether the unique fields differ from the original values. If no field is changed, this warning displays and the dialog is not closed:

Please change the <Name> field. It needs to be unique for this system.

**Note:** There is no check whether the value is unique in the RACF database. Checking on this scale triggers a full database read, which can consume system and network resources for an extended period.

4. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of zSecure nodes. You cannot duplicate a user across multiple RRSF nodes. If you have performed an action already, the zSecure nodes that you selected previously are displayed. Complete these steps if you are using multi-system mode:
  - a. Specify the nodes to which the action applies. You must select at least one node to continue. The local node entry is highlighted.
  - b. Click **OK** to verify the selected list of nodes. The action is performed for each selected node.

---

## Deleting a user

Use the **Delete user** dialog to revoke access for one or more users.

### About this task

You cannot delete users from the RACF database if you are using zSecure Visual. However, you can revoke their access by marking them for deletion. You can revoke access for one or more selected users.

Follow these steps to revoke user access.

### Procedure

1. Select a user ID and click **Action > Delete** in the main menu. You can also revoke user access using these actions:
  - Right-click a user ID to display the pop-up menu and select **Delete**.
  - Select a user ID and click **Delete** from the toolbar.
  - Drop the users on the Recycle Bin.
2. Enter a reason for the deletion. This reason is displayed if you undo a **Delete**.
3. Click **OK**, or click **Cancel** to quit the dialog to discard any changes. The selected user IDs are disabled in the \$DELETE schedules of the users.

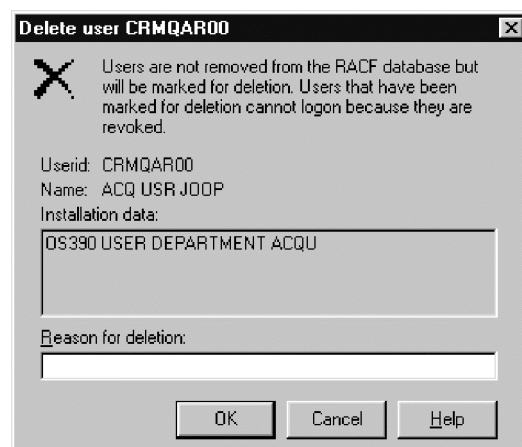


Figure 33. Mark user for deletion dialog

If you are using multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. If you have performed an action already, the nodes that you selected previously are displayed. Complete these steps if you are using multi-system mode:

- a. Specify the nodes to which the action applies. You must select at least one node to continue. The local node entry is highlighted.
- b. If a node is defined as a zSecure node and an RRSF node, select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the drop-down list an alternative user ID to run the command.
- c. Click **OK** to verify the selected list of nodes. The action is performed for each selected node.

## Results

To undo **Delete**, go to the schedules of the user and delete the disabled action in the \$DELETE schedule. If there are no other scheduled actions, you must also resume the user. A related dialog is displayed in that case.

---

## Resuming a user

Use the **Resume user** dialog to resume a user that has revoked status. The steps are described in this topic.

### About this task

A resume resets the revoke status of the user. It succeeds only if the revoke is not due to scheduled actions. In that case, you must delete the scheduled action.

To resume one or more users in single-node mode, complete these steps.

### Procedure

1. Select the user IDs and click **Action > Resume** from the main menu. You can also use these actions:
  - Right-click the user IDs to display the pop-up menu and select **Resume**.
  - Select the user IDs and click **Resume** on the toolbar.

The **Resume user userid userid** dialog is displayed for one of the users you selected:

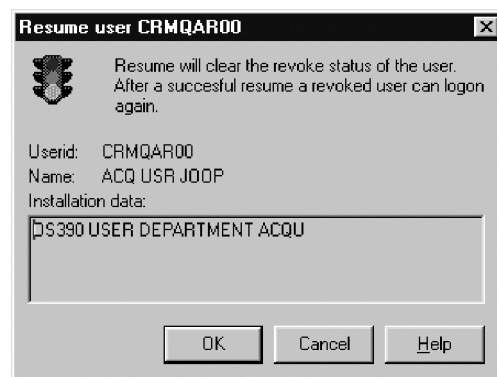


Figure 34. Resume user dialog

2. Click **OK** to invoke the resume, or click **Cancel** to return to the previous dialog.
3. If you are resuming two or more users, the **Resume user *userid*** dialog is displayed for each user you select. Click **OK** in each dialog to finish resuming all selected users.

---

## Disabling a user

Use the **Disable user** dialog to prevent a user from logging on.

### About this task

You can disable a user from logging on. The disabling schedule starts the same day you set the option. To use this option, you need UPDATE or better on resource CKG.CMD.USER.REQ.SCHEDULE and at least one schedule in your scope, excluding the reserved \$DELETE schedule.

To disable a user, follow these steps:

### Procedure

1. Select a user ID from the main menu.
2. Select **Action > Disable**, or right-click a user ID and select **Disable** from the pop-up menu:

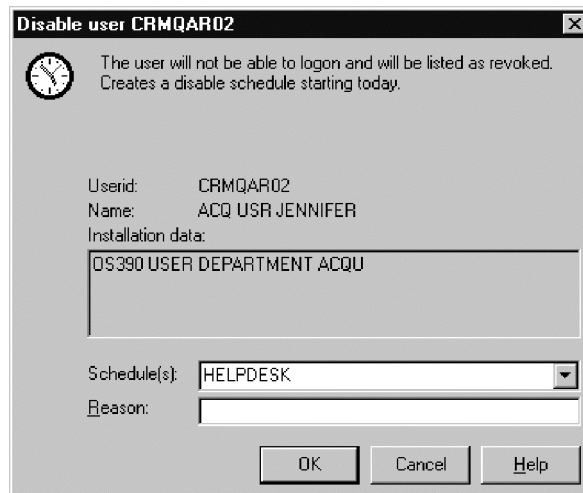


Figure 35. Disable user dialog

If you are operating in multi-system mode, the node associated with the user is displayed in the header of the dialog.

3. Enter the reason for disabling the user. If the user is already disabled, the reason can be shown in the **Details** field.
4. Click **OK** to finish.

---

## Enabling a user

Use the **Enable user** dialog to enable a revoked or disabled user to log on.

## About this task

You can enable a revoked or disabled user to log on again. When enabling a user, any schedule that disables the user expires. If there is more than one schedule available to enable the user, you can select any one of them from the selection list.

To use this option, you need UPDATE or better on resource CKG.CMD.USER.REQ.SCHEDULE and at least one schedule in your scope, excluding the reserved \$DELETE schedule.

To enable a user, follow these steps:

## Procedure

1. Select a user ID and select **Action > Enable** from the main menu, or right-click a user ID and select **Enable** from the pop-up menu:

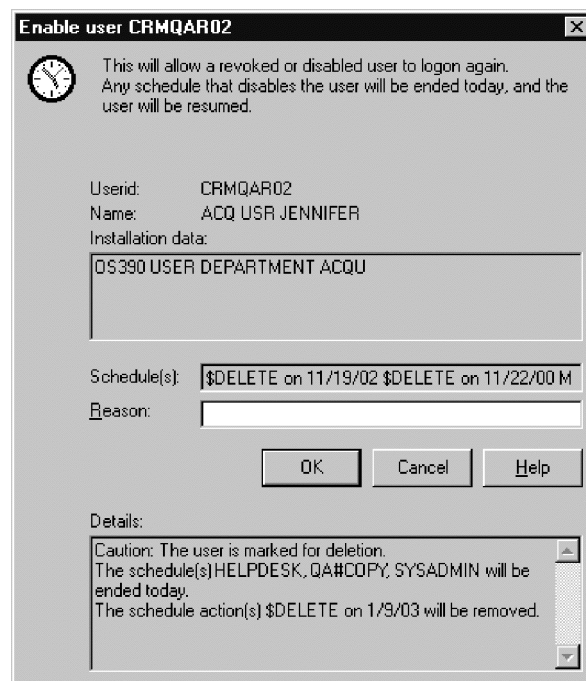


Figure 36. Enable user dialog

If you are operating in multi-system mode, the node associated with the user is displayed in the header of the dialog.

2. Enter the reason for enabling the user. If a future schedule disables the user again, the reason can be shown in the **Details** field. If no schedules exist to disable the user, a dialog is displayed to do a normal resume.

**Note:** The **Enable** user dialog is displayed even if you do not have the authority to resume.

3. If the user is marked for deletion, confirm the enabling action. Once confirmed, the user is no longer marked for deletion. If the user is disabled with one or more schedules that are out of your scope, an error message is displayed that lists the out-of-scope schedules.
4. Click **OK** to finish.

5. To enable users on multiple systems, select each user individually in the list of users, then repeat these steps.

---

## Setting passwords (or passphrases)

Set or reset the user password or passphrase with the **Set Password** or **Set passphrase** dialog.

### About this task

The procedure for setting a passphrase is very similar to the procedure for setting a password. Therefore, to set a passphrase, follow the procedures for setting a password in this section, but use the Set passphrase dialog instead of the Set password dialog:

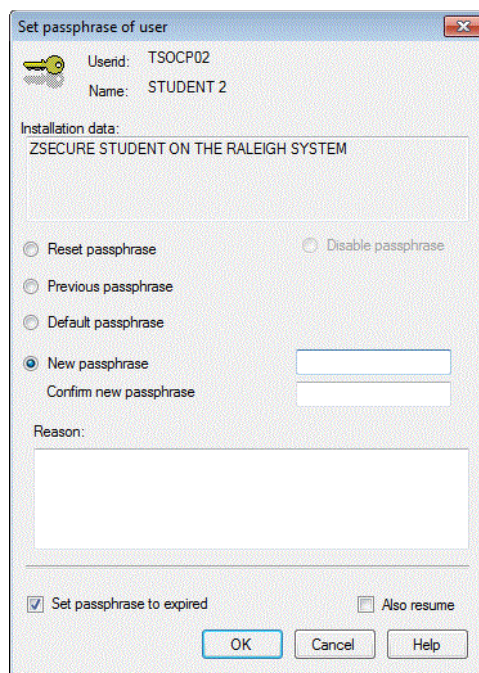


Figure 37. Set passphrase dialog

### Procedure

To set a password, follow these steps:

1. Select a user ID and select **Action > Set Password** from the main menu. You can also start with these actions:
  - Right-click a user ID to display the pop-up menu and select **Set Password**.
  - Select a user ID and click **Set Password** on the toolbar.



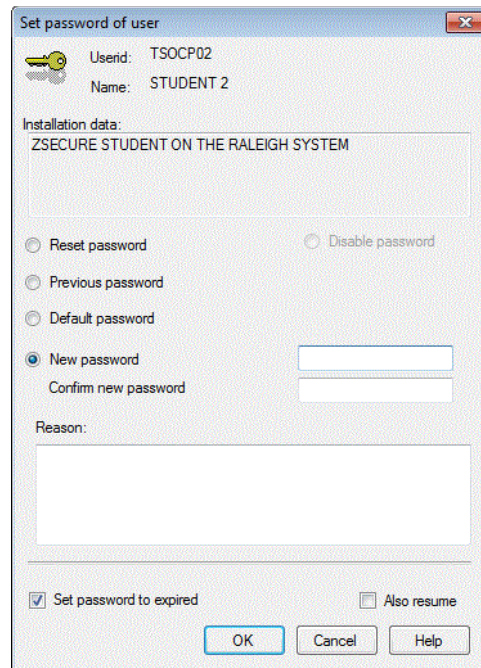


Figure 38. Set password dialog

If you are operating in multi-system mode, the complex and node associated with the user is displayed in the header of the dialog.

The available options and checkboxes depend on your update access level. If your client display is set to **Disable desired unauthorized functions**, you can view the unavailable options. If your client display is set to **Hide desired unauthorized functions**, you see only the available options and checkboxes. See "Setting interface options according to your access level" on page 27. The next step describes all possible options and checkboxes.

2. Complete the appropriate fields in the dialog.

#### Reset Password

Sets the password to the default password and sets the password to "expired."

#### Previous password

Sets the password back to the previous value. This setting works only if a password history is maintained in RACF and the user remembers the previous password.

#### Default password

Sets the password to the default password that the administrator set previously.

#### New password

Sets the password to a new value. You must confirm the new value by retyping it in the **Confirm new password** field. This value must be compliant with the password rules. It must not occur in the password history unless you have the necessary access to the corresponding resources to bypass these checks. See *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide* for more information about specifying passwords.

**Reason**

Logs the reason why the password is changed. Depending on company policy, input might be required. Examples are: *Forgotten password*, *Never used*, and *Revoked*.

**Set password to expired**

When this option is active, the new password becomes expired. When the user logs on, the user has to specify a new password.

**Also resume**

Resumes the user ID when resetting the password. When the user is revoked due to too many unsuccessful password attempts, a resume is required to enable the logon again. Use Resume to avoid setting the password.

**Disable password**

This option can be selected to disable the password. This option is disabled if the user does not have a password.

**Set user as protected**

This option can be selected to make the user protected. This option is disabled if the user is already a protected user.

3. Click **OK** to finish, or click **Cancel** to quit the dialog without changes. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. If you have performed an action already, the nodes that you selected previously are displayed.
4. Complete these steps if you are using multi-system mode:
  - a. Specify the nodes to which the action applies. You must select at least one node to continue. The local node entry is highlighted.
  - b. If a node is defined as a zSecure node and an RRSF node, select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the drop-down list an alternative user ID to run the command.
  - c. Click **OK** to verify the selected list of nodes. The action is performed for each selected node.

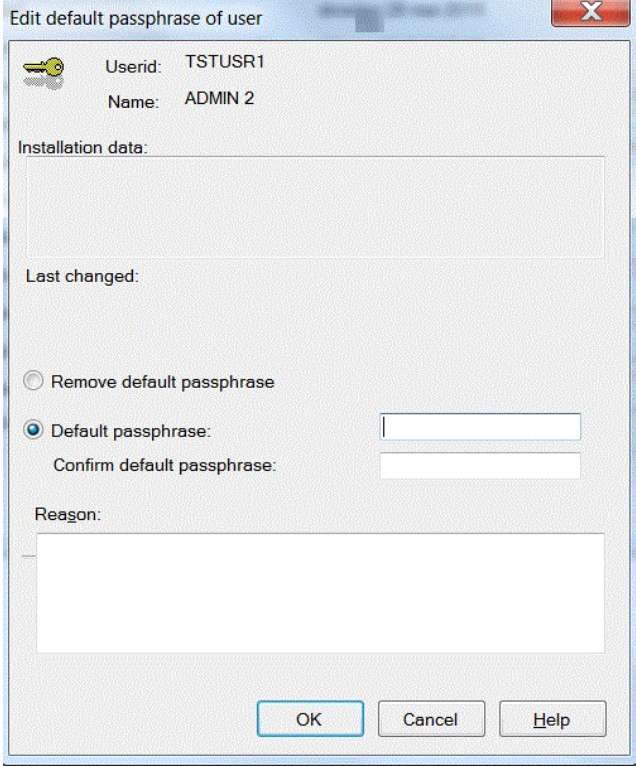
---

## Setting a default password (or passphrase)


Use the **Edit default password** or **Edit default passphrase** dialog to set the default password or passphrase for a user.

**About this task**

The procedure for setting a default passphrase is very similar to the procedure for setting a default password. Therefore, to set a default passphrase, follow the procedures for setting a default password in this section, but use the **Edit default passphrase** dialog instead of the **Edit default password** dialog:



**Edit default passphrase of user**


 Userid: TSTUSR1  
 Name: ADMIN 2

Installation data:

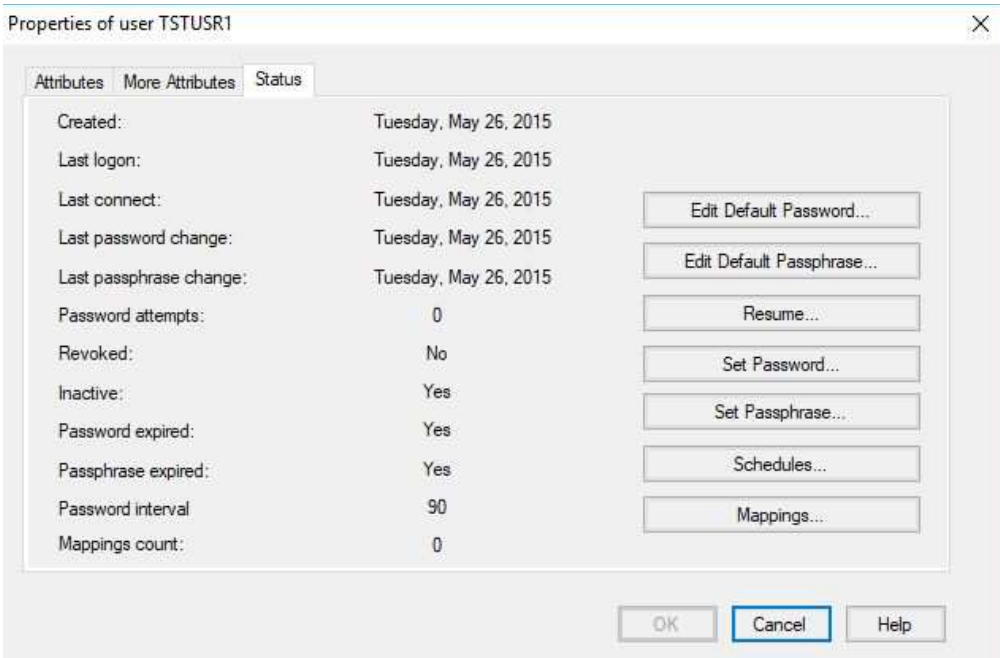
Last changed:

☐ Remove default passphrase  
☒ Default passphrase:   
 Confirm default passphrase:

Reason:

Figure 39. Edit default passphrase dialog

The default password (or passphrase) is a fixed value that the user can set. By default, the default password (or passphrase) is set system-wide. It is outside the scope of zSecure Visual. However, it is more secure to set an individual default password (or passphrase) for each user, especially for users with important roles.



**Properties of user TSTUSR1**

Attributes | More Attributes | **Status**

Created:	Tuesday, May 26, 2015	<input type="button" value="Edit Default Password..."/> <input type="button" value="Edit Default Passphrase..."/> <input type="button" value="Resume..."/> <input type="button" value="Set Password..."/> <input type="button" value="Set Passphrase..."/> <input type="button" value="Schedules..."/> <input type="button" value="Mappings..."/>
Last logon:	Tuesday, May 26, 2015	
Last connect:	Tuesday, May 26, 2015	
Last password change:	Tuesday, May 26, 2015	
Last passphrase change:	Tuesday, May 26, 2015	
Password attempts:	0	
Revoked:	No	
Inactive:	Yes	
Password expired:	Yes	
Passphrase expired:	Yes	
Password interval:	90	
Mappings count:	0	

Figure 40. Status

To set the default password, perform these steps:

### Procedure

1. Select a user ID and select **Navigate > Properties** from the main menu to open the properties dialog.
2. Select the **Status** tab.
3. Click **Edit Default Password** to open the **Edit Default Password** dialog.

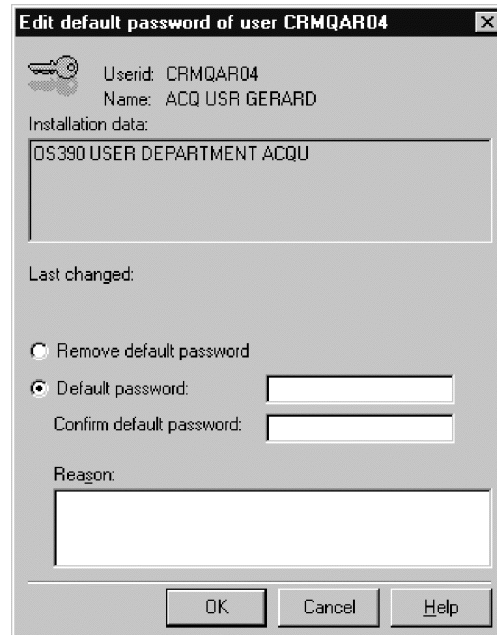


Figure 41. Edit default password dialog

4. Check the **Default Password** box.
5. Type and confirm the default password.
6. Optionally, enter the reason why the default password is changed.
7. Click **OK** to finish, or click **Cancel** to quit the dialog without changes.
8. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. If you have performed an action already, the nodes that you selected previously are displayed. Complete these steps if you are using multi-system mode:
  - a. Specify the nodes to which the action applies. You must select at least one node to continue. The local node entry is highlighted.
  - b. If a node is defined as a zSecure node and an RRSF node, select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the drop-down list an alternative user ID to run the command.
  - c. Click **OK** to verify the selected list of nodes. The action is performed for each selected node.

---

## Removing the default password (or passphrase)

Use the **Edit default password** or **Edit default passphrase** dialog to remove the default password or passphrase for a user.

## About this task

Removing or changing the default password (or passphrase) does not affect the normal password (or passphrase). The normal password (or passphrase) changes to the default password (or passphrase) only if it is reset to it. If you change the default password (or passphrase) after resetting, it does not affect the normal password (or passphrase); it retains the old default value.

The procedure for removing a passphrase is very similar to the procedure for removing a password. Therefore, to remove a passphrase, follow the procedures for removing a password in this section, but use the Edit default passphrase dialog instead of the Edit default password dialog:

## Procedure

You can remove the default password using these steps:

1. Select a user ID and select **Navigate > Properties** from the main menu to open the properties dialog.
2. Select the **Status** tab.
3. Click **Edit Default Password** to open the **Edit Default Password** dialog.
4. Select the **Remove Default Password** box.
5. Optionally, enter the reason why the default password is removed.
6. Click **OK**. When a default password is set, the **Edit default password** dialog displays this information:
  - The user ID of the person who changed the password
  - The date and time of the change

---

## About Schedules

Use schedules to specify intervals during which a user is revoked or resumed.

The only way to revoke a user in zSecure Visual is to use schedules. Schedules are a facility provided by the CKGRACF mainframe program that enables different groups of administrators to set the revoke status of a user.

You can separately revoke and resume a user, or you can combine these two actions. These are called intervals. The CKGRACF program updates the revoke flags of the user based on the schedules. A disabling interval starts with a revoke and ends with a resume. An enabling interval starts with a resume and ends with a revoke. A single revoke or resume corresponds with an interval without an end date. All actions of an interval are written to the RACF database, together with the schedule name, date, author, and reason. The schedule name is categorize intervals. New intervals wipe previous conflicting actions only in the same schedule. When all past scheduled actions are deleted, CKGRACF leaves the user's revoke status unchanged.

The equivalent of revoking a user is Disable from today forever. The equivalent of deleting a user is Disable from today forever with schedule name \$DELETE. The deletion is sent to the mainframe after you click OK in the schedules dialog.

Users are only able to log on when all scheduled actions enable them to. Schedules can be set by centralized and decentralized administrators. When given access to

just a part of the defined schedule names while others reserved for centralized administrators only, decentralized administrators cannot undo intervals set by a centralized administrator.

## Viewing and editing schedules

Use the **Schedules** dialog to view, set, or edit schedules that revoke or resume users.

### Procedure

- To view the schedules of a user, perform one of these steps:
  1. Select the user and select **Navigate > Schedules** from the main menu.
  2. Right-click the user to display the pop-up menu and select **Schedules**.
  3. Select the user and click **Schedules** on the toolbar.



Figure 42. Schedules dialog

A schedule dialog window displays these columns:

**Name** Name of the schedule.

**Type** Type of the interval, either Enable or Disable.

**Start** Start date of the interval.

**End** End date of the interval.

**Reason column**  
Reason of the schedule.

**Author**  
Administrator who enters the schedule.

**Created**  
Date and time the author enters the interval.

- To edit schedules, perform these steps:
  1. Click **Add** to add an interval to the table.
  2. Select an interval and click **Repeat** to enter a similar interval in the table.
  3. Select an interval and click **Delete** or press the **Delete** key to delete an interval from the table.
  4. After you edit schedules, click **OK** to apply the changes to the RACF database, or click **Cancel** to cancel the changes.

## Adding a schedule interval

Use the **Add schedule** dialog to add a new schedule that enables or disables a user.

### Procedure

To add a schedule interval, follow these steps:

1. Select a user and select **Navigate > Schedules > Add** from the main menu. The **Add schedule interval** dialog displays.

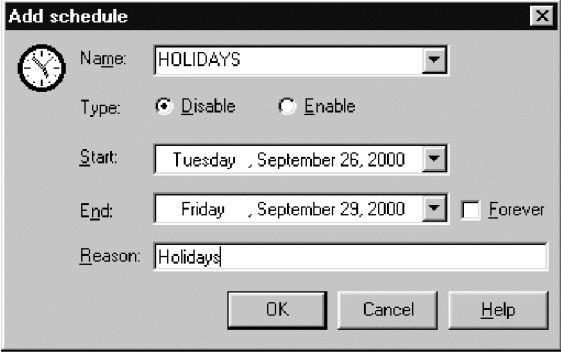


Figure 43. Add schedule interval dialog

2. Enter the fields and click **OK** to add the schedule to the table. The new schedule interval becomes active after clicking **OK** in the **Schedules** dialog.

The dialog contains these fields:

- Name** Name of the schedule. You can select one of the predefined names or type a new name.
- Type** Select **Disable** to disable the user for a certain period, select **Enable** to enable the user.
- Start** Enter the start date of the interval. The start date is included in the interval.
- End** Either enter an end date, or select **Forever** to indicate there is no end date for this interval. The end date is included in the interval.
- Reason**  
Enter a reason for the enabling or disabling the user.

## Repeating a schedule interval

Use the **Repeat** function to make a new schedule based on an existing schedule.

You cannot edit an existing schedule, but with the **Repeat** function, you can make a new schedule based on the existing one. If the existing schedule and the new schedule overlap, the program creates a new schedule. The new schedule begins at the earliest start date and ends at the last termination date.

To create a new schedule using the existing schedule, select **Navigate > Schedules > Repeat** from the main menu.

## Deleting a schedule interval

Use the **Delete schedule** dialog to delete an existing schedule interval.

## Procedure

To delete a schedule, follow these steps:

1. Select a schedule interval and click **Delete**.

The **Delete schedule** interval dialog displays the properties of the schedule.

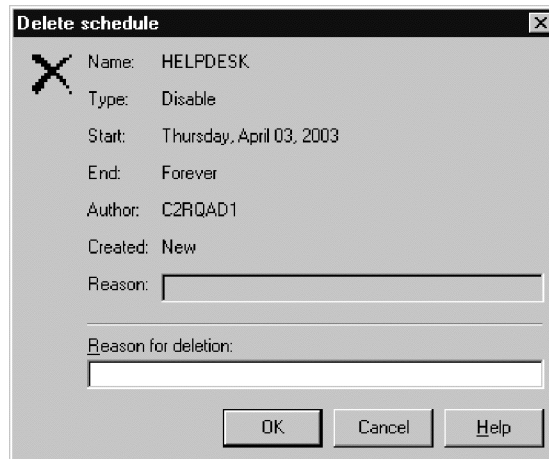


Figure 44. Delete schedule interval dialog

2. For auditing purposes, enter a reason for the deletion.
3. Click **OK** to delete the schedule interval. The deletion is sent to the mainframe after you click **OK** in the schedules dialog.

---

## Mappings

Use mapping profiles to determine the distributed identity filters associated with RACF user IDs.

RACF supports distributed identity filters which are mapping associations between a RACF user ID and one or more distributed user identities, as they are known to Web-based application servers and defined in distributed user registries. The **Mappings** window provides the information about distributed identity filters associated with the RACF user ID. These filters are in fact the IDIDMAP profiles. For the remainder of this chapter, such profiles are referred as mapping profiles.

### Viewing mappings

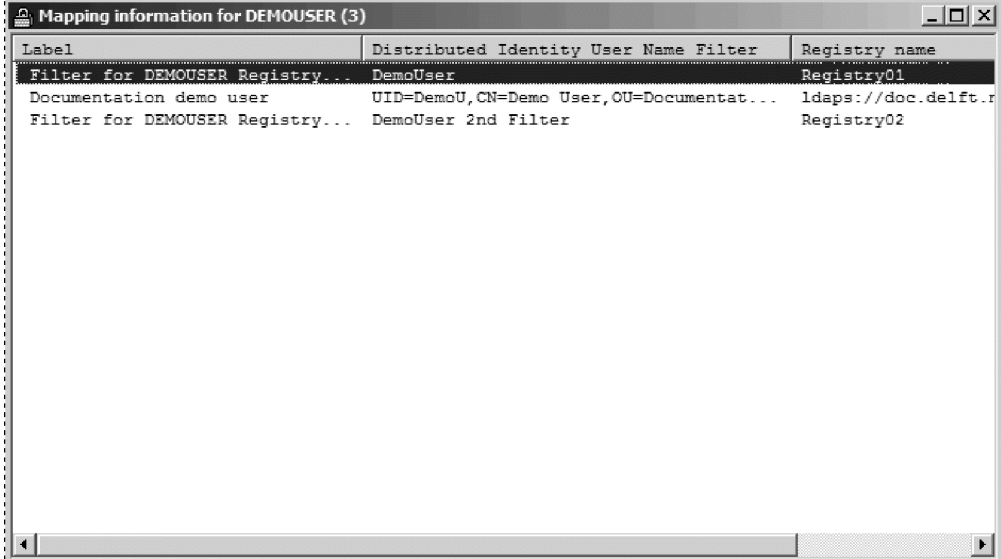
Use the various **Mappings** selections to view information about the mapping profile of a user.

## Procedure

To view mapping information of a user, perform one of these steps:

- Select the user and select **Navigate > Mappings** from the main menu.
- Right-click the user to display the pop-up menu and select **Mappings**.
- Click the **Mappings** button on the **User Properties** dialog.





Label	Distributed Identity User Name Filter	Registry name
Filter for DEMOUSER Registry...	DemoUser	Registry01
Documentation demo user	UID=DemoU,CN=Demo User,OU=Documentat...	ldaps://doc.delft...
Filter for DEMOUSER Registry...	DemoUser 2nd Filter	Registry02

Figure 45. Mapping information for a user

A Mappings window displays these columns:

**Label** The label associated with this mapping profile.

**Distributed Identity User Name Filter**  
The name of the mapping profile.

**Registry name**  
The registry name of the mapping profile.



## Chapter 5. Group management

You can use IBM Security zSecure Visual to display, add, duplicate, and delete groups. These tasks are described in the following topics.

“Group table”

You can review group data, such as owner and connected users, in the Groups table.

“Viewing group properties” on page 87

Use the **Properties of group** window to view and edit the attributes and status of groups.

“Adding a subgroup” on page 89

Use the **Add subgroup** dialog to add a new subgroup to a group.

“Duplicating a group” on page 91

Use the **Duplicate group** window to create a new group from an existing group.

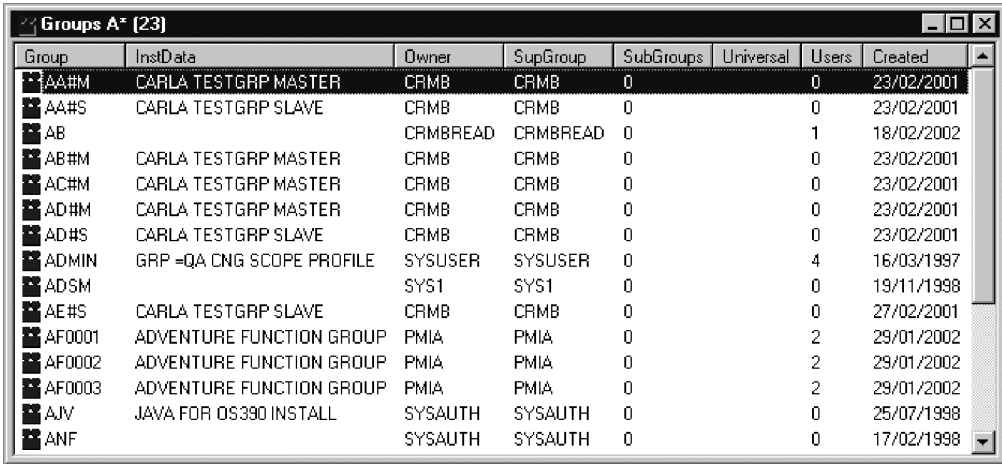
“Deleting a group” on page 94

Use the **Delete group** dialog to delete a group or to prevent users from using the group (incomplete deletion).

### Group table

You can review group data, such as owner and connected users, in the Groups table.

Use the **Find** dialog to view a list of groups. A group is displayed in two colors, blue as default and gray when the installation data of the group is not yet loaded.



Group	InstData	Owner	SupGroup	SubGroups	Universal	Users	Created
AA#M	CARLA TESTGRP MASTER	CRMB	CRMB	0		0	23/02/2001
AA#S	CARLA TESTGRP SLAVE	CRMB	CRMB	0		0	23/02/2001
AB		CRMBREAD	CRMBREAD	0		1	18/02/2002
AB#M	CARLA TESTGRP MASTER	CRMB	CRMB	0		0	23/02/2001
AC#M	CARLA TESTGRP MASTER	CRMB	CRMB	0		0	23/02/2001
AD#M	CARLA TESTGRP MASTER	CRMB	CRMB	0		0	23/02/2001
AD#S	CARLA TESTGRP SLAVE	CRMB	CRMB	0		0	23/02/2001
ADMIN	GRP =QA CNG SCOPE PROFILE	SYSUSER	SYSUSER	0		4	16/03/1997
ADSM		SYS1	SYS1	0		0	19/11/1998
AE#S	CARLA TESTGRP SLAVE	CRMB	CRMB	0		0	27/02/2001
AF0001	ADVENTURE FUNCTION GROUP	PMIA	PMIA	0		2	29/01/2002
AF0002	ADVENTURE FUNCTION GROUP	PMIA	PMIA	0		2	29/01/2002
AF0003	ADVENTURE FUNCTION GROUP	PMIA	PMIA	0		2	29/01/2002
AJV	JAVA FOR OS390 INSTALL	SYSAUTH	SYSAUTH	0		0	25/07/1998
ANF		SYSAUTH	SYSAUTH	0		0	17/02/1998

Figure 46. Groups table

The list of groups has these columns:

#### Complex

The name of the zSecure node where the result was found. This column is displayed only if you are operating in multi-system mode.

**Group** The ID of the RACF group.

**InstData**

The purpose and layout of this field are site-defined. Typically it contains organizational data on the group.

**Owner**

The owner can change the group definition.

**SupGroup**

The superior group of the group. All groups except group SYS1 belong to one superior group.

**SubGroups**

Number of subgroups of the group. A subgroup is a group that belongs to another group.

**Universal**

A universal group can have an unlimited number of users with USE authority connected to it.

**Note:**

1. A group can be created as a universal group. It is not possible to change the attribute after creation.
2. In most cases, it is not possible to delete a universal group.
3. The old limitation of 5957 connections is still valid for users with authority higher than USE or with the attributes SPECIAL, OPERATIONS, or AUDITOR at the group level.
4. For universal groups, the Connected Users table shows only the users with authority higher than USE or with the attributes SPECIAL, OPERATIONS, or AUDITOR at the group level.
5. On sites where universal groups are not yet supported, the Universal column or field stays empty and disabled.

**Users** Number of users connected to the group.

**Created**

Date of creation of the group.

The extra selection fields for groups in the **Find** dialog are:

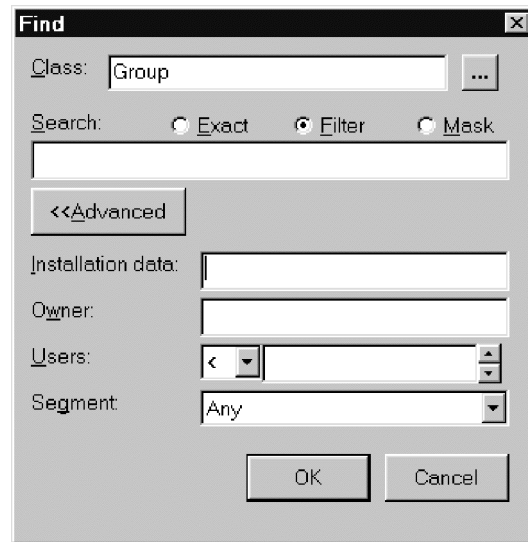


Figure 47. Find dialog for groups

#### Installation data

A substring that appears in the installation data.

#### Owner

Select groups by owner. The field is used as a filter.

**Users** Select groups that have more or less than a certain number of connected users. A blank in the number field selects groups independently of this number. Typing < or > in the number field selects the corresponding operator.

#### Segment

Select the groups that have the segment you specified. If this option is disabled, you cannot view segments or there are no segments. The option ANY gives you the complete group list, whether the profiles have segments or not.

---

## Viewing group properties

Use the **Properties of group** window to view and edit the attributes and status of groups.

### About this task

The Group properties dialog provides detailed information about a specific group.

To view the properties of a group, perform these steps.

### Procedure

1. Select a group and select **Navigate > Properties** from the main menu.

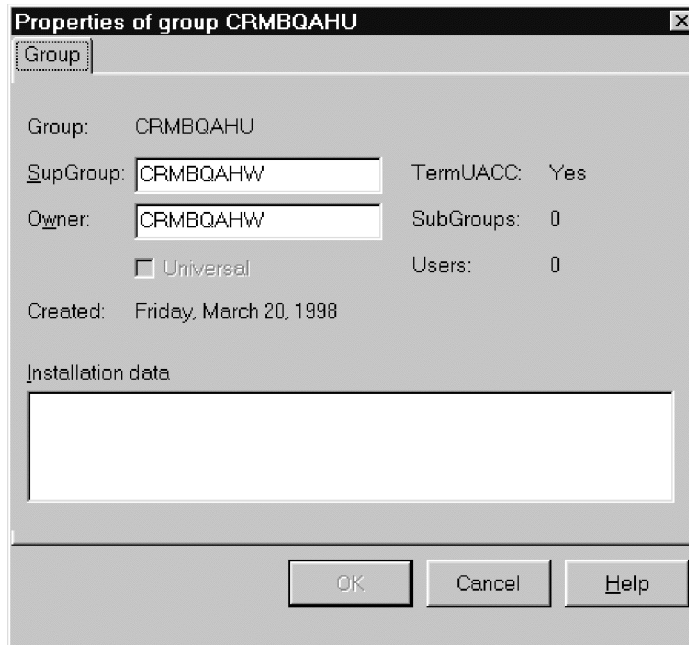


Figure 48. Group properties dialog

2. Double-click on the group.
3. Select a group and press **Enter**.
4. Right-click a group and select **Properties** from the pop-up menu.
5. Select a group and click **Properties** on the toolbar.

The following information is included in the header of the dialog only if you are operating in multi-system mode:

**Complex**

The name of the complex associated with the user ID.

**Node** The name of the node associated with the user ID.

The **Properties** dialog contains these fields:

**Group** The ID of the RACF group.

**SupGroup**

The superior group of the group. All groups except group SYS1 belong to one superior group. You can change this field to another existing group name.

**TermUACC**

Terminal access is granted through the UACC of TERMINAL profiles, as well as through access list entries.

**Owner**

The owner can change the group definition. You can change this field for another existing group name.

**SubGroups**

Number of subgroups of the group. A subgroup is a group that belongs to another group.

**Universal**

A universal group can have an unlimited number of users with USE authority connected to it. This field is read-only.

**Note:**

- a. A group can be created as universal group. It is not possible to change the attribute after creation.
- b. In most cases, it is not possible to delete a universal group.
- c. The old limitation of 5957 connections is still valid for users with authority higher than USE or with the attributes SPECIAL, OPERATIONS, or AUDITOR at the group level.
- d. For universal groups, the Connected Users table shows only the users with authority higher than USE or with the attributes SPECIAL, OPERATIONS, or AUDITOR at the group level.
- e. On sites where universal groups are not yet supported, the Universal column or field stays empty and disabled.

**Created**

Date of creation of the group.

**Installation data**

The purpose and layout of this field are defined by your organization. You can change the contents of this field.

---

## Adding a subgroup

Use the **Add subgroup** dialog to add a new subgroup to a group.

### Procedure

To add a new subgroup to group, complete these steps:

1. Select a group and select **Action>Add subgroup** from the main menu. You can also start with these actions:
  - Click **Add subgroup** on the toolbar.
  - Right-click a group and select **Add subgroup** from the pop-up menu.

Figure 49. Add subgroup dialog

The following information is displayed for your reference:

**Complex: Node**

The complex and node names to which this action applies are displayed in the header of the dialog only if you are operating in multi-system mode.

**Group** Displays the name of the group to which you are adding a subgroup.

**Supgroup**

Displays the supergroup of the group to which you are adding a subgroup.

**Universal**

Indicates whether the selected group is a universal group.

**Installation Data**

Displays the data for the group to which you are adding a new subgroup.

2. Change these fields as needed:

**New group**

**Group** Required. You must change the name from the copied name to a new name.

**Installation Data**

Required. You must change the copied data to new data.

**Additional Actions**

**Enforce creation of data set profile**

Optional. Creates a generic data set profile with the new group name as High Level Qualifier or HLQ. It has the new group as owner and a UACC of none. This command is also available on the Action menu.



### Define Alias

Optional. Defines an alias for the group pointing to the user catalog. You must know the user catalog data set name to use this option. This command is also available on the Action menu. This action attempts to retrieve the user catalog data set name by searching the XFACILIT class, or the class configured as the Site Module general resource class during the server setup, as described in the *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide*. It looks for profiles with names starting with "CKG.UCAT." using the SHOW MYACCESS command. If one or more such profiles are found, this option can be activated. If more than one data set name is found, you are prompted to select one of them when activating the option.

**Note:** Note: If your access is NONE, the profiles with names starting with "CKG.UCAT." are ignored.

3. Click **OK** to create the subgroup, or click **Cancel** to cancel the change.
4. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. If you have performed an action already, the nodes that you selected previously are displayed. Complete these steps if you are using multi-system mode:
  - a. Specify the nodes to which the action applies. You must select at least one node to continue. The local node entry is highlighted.
  - b. If a node is defined as a zSecure node and an RRSF node, select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the drop-down list an alternative user ID to run the command.
  - c. Click **OK** to verify the selected list of nodes. The action is performed for each selected node.

---

## Duplicating a group

Use the **Duplicate group** window to create a new group from an existing group.

### About this task

You can create a group by duplicating a group, or by adding a new subgroup to a group. The duplicate group has the same connects, permits, and attributes as the original group. Adding a subgroup to a group is described in "Adding a subgroup" on page 89.

**Note:** If you are operating in multi-system mode, you can duplicate groups across zSecure nodes only; you cannot duplicate groups across multiple RRSF nodes.

### Procedure

To duplicate a group, follow these steps:

1. Select a group and click **Action > Duplicate** in the main menu. You can also start with these actions:
  - Select a group and click **Duplicate** on the toolbar.
  - Right-click a group and select **Duplicate** from the pop-up menu.

Figure 50. Duplicate group dialog

The following information is displayed for your reference:

**Complex: Node**

The complex and node names to which this action applies are displayed in the header of the dialog only if you are operating in multi-system mode.

**Group** Displays the name of the group from which you are creating the new group.

**Supgroup**

Displays the supergroup of the group from which you are creating a group. This group becomes the supergroup of the new group.

**Universal**

Indicates whether the selected group is a universal group.

**Installation Data**

Displays the data for the group from which you are creating a new group.

2. Change these fields as needed:

## New group

**Group** Required. Change the name from the copied name to a new name.

### Installation Data

Required. The data shown is copied from the group you are using to create the new group. You can change the copied data to new data.

## Additional Actions

### Enforce creation of data set profile

Optional. Creates a generic data set profile with the new group name as High Level Qualifier or HLQ. It has the new group as owner and a UACC of none. This command is also available on the Action menu.

### Define Alias

Optional. Defines an alias for the group pointing to the user catalog. You must know the user catalog data set name to use this option. This command is also available on the Action menu.

**Note:** This action attempts to retrieve the user catalog data set name by searching the XFACILIT class, or the class configured as the Site Module general resource class during the server setup, as described in the *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide*. It looks for profiles with names starting with "CKG.UCAT." using the SHOW MYACCESS command. If one or more such profiles are found, this option can be activated. If more than one data set name is found, you are prompted to select one of them when activating the option.

### Do not duplicate OMVS Segment

Prevents the duplication of the OMVS Segment of the existing group.

## Segment

If the segment is present in the original group profile, the value is copied to the new group and displayed in this field. If no segment value exists for the duplicated group or if the segment is not in your scope, this field is disabled. If this field is disabled, you cannot create this segment for the new group in this dialog. For more information about the authorities needed to manage segments, see "Authorities and settings required to manage segments" on page 127.

### OMVS z/OS UNIX group (grpId)

The z/OS UNIX group identifier. To have the system assign an unused value, use "auto." If you want more than one group to share the group ID, add "s" at the end of the grpId value.

3. Click **OK** to create the duplicate group, or click **Cancel** to cancel the changes.
4. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. If you have performed an action already, the zSecure nodes that you selected previously are displayed.

Complete the following steps if you are using multi-system mode.

**Note:** You cannot duplicate a group across multiple RRSF nodes.

- a. Specify the nodes to which the action applies. You must select at least one node to continue. The local node entry is highlighted.
- b. Click **OK** to verify the selected list of nodes. The action is performed for each selected node.

---

## Deleting a group

Use the **Delete group** dialog to delete a group or to prevent users from using the group (incomplete deletion).

### About this task

You can delete a group only if the group does not own resources. If the group owns resources, the group remains present. However, because all permits and connects have been removed, no user can use the group. A dialog is displayed to inform you about the incomplete deletion.

### Procedure

Follow these steps to delete a group:

1. Select the group and click **Action > Delete** in the main menu. You can also use these actions:
  - Select the group and press the **Delete** key.
  - Right-click a group to display the pop-up menu and select **Delete**.
  - Select the group and click **Delete** from the toolbar.

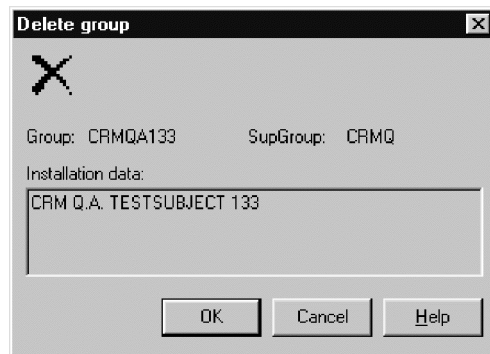


Figure 51. Delete group dialog

The dialog lists the **Group**, **SupGroup**, and Installation Data of the group to be deleted. If you are operating in multi-system mode, the associated complex and node names are listed at the top of the dialog.

2. Click **OK** to delete the group, or click **Cancel** to quit the dialog without making changes.
3. If you are using multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. If you have performed an action already, the nodes that you selected previously are displayed.

Complete these steps if you are using multi-system mode:

- a. Specify the nodes to which the action applies. You must select at least one node to continue. The local node entry is highlighted.

- b. If a node is defined as a zSecure node and an RRSF node, select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the drop-down list an alternative user ID to run the command.
- c. Click **OK** to verify the selected list of nodes. The action is performed for each selected node.



---

## Chapter 6. Connect management

Perform connect management tasks in the Visual Client to establish and maintain the connection associations between users and groups.

RACF users are connected to one or more groups. Different kinds of connects result in different authorizations for the users. Users get at least some of the authorizations of their groups. Their authorizations depend on the attributes of the connect, but they can use the resources that their groups have access to. Connection relationships between users and groups are described in the following topics.

“Connects table”

Review connects and access levels for a user or group in the Connects table.

“Connects in multi-system mode” on page 99

Follow these guidelines to create and change connects for users and groups in multi-system mode.

“Viewing and changing Connect properties” on page 99

Use the **Properties** dialogs for users and groups to view or change the properties of a connect.

“Creating a connect” on page 103

To view or change the properties of a connect, use the **Properties** dialogs for users and groups.

“Deleting a connect” on page 105

Use the **Delete connect** dialog to delete the connects of a user and a group.

“Copy, merge, and move functions for connects” on page 106

Use the **Drag and Drop** and **Copy and Paste** functions to copy, merge, and move connects.

---

### Connects table

Review connects and access levels for a user or group in the Connects table.

The **Connects** table displays the connects of a user or group. Use these methods to open the connects table:

- Select a user or group and select **Navigate > Connects** from the main menu.
- Right-click a user or group and select **Connects** from the pop-up menu.
- Select a user or group and click **Connect** on the toolbar.

Group	gSpec	gOper	gAud	Auth	InstData	Owner	SupGroup	SubGroups	Universal	Users	Created	Revoke Date	Resume Date
C2RSERVG				Use		SYS1	SYS1	0	No	16	05-Feb-10	01-Jan-00	01-Jan-00
CRMB				Use	CRM WERKNEM...	CR	CR	6606	No	393	04-Feb-10	01-Jan-00	01-Jan-00
CRMBEPRD				Use	EPRISE DEVEL...	CRMB	CRMB	0	No	9	05-Feb-10	01-Jan-00	01-Jan-00
CRMBOMVS				Use		CRMB	CRMB	0	No	12	05-Feb-10	01-Jan-00	01-Jan-00
CRMBZDEV				Use	ZTEAM DEVELO...	CRMB	CRMB	0	No	65	13-Feb-10	01-Jan-00	01-Jan-00
OMVSGRP				Use		SYSAPPL	SYSAPPL	0	No	16	05-Feb-10	01-Jan-00	01-Jan-00
SYSAUTH				Use	AUTHORIZATIO...	SYS1	SYS1	171	No	11	04-Feb-10	01-Jan-00	01-Jan-00
SYSPROG				Use	SYSTEM PROG...	SYSAUTH	SYSAUTH	4	No	50	04-Feb-10	01-Jan-00	01-Jan-00

Figure 52. Connects table

The **Connects** table has the following columns.

For groups, the other columns are the same as the group table in “Group table” on page 85.

**Note:** For universal groups, the Connected Users table shows only the users with authority higher than **USE** or with the **SPECIAL**, **OPERATIONS**, or **AUDITOR** attributes at the group level.

For users, the other columns are the same as the user table in “User table” on page 55, except the revoked column. The revoked column indicates the users whose connection to the group is revoked.

#### Complex

The name of the zSecure node where the result was found. This column is displayed only if you are operating in multi-system mode.

**Auth** Connect authority. The value can be any of these options:

**Use** The user can access the resources that the group has access to.

**Create** The user has the same authorizations as with **Use**. The user is also authorized to create data sets and data set profiles that have a High-Level-Qualifier (HLQ) as the name of the group.

#### Connect

The user has the same authorizations as with **Create** and is also authorized to connect existing users to the group.

**Join** The user has the same authorizations as with **Connect** and is also authorized to create new subgroups.

**gSpec** Group special attribute. When a user is connected with the group special attribute, the user can do everything with users, groups, and resources that are in the scope of the group, except changing auditing attributes.

**gOper** Group operations attribute. When a user is connected to a group with the group operations attribute, the user can do everything with resources that are in the scope of the group.

**gAud** Group auditor attribute. When a user is connected to a group with the group auditor attribute, the user can change auditing attributes of the users, groups, and resources that are in the scope of the group.



---

## Connects in multi-system mode

Follow these guidelines to create and change connects for users and groups in multi-system mode.

You can connect users and groups only on the same node. You cannot connect users and groups across separate nodes. However, if the same-name groups and users exist in another node, you can propagate the connects to that node.

**Note:** Use caution if you intend to propagate connects across nodes. You can create unintended consequences if the names and groups are not identical.

### Example of unintended consequences:

If you have two users with different names but identical user IDs on separate nodes, you can unintentionally propagate a user's connect properties to a different user. The Visual client does not ensure that user IDs refer to the same user or group names.

---

## Viewing and changing Connect properties

Use the **Properties** dialogs for users and groups to view or change the properties of a connect.

### Procedure

1. To see the properties of the connected users of a group, perform one of these steps:
  - Select the users and select **Navigate > Show Connects** from the main menu.
  - Right-click the users and select **Show Connects** from the pop-up menu.
  - Click **Show Connects** on the toolbar.

If you want to see the connects between a group and its users, the columns of the resulting table are described in Chapter 4, “User management,” on page 55.

If you want to see the connects between the groups of a user, the columns of the resulting table are described in Chapter 5, “Group management,” on page 85.

2. To see or change the properties of a connect, perform one of these steps:
  - Select the connected user or group and select **Navigate > Properties** from the main menu.
  - Right-click a connected user or group and select **Properties** from the pop-up menu.
  - Click **Properties** on the toolbar.

The resulting dialog depends on whether you select to view properties for a user or group.

3. If you select to view properties for a group, the following dialog is displayed:

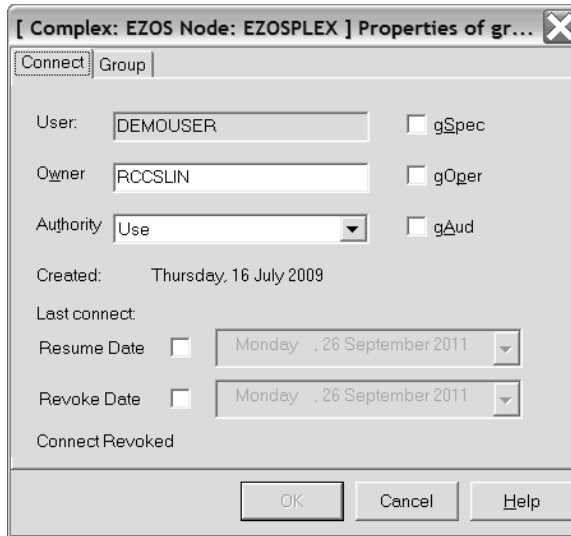


Figure 53. Connect properties dialog for a group

The complex and node names are displayed in the header of the dialog only if you are operating in multi-system mode.

The **Properties** dialog for a group has two tabs: **Connect** and **Group**. Your authorization to create connects on the mainframe determines which of these fields are editable.

The **Connect** tab for group properties displays these fields:

**User** The connected user of the selected group.

**Owner**  
The user or group that owns the group.

**Authority**  
Connect authority. From the connect authority dropdown list, you can select either **Use**, **Connect**, **Create** or **Join**.

**Use** The user can access the resources that the group has access to.

**Create** The user has the same authorizations as with **Use**. The user is also authorized to create data sets and data set profiles that have a High-Level-Qualifier (HLQ) as the name of the group.

**Connect**  
The user has the same authorizations as with **Create** and is also authorized to connect existing users to the group.

**Join** The user has the same authorizations as with **Connect** and is also authorized to create new subgroups.

**gSpec** Group special attribute. When a user is connected to a group with the group special attribute, the user can do everything with users, groups, and resources that are in the scope of the group, except changing auditing attributes.

**gOper** Group operations attribute. When a user is connected to a group with the group operations attribute, the user can do everything with resources that are in the scope of the group.

**gAud** Group auditor attribute. When a user is connected to a group with the group auditor attribute, the user can change auditing attributes of the users, groups, and resources that are in the scope of the group.

**Created**

Date that the connect was created.

**Last connect**

Most recent time that the user was connected to the group.

**Resume Date**

Specifies the date that the connection to the group is resumed for the user ID in the **User** field. If the RESUME attribute is required, the check box is selected and the calendar (date selector) is enabled. Use the calendar to specify the date.

**Revoke Date**

Specifies the date that the connection to the group is revoked for the user ID in the **User** field. If the REVOKE attribute is required, the check box is selected and the calendar (date selector) is enabled. Use the calendar to specify the date. To change the status from active to revoked, specify a date that is *equal to or prior to the current date*. If you specify today's date or a prior date, the Visual Client issues the REVOKE command immediately instead of scheduling it for a future date.

**Connect Revoked**

Indicates the revocation status of the user in the **User** field. This field is Read-only. **Revoked** indicates the status is currently revoked. No value (blank) indicates the status is active or suspended. To change the revocation status, you must update the revoke and resume dates.

In the Group tab, you see the Group Properties fields. For detailed description, see "Viewing group properties" on page 87.

4. Click **OK** to apply your changes.
5. If you select to view properties for a user, the following dialog is displayed:

Figure 54. Connect properties dialog for a user

The complex and node names are displayed in the header of the dialog only if you are operating in multi-system mode.

The **Properties** dialog for a user has four tabs: **Connect**, **Attributes**, **More Attributes**, and **Status**. Your authorization to create connects on the mainframe determines which of the fields on these tabs are editable.

The **Connect** tab for user properties displays these fields.

**Group** The connected group of the selected user.

**Owner**

The user or group that owns the user.

**Authority**

Connect authority. From the connect authority dropdown list, you can select either **Use**, **Connect**, **Create** or **Join**.

**Use** The user can access the resources that the group has access to.

**Create** The user has the same authorizations as with **Use**. The user is also authorized to create data sets and data set profiles that have a High-Level-Qualifier (HLQ) as the name of the group.

**Connect**

The user has the same authorizations as with **Create** and is also authorized to connect existing users to the group.

**Join** The user has the same authorizations as with **Connect** and is also authorized to create new subgroups.

**gSpec** Group special attribute. When a user is connected to a group with the group special attribute, the user can do everything with users, groups, and resources that are in the scope of the group, except changing auditing attributes.

**gOper** Group operations attribute. When a user is connected to a group with the group operations attribute, the user can do everything with resources that are in the scope of the group.

**gAud** Group auditor attribute. When a user is connected to a group with the group auditor attribute, the user can change auditing attributes of the users, groups, and resources that are in the scope of the group.

**Created**

Date that the connect was created.

**Last connect**

Most recent time that the user was connected to the group.

**Resume Date**

Specifies the date that the connection to the user ID is resumed for the group ID in the **Group** field. If the RESUME attribute is required, the check box is selected and the calendar (date selector) is enabled. Use the calendar to specify the date.

**Revoke Date**

Specifies the date that the connection to the user ID is revoked for the group ID in the **Group** field. If the REVOKE attribute is required, the check box is selected and the calendar (date selector) is enabled. Use the calendar to specify the date. To change the status from active to revoked, specify a date that is *equal to or prior to the current date*. If you specify today's date or a prior date, the Visual Client issues the REVOKE command immediately instead of scheduling it for a future date.

**Connect Revoked**

Indicates the revocation status of the user. This field is Read-only.

**Revoked** indicates the status is currently revoked. No value (blank) indicates the status is active or suspended. To change the revocation status, you must update the revoke and resume dates.

The Attributes, More Attributes, and Status tabs are described in "Viewing user properties" on page 63.

6. Click **OK** to apply your changes.

---

## Creating a connect

To view or change the properties of a connect, use the **Properties** dialogs for users and groups.

### About this task

A connect is a relation between a user and a group. The kind of the relation between a user and a group depends on its attributes.

### Procedure

1. To create a connect, select either users or groups and perform one of these steps:
  - Select **Action > Connect** from the main menu.
  - Right-click a user or group and select **Connect** from the pop-up menu.
  - Click **Connect** on the toolbar.

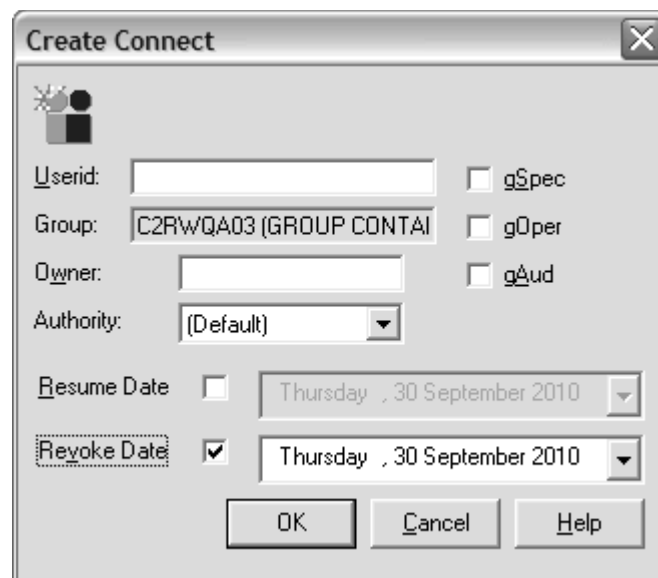


Figure 55. Create connect dialog

The complex and node names are displayed in the header of the dialog only if you are operating in multi-system mode.

2. Enter the user ID or group. You can select from these options:

#### Authority

Connect authority. The connect authority is either Use, Connect, Create, or Join.

**Use** The user can access the resources that the group has access to.

**Create** The user has the same authorizations as with **Use**. The user is also authorized to create data sets and data set profiles that have a High-Level-Qualifier (HLQ) as the name of the group.

#### Connect

The user has the same authorizations as with **Create** and is also authorized to connect existing users to the group.

**Join** The user has the same authorizations as with **Connect** and is also authorized to create new subgroups.

**gSpec** Group special attribute. When a user is connected to a group with the group special attribute, the user can do everything with users, groups, and resources that are in the scope of the group, except changing auditing attributes.

**gOper** Group operations attribute. When a user is connected to a group with the group operations attribute, the user can do everything with resources that are in the scope of the group.

**gAud** Group auditor attribute. When a user is connected to a group with the group auditor attribute, the user can change auditing attributes of the users, groups, and resources that are in the scope of the group.

#### **Resume Date**

Specifies the date that the connection to the group is resumed for the user ID in the **Userid** field. If the RESUME attribute is required, the check box is selected and the calendar (date selector) is enabled. Use the calendar to specify the date.

#### **Revoke Date**

Specifies the date that the connection to the group is revoked for the user ID in the **Userid** field. If the REVOKE attribute is required, the check box is selected and the calendar (date selector) is enabled. Use the calendar to specify the date.

3. Click **OK** to connect.
4. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes.  
If you have performed an action already, the nodes that you selected previously are displayed. If needed, you can change the nodes to which the create-connect action applies. You must select at least one node to continue. Note that local node entry is highlighted.

**Note:** You can create a connect for users and groups only on the same node. You cannot create a connect for users and groups across separate nodes. However, if the same-name groups and users exist in another node, selecting multiple systems will propagate the new connect to the specified nodes. Use caution if you intend to propagate new connects across nodes. See “Connects in multi-system mode” on page 99.

If a node is defined as a zSecure node and an RRSF node, you can select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the dropdown list an alternative user ID to run the command.

- a. Click **OK**. The selected list of nodes is verified, then the create-connect action is performed for each selected node.
5. Click **Cancel** to return to the previous dialog without selecting any nodes.

## **Attributes gSpec, gOper and gAud**

The **GrpSpecial**, **GrpOperations**, and **GrpAuditor** scope attributes might not be available.

If the attributes **GrpSpecial**, **GrpOperations**, and **GrpAuditor** display in gray, you cannot specify the attributes. The new connect cannot have them unless the connect exists with these attributes.

## Drag-and-drop and copy-paste

You can use the drag-and-drop or Copy-Paste functions to create a connect.

Another way to create connects is by drag-and-drop. A pop-up menu is displayed after dropping users from one list on a group in another list, or vice versa. Select **Connect** to create a connect.

**Note:** All new connects get the same attributes.

You can also use the Copy-Paste function available on the main menu bar. This function copies all the attributes. For more information, see “Copy and paste function” on page 31.

---

## Deleting a connect

Use the **Delete connect** dialog to delete the connects of a user and a group.

### Procedure

To delete connects, follow these steps:

1. Select the connects in a **Connects** table and perform one of these steps:
  - Select **Action > Delete** from the main menu.
  - Right-click the connects and select **Delete** from the pop-up menu.
  - Click **Delete** on the toolbar.
  - Press the **Delete** key.
  - Drag the connects and drop them on the Recycle Bin.

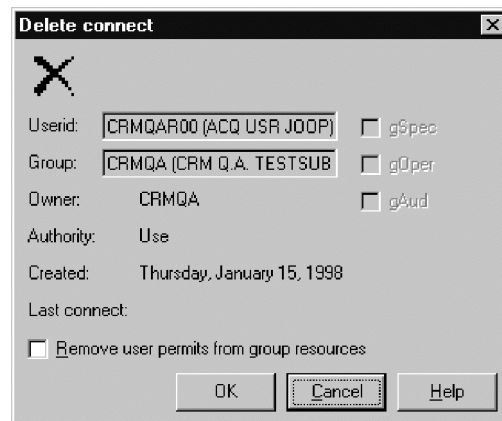


Figure 56. Delete connect dialog

2. Specify that the user must be removed from all access lists of group resources in the **Remove user permits from group resources** option.
3. Click **OK** to delete or remove the connect.
4. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. If you have performed an action already, the nodes that you selected previously are displayed.
  - a. Select the nodes to which the delete-connect action applies. You must select at least one node to continue. Note that the local node entry is highlighted.

**Note:** You can delete a connect for users and groups only on the same node. You cannot delete a connect for users and groups across separate nodes. However, if the same-name groups and users exist in another node, selecting multiple systems will propagate the delete-connect action to the specified nodes. Use caution if you intend to propagate the delete connects action across nodes. See “Connects in multi-system mode” on page 99.

If a node is defined as a zSecure node and an RRSF node, you can select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the dropdown list an alternative user ID to run the command.

- b. Click **OK**. The selected list of nodes is verified, then the delete-connect action is performed for each selected node.
- c. Click **Cancel** to return to the previous dialog without selecting any nodes.

## Copy, merge, and move functions for connects

Use the **Drag and Drop** and **Copy and Paste** functions to copy, merge, and move connects.

You can copy, merge, and move connects by using **Drag and Drop** or **Copy and Paste**. If you use **Drag and Drop**, you can drag connects from one table and drop them on a similar one. After the drop, a pop-up menu is displayed, listing these options:

**Copy** The dragged connects are copied to the target table. If a connect exists and has an authority higher than the dragged connect, the user can choose between copying and merging the connects. If copy is selected, the dragged connects replace the target connects. If merge is selected instead, every new connect has the attributes of both connects and have the highest connect authority.

**Note:** When copying a connect, if the revoke or resume dates are earlier than or equal to the current date, RACF prevents you from copying or entering the dates. Table 5 shows how revoke and resume values are managed for copy-connect actions.

*Table 5. Before-and-after revoke-and-resume values for copy-connect operation*

Original Values			Copy Output Values		
Revoke Flag	Revoke Date	Resume Date	Revoke Flag	New Revoke Date	New Resume Date
	None	None		None	None
	GT today	None		*Copy revoke date	None
	GT today	GT revoke date		*Copy revoke date	Copy resume date
	LT today	LE today & GT revoke date		(1)None	None
Yes	LE today	None	**Yes	(2)None	None
	LT today	Today		None	None
Yes	LE today	GT today	**Yes	(3)None	Copy resume date



Table 5. Before-and-after revoke-and-resume values for copy-connect operation (continued)

Original Values			Copy Output Values		
Yes	None	None	**Yes	None	None
	None	LT today		None	None
	None	Today		None	None
Yes	None	GT today	**Yes	None	Copy resume date
Legend: LT = less than, LE = less than or equal to, GT = greater than, None = not specified					
<p>*For a temporary connect, you must remove the revoke date in order for the copy operation to create a permanent connect.</p> <p>**If the revoke flag is set in the copied values, the initial status of the connect is set to revoked.</p> <p><b>Copy outcome examples:</b></p> <p>(1)The resume date takes precedence because it is less than or equal to today's date. The new connection is not set to revoke and resume.</p> <p>(2)The connection is already revoked (date in the past), therefore the new connection is set to be revoked with no revoke or resume dates.</p> <p>(3)The connection has a current status of revoked (date in the past), but a resume date later than today is specified. The new connection is revoked and set to resume with the specified date.</p>					

**Merge** The outcomes of merge-connect operations are based on various combinations of resume and revoke dates. The goal is to prevent a connection from becoming unintentionally active in these circumstances:

- Revoking too late.
- Resuming too soon.
- Resuming when a permanent revocation is wanted.

If the outcome from a merger is unexpected or unwanted, open the user or group properties dialog and change the dates. The following example shows how an outcome is derived.

**Merge-connect example:**

A merger of connects is executed between these connects:

- The current date is November 1.
- The source connect is active with a revoke date of November 15 and no resume date.
- The target connect is active with a revoke date of November 5 and a resume date of December 1st.

The outcome of this operation is a connect that is currently active until revoked on November 5, with no resumption date.

**Move** The move action is a combination of a copy or merge followed by a delete of the successfully copied or merged connects. A dialog in which you can specify the move options is displayed. The **Remove user permits from group resources** option specifies whether the user must be removed from the access list of resource profiles of the group on the delete action.

Select **Copy and Paste** from the main menu to perform a copy and paste operation. For more information about **Copy and Paste**, see “Copy and paste function” on page 31.

---

## Chapter 7. Resource management

The administrator performs zSecure resource management tasks to maintain the access rules that different users and groups have to resources.

“Resource profiles” on page 110

Rules for access to various kinds of resources are kept in resource classes as profiles. This section describes these resource profiles.

“Adding a resource profile” on page 113

Use the **Add resource profile** dialog to create a resource profile from scratch.

“Duplicating a resource profile” on page 114

Use the **Duplicate resource profile** dialog to create a resource profile from an existing profile.

“Editing resource profile properties” on page 115

Use the **Properties of resource profile** dialog to change the properties of a resource profile.

“Deleting a resource profile” on page 117

Use the **Delete resource profile** dialog to delete a resource profile.

“Modifying an Access List (ACL)” on page 118

Use the **Access list** window to view, add, and change entries in the access list of a resource profile.

“Adding a user or group to an access list” on page 120

Use the **Add to access list** dialog to add a user or group to the access list of a resource profile.

“Editing an access list entry” on page 121

Use the **Edit Access List** dialog to edit the entry of a user or group in the access list of a resource profile.

“Deleting an access list entry” on page 122

Use the **Delete** option to remove the entry of a user or group in the access list of a resource profile.

“Profile members” on page 122

The administrator uses these guidelines to plan and implement the use of grouping classes.

“Viewing and changing a member list” on page 123

Use the **Members** window to view and change the member list of a general resource profile.

“Adding a member” on page 124

Use the **Add member** dialog to add a new member to a member list of a resource profile.

“Editing a member” on page 125

Use the **Edit member** dialog to change a member of a list.

“Deleting a member” on page 125

Use the **Delete** function to delete a member from a list.

“Refreshing a class” on page 126

Use the **Refresh** function to refresh a class after changing resource profiles in the RACF database.

---

## Resource profiles

Rules for access to various kinds of resources are kept in resource classes as profiles. This section describes these resource profiles.

Access checks are done against specific resource classes, depending on the type of resource the access check is for. For example, DATASET for reading a data set, or TERMINAL to see if you can log on using a particular machine. Profiles within each class describe sets of access settings. The profile name can be generic, like a mask specification. RACF determines which access settings apply by looking for the profile name that best matches the resource name within the particular class.

In RACF, a distinction is made between DATASET profiles and all other resource profiles. The DATASET profiles reside in the DATASET class which controls access to data sets. All other resource profiles are called *General Resource Profiles*. zSecure Visual lets you work with both types of profiles.

To protect a resource with a profile, the profile has to reside in the appropriate class. The name of the profile needs to match the name of the resource. For example, to protect dataset CKR.CKR231.SCKRLOAD, you can make a profile named CKR.CKR231.SCKRLOAD in the DATASET class.

To avoid creating a resource profile for every resource, RACF enables you to use generic characters in the profile name. You can use character \* to represent one qualifier, or the rest of the current qualifier. The \*\* sequence matches zero or more qualifiers. The following examples show the matches based on the use of the \* character:

```
CKR.CKR*.SCKRLOAD matches CKR.CKR231.SCKRLOAD.  
CKR.CKR231.SCKRLOAD.* does not match CKR.CKR231.SCKRLOAD,  
    because it has no fourth qualifier.  
CKR.** matches CKR.CKR231.SCKRLOAD.  
CKR.**.SCKRLOAD matches CKR.CKR231.SCKRLOAD.
```

If there are different resource profiles that match a certain resource, RACF uses the most specific profile. It is the one with the most characters left of the first generic character.

## Resource table

You can review resource profile contents in the Resources table.

Typically a profile contains an access list that specifies the access to the resources, which users and groups have, covered by the profile. Some general resource classes grant access by a different procedure.

Use the **Find** dialog to locate a list of all resources. You can use \* in the class to get profiles of different resource classes in one table. If you leave the class field empty, you can get all resources but without users or groups.

Profile	Class	ProfType	UACC	Warning	Erase	AuditS	AuditF	ACL count	Owner	Created	InstData	UserIDCount
SYSP.*.*	Dataset	Generic	None			Update	Read	4	SYSAUTH	04-Mar-11		0
TSTUSR1.*.*	Dataset	Generic	None				Read	2	TSTUSR1	26-May-15		0
TVT6003.*.*	Dataset	Generic	None				Read	2	TVT6003	01-Sep-15		0
TWS.*.*	Dataset	Generic	None				Read	5	SYSAUTH	26-Mar-14		0
USER.*.*	Dataset	Generic	Read			Read	Read	7	SYSAUTH	28-Feb-10		0
USER.*.XM	Dataset	Generic	Read			Read	Read	2	SYSAUTH	07-Mar-10		0
USER.ANDREW.*	Dataset	Generic	None					0	USER	16-Jul-12	TESTING	0
USER.ANN.*	Dataset	Generic	Read			Read	Update	0	USER	16-Jul-12	TESTING	0
USER.JENIFER.*	Dataset	Generic	Read			Control	Control	1	USER	16-Jul-12	TESTING ...	0
USER.NMPIPL87....	Dataset	Generic	None			Read	Read	2	SYSAUTH	28-Feb-10		0
USER.TROY.*	Dataset	Generic	Exe...	Warning		Control	Update	0	USER	17-Jul-12	TESTING ...	0
USER.ZARA.*	Dataset	Generic	Read			Read	Read	0	USER	17-Jul-12	TESTING ...	0
ZTK130.*.*	Dataset	Generic	None				Read	2	ZTKQA	17-Nov-10		0

Figure 57. Resources table

The resulting fields in the **Resource** table are:

### Complex

The name of the zSecure node where the result was found. This column is displayed only if you are operating in multi-system mode.

**Class** Class in which the profile resides.

### Profile

Name of the profile.

### ProfType

Profile type. For general resources, it can be discrete or generic. For data sets, it can be generic, nonvsam, vsam, tapesdn, or model.

**UACC** Access granted by the profile to any user whose access cannot be determined from the access list.

### Warning

A profile in warning mode always allows access to the resource (!), but if the access is more than the access that the Access List or UACC grants, an audit log record is written.

**Erase** Overwrite the dataset on deletion. This flag is only taken into account if the central Erase flag has been set using a SETROPTS ERASE command.

### AuditS

Audit level for successes.

### AuditF

Audit level for failures.

### ACLCount

Number of user IDs and groups on the access list of the profile.

### Owner

User ID or group that can change the profile.

**Notify** User ID that receives a message when an audited violation occurs.

### InstData

The contents and means of this field are defined by your organization.

### Appldata

This field is only defined for generic resource profiles, which are all resource profiles except profiles in the DATASET class. Its contents and means depend on the class.

**Volser** For discrete DATASET profiles, it contains the volumes the profile protects.

**Created**

Date the profile was created.

**UserIDcount**

For the IDIDMAP profiles, it indicates the number of user ID associated with this profile.

The extra selection fields for resources in the **Find** dialog are:

**Installation data**

Select only resources that have the specified pattern in their installation data.

**Owner**

Select only resources whose owner matches the specified filter.

**Segment**

Select the resources that have the segment you specified. If this option is disabled, you cannot view segments or there are none. The option *any* gives you the complete resource list, whether the profiles have segments or not.

## Viewing mapping information

Use the **Mappings** selection to view mapping information for IDIDMAP profiles.

**Procedure**

For the IDIDMAP profiles, you can view their associated mapping information by following these steps:

1. Select the IDIDMAP profile from the main menu.
2. Select **Navigate > Mappings**. Alternatively, you can right-click the IDIDMAP profile to display the pop-up menu and select **Mappings**.

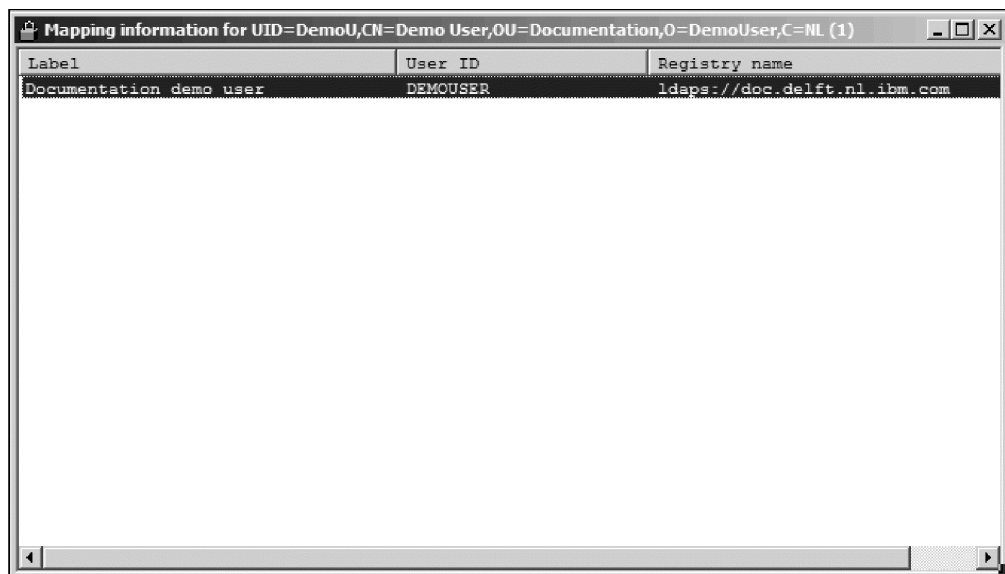


Figure 58. Mapping information of an IDIDMAP profile

On the displayed window, you can view these fields:

**Complex**

The name of the complex where the result was found. This field is displayed only if you are operating in multi-system mode.

**Label** The label associated with the identity mapping.

**User ID**

The user ID associated with the identity mapping.

**Registry name**

The registry name of the identity mapping.

**Note:** You cannot duplicate, add, edit, or delete an IDIDMAP profile. For more information, see “Viewing mappings” on page 82.

---

## Adding a resource profile

Use the **Add resource profile** dialog to create a resource profile from scratch.

**About this task**

You can create a new resource profile through the resource table.

**Note:** You can only create generic DATASET profiles, including fully qualified generics.

**Procedure**

To create a resource profile from scratch, complete these steps:

1. Open a resource table.
2. Select the profile from the resource table and select **Action > Add Resource**.

Figure 59. Add resource profile dialog

3. Enter the profile data. The fields and options are described here:

**Complex: Node**

The complex and node names to which this action applies are displayed in the header of the dialog only if you are operating in multi-system mode.

**Class** Class in which the profile resides. zSecure Visual uses as default class the class of the profile you have selected. You can change the class.

**Profile**  
Name of the profile.

**UACC** Access granted by the profile to any user whose access cannot be determined from the access list.

**Warning**  
A profile in warning mode always allows access to the resource (!), but if the access is more than the access that the Access List or UACC grants, an audit log record is written.

**Erase** This flag is only valid when class is DATASET. When the flag is set, the dataset is overwritten on deletion, but only if the central Erase flag has been set using a SETROPTS ERASE command.

**AuditS**  
Audit level for successes.

**AuditF**  
Audit level for failures.

**Owner**  
User ID or group that can change the profile.

**Notify** User ID that can receive a message when an audited violation has occurred.

**InstData**  
The contents and means of this field are defined by your organization.

**Appldata**  
This field is only defined for generic resource profiles, which are all resource profiles except profiles in the DATASET class. Its contents and means depend on the class.

**Refresh**  
Refreshes the class, so the new profile becomes effective immediately, even for users that have cached profiles of the class. If you do not specify **Refresh**, the profile becomes active only for users that do not have cached profiles.

4. If you need the profile changes to take effect immediately for all users, click **Refresh** to refresh the class. If you do not refresh the class, the profile becomes active only for those users that do not have it cached.

5. Click **OK** to create the profile, or click **Cancel** to cancel the new profile.

If you are operating in single-node mode, **OK** is disabled until you change one or more values.

If you are operating in multi-system mode, **OK** is enabled so you can create the selected resource profile in a different node.

---

## Duplicating a resource profile

Use the **Duplicate resource profile** dialog to create a resource profile from an existing profile.



## About this task

You can create a profile by duplicating an existing profile. Duplicating a profile copies the access list and member list of the original profile to a new profile. You can customize the new profile and change the data as required.

**Note:** You cannot copy a resource profile from a DATASET class to a general resource class or vice versa.

## Procedure

To duplicate a resource profile, perform these steps:

1. Select the resource profile in a resources table and select **Action > Duplicate** from the main menu.

The screenshot shows a Windows-style dialog box titled "Duplicate PROGRAM profile C2R\*". It is divided into two main sections. The top section contains fields for "Class:" (PROGRAM), "Profile type:" (Discrete), "Profile:" (C2R\*), and "Volumes:". The bottom section contains fields for "Class:" (PROGRAM), "Profile:" (C2R.\*), "Owner:" (CRMAINT), "Notify:", a "Warning" checkbox, "UACC:" (Read), "AuditE:" (Read), "AuditS:" (None), "Application data:", and "Installation data:". At the bottom of the dialog are four buttons: "Refresh", "OK", "Cancel", and "Help".

Figure 60. Duplicate resource profile dialog

2. If you are duplicating the profile to create a new profile for a single node, change the data in the fields. For descriptions of the fields, see "Adding a resource profile" on page 113.
3. If you need the new profile to take effect immediately for all users, click **Refresh** to refresh the class. If you do not refresh the class, the profile becomes active only for those users that do not have it cached.
4. Click **OK** to create the profile. If you are duplicating the profile for another node, select the nodes to which the profile applies, then click **OK**.

---

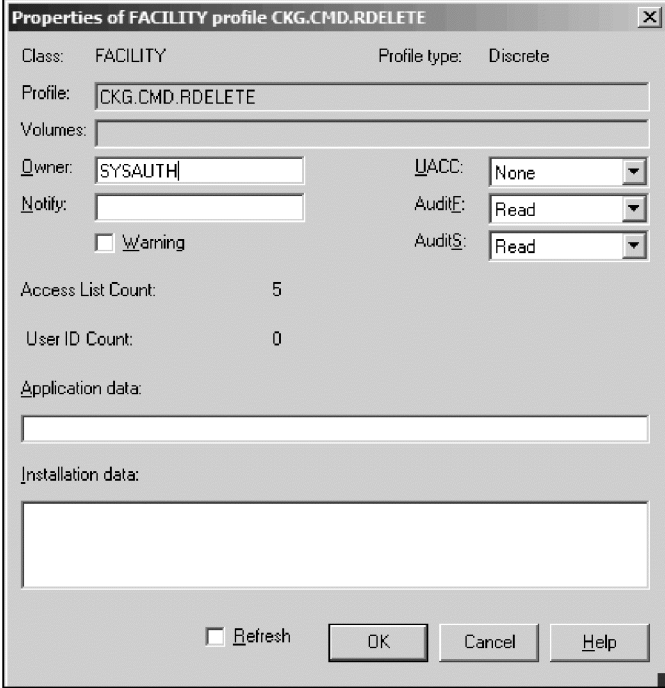
## Editing resource profile properties

Use the **Properties of resource profile** dialog to change the properties of a resource profile.

## Procedure

To change the properties of a resource profile, complete these steps:

1. Select the profile and select **Navigate > Properties** from the main menu.



The dialog box is titled "Properties of FACILITY profile CKG.CMD.RDELETE". It contains the following fields and controls:

- Class:** FACILITY
- Profile type:** Discrete
- Profile:** CKG.CMD.RDELETE
- Volumes:** (empty text box)
- Owner:** SYSAUTH
- Notify:** (empty text box)
- ☐ **Warning**
- UACC:** None
- Audit:** Read
- AuditS:** Read
- Access List Count:** 5
- User ID Count:** 0
- Application data:** (empty text box)
- Installation data:** (empty text box)
- ☐ **Refresh**
- OK** button
- Cancel** button
- Help** button

Figure 61. Properties of resource profile dialog

2. Edit the properties as needed.

**Note:** You *cannot* edit these properties in this dialog:

- Class
- Profile
- Volumes
- Access List Count
- User ID Count

If you are operating in multi-system mode, the complex and node to which you selection applies is displayed in the header of the dialog.

The following properties are displayed:

**Class** Class in which the profile resides.

**Profile type**

Type of the RACF profile, for example, Generic, VSAM, Non VSAM, Model, Type DSN, and so on.

**Profile**

Name of the profile.

**Volumes**

For discrete DATASET profiles, this field contains the volumes that the profile protects.

**Owner**

User ID or group that can change the profile.

**Notify** User ID that receives a message when an audited violation occurs.

**Warning**

A profile in warning mode always allows access to the resource (!), but if the access is more than the access that the Access List or UACC grants, an audit log record is written.

**Erase** Overwrite the dataset on deletion. This flag is only taken into account if the central Erase flag has been set using a SETROPTS ERASE command.

**ACLCount**

Number of user IDs and groups on the access list of the profile. You cannot directly change the number here. However, if you select the profile and select **Navigate > Access List** from the main menu, you can extend or shorten the access list.

**Application data**

This field is only defined for generic resource profiles, which are all resource profiles except profiles in the DATASET class. Its contents and means depend on the class.

**Installation data**

The contents and means of this field are defined by your organization.

**Profile type**

Type of profile.

**UACC** Access granted by the profile to any user whose access cannot be determined from the access list.

**AuditF**

Audit level for failures.

**AuditS**

Audit level for successes.

**User ID count**

For the IDIDMAP profiles, it indicates the number of user IDs associated with this profile.

3. Click **Refresh** to refresh the class if you need the profile changes to take effect immediately.
4. Click **OK** to apply your changes.
5. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. If you have performed an action already, the nodes that you selected previously are displayed. Complete these steps if you are using multi-system mode:
  - a. Specify the nodes to which the action applies. You must select at least one node to continue. Note that the local node entry is highlighted.
  - b. If a node is defined as a zSecure node and an RRSF node, select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the dropdown list an alternative user ID to run the command.
  - c. Click **OK** to verify the selected list of nodes. The action is performed for each selected node.

---

## Deleting a resource profile

Use the **Delete resource profile** dialog to delete a resource profile.

## Procedure

To delete a resource profile, follow these steps:

1. Select the resource profile in a resource table and select **Action > Delete** from the main menu.

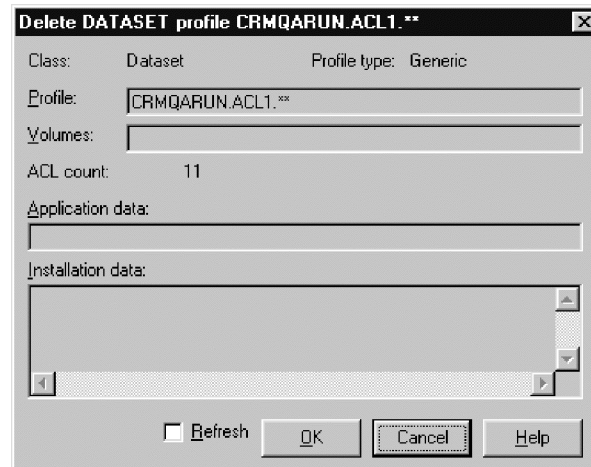


Figure 62. Delete resource profile dialog

2. Select **Refresh** to apply the deletion of the profile immediately.
3. Click **OK** to delete the profile.
4. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. If you have performed an action already, the nodes that you selected previously are displayed. Complete these steps if you are using multi-system mode:
  - a. Specify the nodes to which the action applies. You must select at least one node to continue. Note that the local node entry is highlighted.
  - b. If a node is defined as a zSecure node and an RRSF node, select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the dropdown list an alternative user ID to run the command.
  - c. Click **OK** to verify the selected list of nodes. The action is performed for each selected node.

---

## Modifying an Access List (ACL)

Use the **Access list** window to view, add, and change entries in the access list of a resource profile.

### About this task

The name access list is often abbreviated as ACL. A resource profile typically has an access list, which is a list of user IDs and group IDs, their granted access and, optionally, a condition.

## Procedure

1. To view the access list of a resource profile, select the profile and click **Navigate > Access List** in the main menu.

ID	Access	When	Name	InstData
CRMGRACF	Execute			PADS LI...
CRMQA	Read			CRM Q.A...
CRMQA001	None		QA SUBJECT 001	
CRMQA002	Execute	Terminal	QA SUBJECT DUAL AUTH	
CRMQA003	Read		QA SUBJECT 003	
CRMQA004	Update		QA SUBJECT 004	
CRMQA005	Control		QA SUBJECT 005	QA SUBJ...
CRMQA006	Alter		QA SUBJECT 006	
CRMQA007	Update		QA SUBJECT 007	
CRMQARUN	None		USER RUNT TESTS	ONDER ...
CRMQTST	None		C2RWIN SCRIPT RUNNER	QC TEST...

Figure 63. Access list

When a group is placed on the access list, all its users get access, see “Viewing an Effective Access List” on page 53. The user and group columns are described in Chapter 2, “IBM Security zSecure Visual customization and primary tasks,” on page 17 and Chapter 4, “User management,” on page 55. The following columns are also in the access list table:

**Node** The name of the node that is associated with the ID.

**ID** User ID or group.

#### Access

Granted access. It is always one of these options:

**None** All means of access is denied for the specified user or group.

#### Execute

The specified user or group can execute the resource. It is only effective for data sets and programs.

**Read** The specified user or group can execute and read the resource.

#### Update

The specified user or group can execute, read, and update or write the resource.

#### Control

The specified user or group can execute, read, update or write, and create or remove the resource.

**Alter** The specified user or group can do anything with the resource and change the resource profile, just as the owner.

**When** A blank field means there is no condition, so the access is granted without restriction. Entries in this field have this form:

*APPCPort appcport Console console JESInput class Program  
program SYSID id Terminal terminal*

2. Complete these steps to add, delete, or change ID entries in the list and process your changes:
  - a. Select a list entry (ID).
  - b. Click **Add**, **Edit**, or **Delete**, to change the list entry. A dialog for the selected task is displayed:
    - “Adding a user or group to an access list” on page 120
    - “Editing an access list entry” on page 121

- “Deleting an access list entry” on page 122
- c. After you make a change, the **OK** and **Cancel** buttons become available in the main Access List window.
3. Click **Refresh** to refresh the class. The new access list becomes effective immediately, even for users that have cached profiles of the class.
- Note:** Your changes do not become effective for users whose affected profiles are cached until you refresh the class.
4. Click **OK** to apply your changes to the access list to the mainframe.
  5. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. Complete these steps if you are using multi-system mode:
    - a. Specify the nodes to which the changes applies. You must select at least one node to continue. Note that the local node entry is highlighted.
    - b. If a node is defined as a zSecure node and an RRSF node, select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the dropdown list an alternative user ID to run the command.
    - c. Click **OK** to verify the selected list of nodes. The IDs of the current node, if selected, are updated with your changes. Your changes to the current node are then replicated to the other selected nodes.

**Note:**

- You must understand the differences in the ID data across your RACF databases; other nodes might not have the same initial access list as the current node.
- IDs that are different than the current node remain in the other nodes.
- The client does not verify that the user or group IDs exist in the other nodes. If an ID does not exist in the target database, it is rejected by RACF as an error and ignored.

---

## Adding a user or group to an access list

Use the **Add to access list** dialog to add a user or group to the access list of a resource profile.

### Procedure

To add a user or group to the access list, follow these steps:

1. Display the access list and click **Add** in the table window.

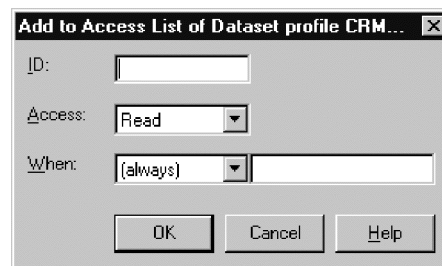


Figure 64. Add to access list dialog

2. Specify this information:

**ID** The user ID or group ID.

**Access**

The access level that is set for the ID.

**When** The condition for which access is granted.

3. Select **Refresh** to make the new ID immediately active for all users. If you do not refresh, the ID only becomes active for those users that do not have it cached.
4. To add the same ID with different conditions to the access list, click **OK**. If the same ID is added with the same condition but a different access, the new access overrides the previous access.

Your changes are updated in the Access List main form. The changes are not processed until you click **OK** in the main Access List dialog to process all changes.

---

## Editing an access list entry

Use the **Edit Access List** dialog to edit the entry of a user or group in the access list of a resource profile.

### Procedure

To edit the entry of a user or group in the access list, follow these steps:

1. Select the entry and click **Edit** in the table window.

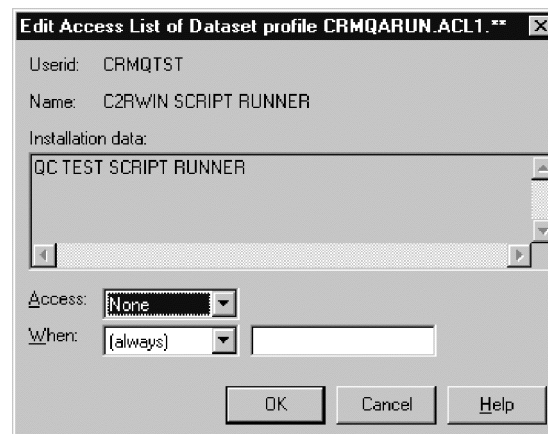


Figure 65. Edit access list dialog

2. Edit these fields as needed:

**ID** A user ID or group ID.

**Access**

The access level that is set for the ID.

**When** The condition for which access is granted.

3. Click **OK** to apply the changes to the access list.

Your changes are updated in the Access List main form. The changes are not processed until you click **OK** in the main Access List dialog to process all changes.

---

## Deleting an access list entry

Use the **Delete** option to remove the entry of a user or group in the access list of a resource profile.

### Procedure

Follow these steps to delete an entry:

1. Select the user or group entry in the access list.
2. Click **Delete** in the table window or select **Action > Delete**.
3. Click **OK** to delete the selection.

Your changes are updated in the Access List main form. The changes are not processed until you click **OK** in the main Access List dialog to process all changes.

---

## Profile members

The administrator uses these guidelines to plan and implement the use of grouping classes.

All resource profiles except DATASET profiles can have a member list. In practice, only some classes have profiles with members. The typical way to use profile members is to access on groups of resources instead of individual resources. You need a member and grouping class.

Member and grouping classes are linked together in the Class Descriptor Table. The member class can contain profiles that accept access the normal way. The grouping class is grant access for groups of resources. A group is represented by a profile in the class. This grouping profile can have a list of members, each of which contains a resource name. Any rights granted on the grouping profile accepts access on all the resources named in the members.

**Attention:** The design of the group structure is important. For ease of use, a group name must give a good indication of either the contents or the use of the resource group. Avoid this usage:

- Use of both the member and grouping class simultaneously for the same resource.
- Recurrence of the same resource in more than one group, if you plan to grant access on those resource groups to a user or group.

The various issues involved when merging access rights for multiple resources are complex and can result in unexpected and undesired effects. Also, no clear report of the result is available.

## Example of grouping class

The administrator uses this sample scenario to plan and implement grouping classes.

The main reason to use grouping is to avoid excessive administration overhead. An example of where this grouping can be useful is the administration of CICS transactions. TCICSTRN, the member class, can be granted access on individual transactions. For every transaction, a profile is needed. However, it quickly becomes cumbersome. To avoid creating large piles of individual transaction profiles, it is possible to organize them in the GCICSTRN grouping class. A useful



group division might be by CICS system and job description:

GCICSTRN class	
Profile	Members
CICSPROD.OPER	CICSPROD.CEMT CICSPROD.CSOT CICSPROD.CSFR ...
CICSPROD.DEV	CICSPROD.CEMT CICSPROD.CEDA CICSPROD.CAUT ...
CICSTEST.DEV	CICSTEST.CEMT CICSTEST.CAUT ...
...	...

Figure 66. Grouping class example

If you carefully plan and implement your groupings, granting rights on the resource groups is simpler and less error-prone than granting rights on individual transactions.

## Exceptions

The administrator must be aware of these exceptional grouping classes, which need special consideration.

In some classes profile members are used in different ways than previously described. Explaining the mechanisms involved is beyond the scope of this manual. Some of the better known exceptions are:

- The Global Access Table (GLOBAL class, DATASET profile)
- NODES class
- PROGRAM class
- RACFVARS class

---

## Viewing and changing a member list

Use the **Members** window to view and change the member list of a general resource profile.

### Procedure

To display the member list of a resource profile and change the list, perform these steps:

1. Select the profile and select **Navigate > Members** from the main menu.

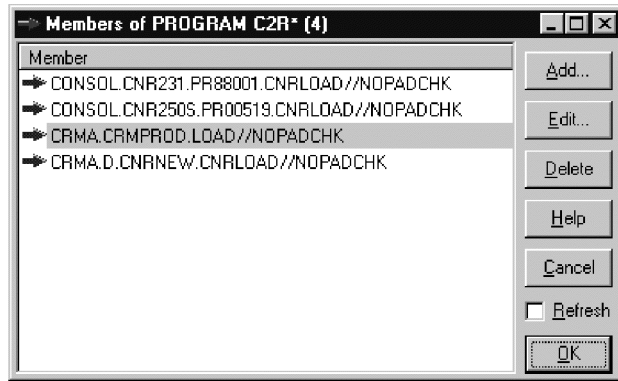


Figure 67. Member list

2. Click **Add**, **Edit**, or **Delete** to change the member list.
3. Click **Refresh** to make the changes effective immediately. For users that have cached profiles of the same class, the changes might not become effective until you refresh the class.
4. Click **OK** to apply the changes to the mainframe.
5. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. If you have performed an action already, the nodes that you selected previously are displayed. Complete these steps if you are using multi-system mode:
  - a. Specify the nodes to which the action applies. You must select at least one node to continue. Note that the local node entry is highlighted.
  - b. If a node is defined as a zSecure node and an RRSF node, select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the dropdown list an alternative user ID to run the command.
  - c. Click **OK** to verify the selected list of nodes. The members of the current node, if selected, are updated with your changes. The members lists of the other selected nodes are replaced by the current members list.
  - d. Click **Cancel** to return to the previous dialog without selecting any nodes.

---

## Adding a member

Use the **Add member** dialog to add a new member to a member list of a resource profile.

### Procedure

To add a member, perform these steps:

1. Click **Add** in the member table window.

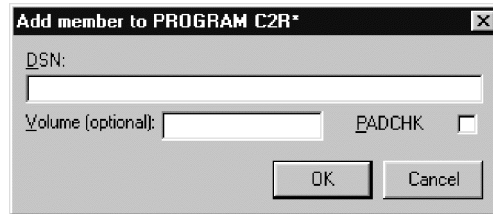


Figure 68. Add member dialog

2. Enter the new member.

**Note:** When adding a member to the PROGRAM class, use the **DSN**, **Volume**, and **PADCHK** fields to construct the new member string.

3. Click **OK** to add the new member to the list. The changes do not become effective for users whose affected profiles are cached until you refresh the class in the main member list.

---

## Editing a member

Use the **Edit member** dialog to change a member of a list.

### Procedure

To edit a member, perform these steps:

1. Select the member and click **Edit** in the member table window.



Figure 69. Edit member dialog

2. Change the member and click **OK** to place it in the list.

**Note:** When editing a member in the PROGRAM class, use the **DSN**, **Volume**, and **PADCHK** fields to construct the member string.

3. Click **OK** to apply the changes to the member list. The changes do not become effective for users whose affected profiles are cached until you refresh the class in the main member list.

---

## Deleting a member

Use the **Delete** function to delete a member from a list.

### Procedure

To delete a member, perform these steps:

1. Select the member and click **Delete** in the member table window, or select **Action > Delete** from the main menu.

2. Click **Refresh** to make the changes effective immediately. For users that have cached profiles, the changes do not become effective until you refresh the class.
3. Click **OK** to send the deletion to the mainframe.
4. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. If you have performed an action already, the nodes that you selected previously are displayed. Complete these steps if you are using multi-system mode:
  - a. Specify the nodes to which the action applies. You must select at least one node to continue. Note that the local node entry is highlighted.
  - b. If a node is defined as a zSecure node and an RRSF node, select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the dropdown list an alternative user ID to run the command.
  - c. Click **OK** to verify the selected list of nodes. The members of the current node, if selected, are updated with your changes. The members lists of the other selected nodes are replaced by the current members list.
  - d. Click **Cancel** to return to the previous dialog without selecting any nodes.

---

## Refreshing a class

Use the **Refresh** function to refresh a class after changing resource profiles in the RACF database.

### About this task

After changing resource profiles in the RACF database, a refresh is required to propagate the changes to cached profiles for all users.

### Procedure

To refresh a class, perform these steps:

1. Select **Action > Refresh** from the main menu.

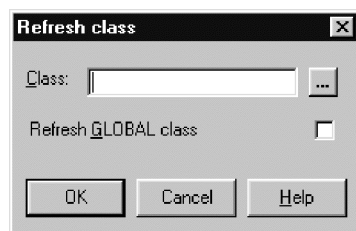


Figure 70. Refresh class dialog

2. Enter the class name in the **Class** field.
3. Select the **Refresh GLOBAL** class to refresh the global access table for this class instead of the class itself. If you do not know the class, click the button next to the class field to get the **Select** class dialog. See “Finding classes with the Select class dialog” on page 42 for more information.

---

## Chapter 8. Segment management

You can use the Visual Client to perform zSecure segment management tasks for users, groups, and resources.

An application segment is part of a profile that contains information about a mainframe application other than RACF, like TSO or z/OS UNIX. Users, groups, and resources all have their own segments. Use the following tasks to manage segments:

“Authorities and settings required to manage segments”

To manage segments, you must view and edit authorities and settings.

“Viewing and editing segment types”

To view and edit segments, open the **Segmenttypes** table.

“Viewing the segment list” on page 130

Use the **Segment list** option to view the segments of a class with a specific segment type.

“Using the Segment Detail window” on page 130

Use the **Segments** option to view information about the segments of a single profile. The procedure is described here.

“Adding a segment” on page 132

Use the **Add segment** option to add a segment directly to a profile.

“Exceptions” on page 133

Use the list in this topic to determine which segments cannot be edited with the segment detail window.

“Segment fields” on page 134

Use segment field descriptions in this topic in to get information on the segment type.

---

### Authorities and settings required to manage segments

To manage segments, you must view and edit authorities and settings.

To view segments, you must set the **Interface level option** at administration level Full. To select this level, go to **View > Options** on the main menu.

For more information on specific authorization requirements for segment management, see the section on “Segment editing for users” in *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide*.

---

### Viewing and editing segment types

To view and edit segments, open the **Segmenttypes** table.

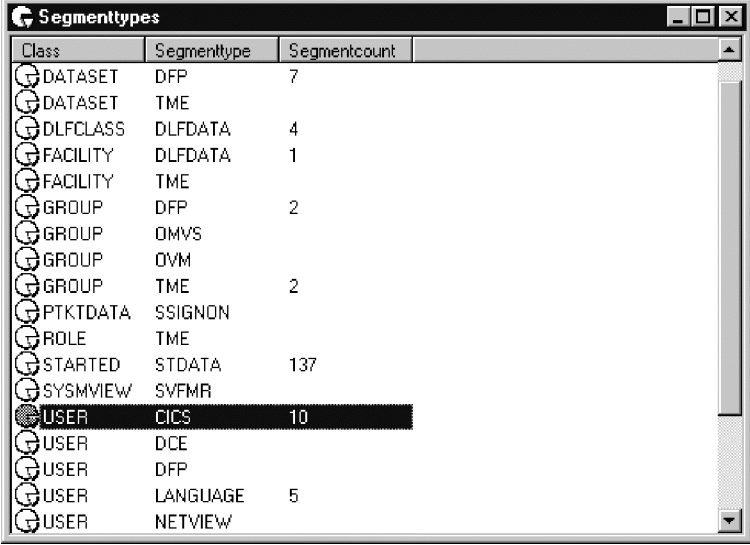
#### About this task

IBM Security zSecure Visual enables you to view and edit segments. The **Segmenttypes** table displays an overview of all segments that zSecure Visual can show.

## Procedure

Follow these steps to view and edit segments:

1. Select **Navigate > Segmenttypes** in the main menu.



Class	Segmenttype	Segmentcount
DATASET	DFP	7
DATASET	TME	
DLFCLASS	DLFDATA	4
FACILITY	DLFDATA	1
FACILITY	TME	
GROUP	DFP	2
GROUP	OMVS	
GROUP	OVM	
GROUP	TME	2
PTKTDATA	SSIGNON	
ROLE	TME	
STARTED	STDATA	137
SYSMVIEW	SVFMR	
USER	CICS	10
USER	DCE	
USER	DFP	
USER	LANGUAGE	5
USER	NETVIEW	

Figure 71. Segment types

The **Segmenttypes** table has these columns:

### Complex

The name of the zSecure node to which segment applies. This column is displayed only if you are operating in multi-system mode.

**Class** The class to which the segment belongs.

### Segmenttype

The segment type.

### Segmentcount

The number of segments.

**Note:** This number is not initially specified. Each time you view information about a segment, the relevant number of that segment is updated in the **Segmenttypes** list.

2. To view information about segments, right-click a row and select **Segment List**. See “Viewing the segment list” on page 130.

## Application segments

The administrator uses this table to determine which segments are associated with the user, group, and resource profiles.

The following table lists the segments of resource profiles in their related classes.

Class	Segment
APPCLU	SESSION
CDT	CDTINFO
CFIELD	CFDEF
CSFKEYS	ICSF

Class	Segment
DATASET	DFP
DATASET	TME
DIGTCERT	CERTDATA
DIGTRING	CERTDATA
DLFCLASS	DLFDATA
EJBROLE	TME
FACILITY	DLFDATA
FACILITY	EIM
FACILITY	PROXY
FACILITY	TME
GCSFKEYS	ICSF
GXCSFKEY	ICSF
LDAPBIND	EIM
LDAPBIND	ICTX
LDAPBIND	PROXY
MFADEF	MFPOLICY
PROGRAM	SIGVER
PTKTDATA	SSIGNON
REALM	KERB
ROLE	TME
STARTED	STDATA
SYSMVIEW	SVFMR
XCSFKEY	ICSF

The segments of group profiles are:

- CSDATA
- DFP
- OMVS
- OVM
- TME

The segments of user profiles are:

- CICS
- CSDATA
- DCE
- DFP
- EIM
- KERB
- LANGUAGE
- LNOTES
- NDS
- NETVIEW
- OMVS
- OPERPARM
- OVM
- PROXY
- TSO
- WORKATTR

---

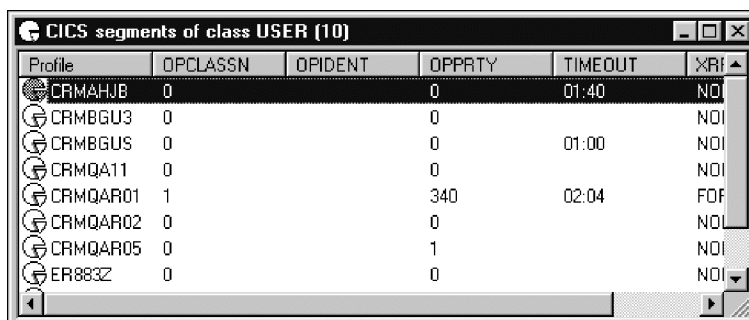
## Viewing the segment list

Use the **Segment list** option to view the segments of a class with a specific segment type.

### Procedure

To view the segment list, follow these steps:

1. Open the Segment Types window.
2. Select the class-segment type combination and select **Navigate >Segment list** from the main menu, or,
3. Right-click the class-segment type and select **Segment list**.



Profile	OPCLASSN	OPIDENT	OPPRTY	TIMEOUT	XRI
CRMAHJB	0		0	01:40	NO
CRMBGU3	0		0		NOI
CRMBGUS	0		0	01:00	NOI
CRMQA11	0		0		NOI
CRMQAR01	1		340	02:04	FOF
CRMQAR02	0		0		NOL
CRMQAR05	0		1		NOI
ER883Z	0		0		NOI

Figure 72. Segment list

The segment list always starts with the name of the profile. The other fields are segment specific. The names are abbreviations. You can find the complete names in the segment detail window. For more information about the segment fields, see “Segment fields” on page 134.

4. If you select a profile in the segment list, you have these possibilities:
  - View the properties of the profile by performing one of these steps:
    - Select **Navigate > Properties** on the main menu and double-click the profile; or,
    - Right-click the profile and select the option **Properties**.
  - View the segment detail window of the profile by performing one of these steps:
    - Select **Navigate > Segments** from the main menu; or,
    - Right-click the profile and select the option **Segments**.
  - Add a segment to a profile. For more information, see “Adding a segment” on page 132.

---

## Using the Segment Detail window

Use the **Segments** option to view information about the segments of a single profile. The procedure is described here.

### About this task

The segment detail window gives you all the information about the segments of a single profile. From this window, you can also edit the profile. To access the Segment Detail Window, you must be in the segment list or in either the user, group, resource, connected users, or connected groups table.



## Procedure

To open the Segment Detail window, follow these steps:

1. Select the specific profile you want to edit or look at.
2. Select **Navigate > Segments** from the main menu, or
3. Right-click the profile and select **Segments** from the pop-up menu.

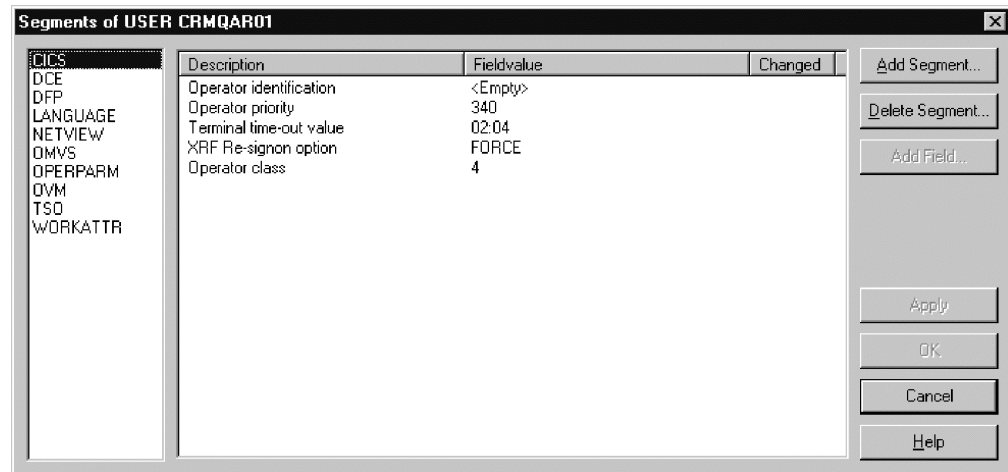


Figure 73. Segment Detail Window

When you open the segment detail window, on the left pane you see all segments of the profile. If you select a segment here, you get the detailed information about the right pane. The right pane has three columns:

### Description

A description of the segment.

### Fieldvalue

Value of the field. You can edit the value. All empty fields are shown with a blue-colored <Empty> in this column. When a repeating field count is zero, a single <Empty> field is shown here, although it does not exist yet. It enables the user to create the first repeating field by simply entering a value.

### Changed

This column tells you whether any changes you made are yet to be applied on the mainframe by clicking **Apply**.

The buttons on the right are the edit options.

4. To edit a field, follow these steps:
  - a. Select the row you want to change using one of these methods:
    - Click the row you want to change then click the row a second time. After a short pause the **Fieldvalue** field will open for you to start editing.
    - Select the row you want to edit with the tab and arrow keys and press the **Ins** key to open the editing dialog.
  - b. To cancel editing, use the **Esc** key or select another row.
  - c. Press **Enter** to save your changes.

The edit options are listed as follows:

**Add segment**

Clicking this button opens the pop-up menu **Add segment**. You can select the segment you want to add.

**Delete segment**

Select the segment you want to delete and click the button. You get a warning box with the question if you want to delete the selected segment. Click **Yes** to delete it or **Cancel** to undo the deletion.

**Add Field**

This option is only possible for repeating fields. To add a new, empty field, select the field you want to add. The **Add Field** button becomes enabled. Click the button to add the field.

**Refresh**

After changing a field, you check the box to refresh it to propagate the changes to cached profiles for all users. You must have the right authorization to refresh the profiles.

**Apply** To apply the changes to the mainframe, click **Apply**. All indications in the Changed column disappear while the changes take effect.

---

## Adding a segment

Use the **Add segment** option to add a segment directly to a profile.

**About this task**

You can add segments directly to a profile or from the segment detail window. See "Using the Segment Detail window" on page 130 in information on adding segments in the segment detail window.

**Procedure**

To add a segment directly to a profile, complete these steps:

1. In the table, right-click the profile you want to add a segment to.
2. Select **Action > Add segment** from the main menu, or select **Add segment** from the pop-up menu.

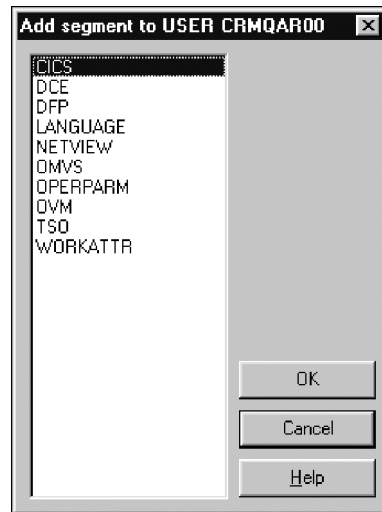


Figure 74. Add Segment dialog

3. Select the segment to add. Then, click **OK**.
4. If you are operating in multi-system mode, the **Select Nodes** dialog displays your preferred list of nodes. If you have performed an action already, the nodes that you selected previously are displayed. Complete these steps if you are using multi-system mode:
  - a. Specify the nodes to which the action applies. You must select at least one node to continue. Note that the local node entry is highlighted.
  - b. If a node is defined as a zSecure node and an RRSF node, select only one of these node types. If you select an RRSF node, you can use the **AT** or **ONLYAT** options to select from the dropdown list an alternative user ID to run the command.
  - c. Click **OK** to verify the selected list of nodes. The action is performed for each selected node.

**Note:**

- To propagate the add-segment action across nodes, the segments need to be very similar.
- The segment is added to the node *if possible*.
- The segment is added immediately to the nodes.

## Exceptions

Use the list in this topic to determine which segments cannot be edited with the segment detail window.

Most segments exist in the segment list and can be edited with the segment detail window. There are these exceptions:

- CSDATA segments are shown in SegmentTypes, SegmentList, and Segment Detail only if present.
- DIGTCERT-CERTDATA is displayed but cannot be edited.
- DIGTCERT-CERTDATA-CERT is not read from the mainframe, as it causes errors while doing so.
- DIGTCERT-CERTDATA-\*RSV\* is not read from the mainframe, they are reserved fields and must not be shown.

- DIGTCRIT cannot be edited, so it only appears in SegmentTypes and SegmentList, not in Segment Detail.
- DIGTNMAP cannot be edited, so it only appears in SegmentTypes and SegmentList, not in Segment Detail.
- DIGTRING cannot be edited, so it only appears in SegmentTypes and SegmentList, not in Segment Detail.
- FACILITY PROXY-BINDPW and BINDPWKY are read-only fields, so they only exist in SegmentList, not in Segment Detail.
- MFPOLICY is displayed but cannot be edited.
- REALM-KERB-CURKEY, CURKEYV, ENCTYPE, PREVKEY, PREVKEYV, and SALT are read-only fields, so they only exist in SegmentList, not in Segment Detail.
- PTKTDATA-SSIGNON contains an encryption key only, so it only appears in SegmentTypes, not in SegmentList or Segment Detail.
- USER-KERB-CURKEY, CURKEYV, DEFTKTLF, ENCTYPE, MINTKTLF, PREVKEY, PREVKEYV, and SALT are read-only fields, so they only exist in SegmentList, not in Segment Detail.
- USER PROXY-BINDPW and BINDPWKY are read-only fields, so they only exist in SegmentList, not in Segment Detail.
- USER-TSO-TCONS, TOPTION, TPERFORM, TRBA, TUPT are read-only fields, so they only exist in SegmentList, not in Segment Detail.

---

## Segment fields

Use segment field descriptions in this topic in to get information on the segment type.

You can find information about segments and segment fields in section “RACF database templates” of the book “*z/OS Security Server RACF Macros and Interfaces*” available at the IBM Knowledge Center for z/OS.

To view the segment fields for a segment type, click on the segment name. In the segment field table, each column is explained as follows:

### Fieldname

The names of the fields as you see them in the segment list.

### Repeats

If the fields of the segment display more than once, you find them all in the segment detail window. In the segment list, you find the number of repetitions.

### Description

The descriptions of the fields as you see them in the segment detail window.

### Command parameter

Lists the parameter that identifies the field in RACF commands that manipulate the field. This column is filled in only when this parameter is different from **Fieldname**.

## Segments of resource profiles

You can use Visual Client to view the details of each segment in a resource profile.

This section lists the segments of resource profiles:

- “APPCLU - SESSION”
- “CDT - CDTINFO”
- “CFIELD - CFDEF” on page 136
- “CSFKEYS, GCSFKEYS, XCSFKEY, GXCSFKEY - ICSF” on page 136
- “DATASET - DFP” on page 137
- “DATASET - TME” on page 137
- “DIGTCERT - CERTDATA” on page 137
- “DIGTRING - CERTDATA” on page 138
- “DLFCLASS - DLFDATA” on page 138
- “EJBROLE - TME” on page 138
- “FACILITY - DLFDATA” on page 138
- “FACILITY - EIM” on page 139
- “FACILITY - PROXY” on page 139
- “FACILITY - TME” on page 139
- “LDAPBIND - EIM” on page 140
- “LDAPBIND - ICTX” on page 140
- “LDAPBIND - PROXY” on page 140
- “MFADEF - MFPOLICY” on page 140
- “PROGRAM - SIGVER” on page 140
- “PTKTDATA - SSIGNON” on page 141
- “REALM - KERB” on page 141
- “ROLE - TME” on page 141
- “STARTED - STDATA” on page 142
- “SYSMVIEW - SVFMR” on page 142

## APPCLU - SESSION

Use this table to determine the fields in the APPCLU- SESSION segment type.

Fieldname	Repeats	Description	Command parameter
CONVSEC	No	Conversation security flags	
KEYDATE	No	Session key last change date	
KEYINTVL	No	Session key days to expiry #	INTERVAL
MAXFAIL	No	Failed tries before lockout #	
SENTCNT	No	Session entities in list #	
SENTFLCT	Yes	Failed attempts #	
SENTITY	Yes	Session entity name	
SESSKEY	No	Session key	
SLSFAIL	No	Invalid attempts #	
SLSFLAGS	No	Session flag byte	LOCK

## CDT - CDTINFO

Use the fields in the CDT-CDTINFO segment type to define classes in the dynamic CDT.

The CDTINFO segment is only valid for the CDT resource class. It is used to define classes in the dynamic CDT.

Fieldname	Repeats	Description	Command parameter
CDTCASE	No	Profile names case sensitive	
CDTDFTRC	No	Default not-found RC	
CDTFIRST	No	Syntax 1st character (raw)	
CDTGEN	No	GENERIC/GENCMD status	
CDTGENL	No	GENLIST status	
CDTGROUP	No	Related grouping class	
CDTKEYQL	No	Generic scan limit (quals)	
CDTMAC	No	MAC checking	
CDTMAXLN	No	Maximum length with ENTITY	
CDTMAXLX	No	Maximum length	
CDTMEMBR	No	Related member class	
CDTOPER	No	OPERATIONS honored	
CDTOTHER	No	Syntax remainder (raw)	
CDTPOSIT	No	POSIT (options set id)	
CDTPRFAL	No	Profile definition ed	
CDTRACL	No	RACLIST status	
CDTSIGL	No	Send ENF signal	
CDTSLREQ	No	SECLABELs required	
CDTUACC	No	Default UACC	

## CFIELD - CFDEF

Use the fields in the CFIELD - CFDEF segment type to define the characteristics of the field.

The CFDEF (Custom Field DEfinition) segment for CFIELD class profiles defines the characteristics of the field.

Fieldname	Repeats	Description	Command parameter
CFDTYPE	No	Custom field type	
CFFIRST	No	Custom field first char	
CFHELP	No	Custom field help text	
CFLIST	No	Custom field listing header	
CFMIXED	No	Custom field mixed chars	
CFMIVAL	No	Custom field min value	
CFMXLEN	No	Custom field max length	
CFMXVAL	No	Custom field max value	
CFOTHER	No	Custom field other chars	

## CSFKEYS, GCSFKEYS, XCSFKEY, GXCSFKEY - ICSF

Use this table to determine the fields in the ICSF segment type.

The ICSF segment defines Integrated Cryptographic Service Facility storage attributes for the keys that are controlled by general resources profiles in classes CSFKEYS, GCSFKEYS, XCSFKEY, and GXCSFKEY.

Fieldname	Repeats	Description	Command parameter
CSFSEXP	No	Symmetric key export option.	SYMEXPORTABLE
CSFCSPW	No	Symmetric key CPACF wrap option.	SYMCPACFWRAP

Fieldname	Repeats	Description	Command parameter
CSFSKLCT	No	Count of PKDS labels.	SYMEXPORTKEYS
CSFSKLBS	Yes	PKDS labels which might be used to export this symmetric key.	
CSFSCLCT	No	Count of certificate labels.	SYMEXPORTCERTS
CSFSCLBS	Yes	Certificate labels which might be used to export this symmetric key.	
CSFAUSE	No	Asymmetric key usage.	ASYMUSAGE

## DATASET - DFP

Use this table to determine the fields in the DFP segment type.

Fieldname	Repeats	Description	Command parameter
RESOWNER	No	DFP - resource owner	

## DATASET - TME

Use this table to determine the fields in the TME segment type.

Fieldname	Repeats	Description	Command parameter
ROLEN	No	# TME role access specs	
ROLES	Yes	TME role access specs	

## DIGTCERT - CERTDATA

Use this table to determine the fields in the DIGTCERT - CERTDATA segment type.

Because this segment cannot be edited, it appears only in Segment List and Segment Types.

Fieldname	Repeats	Description	Command parameter
CERT	No	Digital certificate	
CERTDFLT	Yes	Default cert for this keyring	
CERTEND	No	Certificate end date	
CERTLABL	Yes	Digital certificate labels	
CERTLSER	No	Certificate lse	
CERTNAME	Yes	Digital certificate names	
CERTPRVK	No	Private Key	
CERTPRVS	No	Private Key Size	
CERTPRVT	No	Private Key Type	
CERTSJDN	Yes	Distinguished name of Subject	
CERTSTRT	No	Certificate start date	
CERTUSAG	Yes	Certificate usage in this keyring	
RINGCT	No	Number of keyrings	
RINGNAME	Yes	Name of the keyring	
RINGSEQN	No	Ring sequence number	

## DIGTRING - CERTDATA

Use this table to determine the fields in the DIGTRING - CERTDATA segment type.

Because this segment cannot be edited, it appears only in Segment List and Segment Types.

Fieldname	Repeats	Description	Command parameter
CERT	No	Digital certificate	
CERTCT	No	# Digital certificates	
CERTDFLT	Yes	Default cert for this keyring	
CERTEND	No	Certificate end date	
CERTLABL	Yes	Digital certificate labels	
CERTNAME	Yes	Digital certificate names	
CERTPRVK	No	Private Key	
CERTPRVS	No	Private Key Size	
CERTPRVT	No	Private Key Type	
CERTSJDN	Yes	Distinguished name of Subject	
CERTSTRT	No	Certificate start date	
CERTUSAG	Yes	Cert. usage in this keyring	
RINGCT	No	Number of keyrings	
RINGNAME	Yes	Name of the keyring	
RINGSEQN	No	Ring sequence number	

## DLFCLASS - DLFDATA

Use this table to determine the fields in the DLFCLASS - DLFDATA segment type.

Fieldname	Repeats	Description	Command parameter
JOBNAMES	Yes	Job names	
OBNMCNT	No	Job names #	
RETAIN	No	Retain flag byte	

## EJBROLE - TME

Use the table in this topic to determine the fields in the EJBROLE - TME segment type.

Fieldname	Repeats	Description	Command parameter
CHILDN	No	# TME child roles	
CHILDREN	Yes	TME child roles	
GROUPN	No	#TME associated groups	
GROUPS	Yes	TME associated groups	
PARENT	No	TME parent role	
RESN	No	#TME resource access specs	
RESOURCE	Yes	TME resource access specs	
ROLEN	No	# TME role access specs	
ROLEN	Yes	TME role access specs	

## FACILITY - DLFDATA

Use the table in this topic to determine the fields in the FACILITY - DLFDATA segment type.



Fieldname	Repeats	Description	Command parameter
JOBNAMES	Yes	Job names	
JOBNMCNT	No	Job names #	
RETAIN	No	Retain flag byte	

## FACILITY - EIM

Use the table in this topic to determine the fields in the FACILITY - EIM segment type.

Definition of the Enterprise Identity Mapping (EIM) domain.

Fieldname	Repeats	Description	Command parameter
DOMAINDN	No	EIM Domain Distinguished Name	
FIELDNAME	REPEATS	Description	Command parameter
KERBREG	No	Kerberos registry for EIM	KERBREGISTRY
LOCALREG	No	Local RACF registry for EIM	LOCALREGISTRY
OPTIONS	No	EIM options	
X509REG	No	X509 registry for EIM	X509REGISTRY

## FACILITY - PROXY

Use the table in this topic to determine the fields in the FACILITY - PROXY segment type.

BINDPW and BINDPWKY are read-only fields, so they only exist in SegmentList, not in Segment Detail.

Fieldname	Repeats	Description	Command parameter
LDAPHOST	No	LDAP Server URL	
BINDDN	No	Bind Distinguished Name	
BINDPW	No	Bind Password	
BINDPWKY	No	Bind Password Mask   Encrypt Key	

## FACILITY - TME

Use the table in this topic to determine the fields in the FACILITY - TME segment type.

Fieldname	Repeats	Description	Command parameter
CHILDN	No	# TME child roles	
CHILDREN	Yes	TME child roles	
GROUPN	No	# TME associated groups	
GROUPS	Yes	TME associated groups	
PARENT	No	TME parent role	
2RESN	No	# TME resource access specs	
RESOURCE	Yes	TME resource access specs	
ROLEN	No	# TME role access specs	
ROLES	Yes	TME role access specs	

## LDAPBIND - EIM

Use this table to determine the fields in the LDAPBIND - EIM segment type.

Definition of the Enterprise Identity Mapping (EIM) domain.

Fieldname	Repeats	Description	Command parameter
DOMAINDN	No	EIM Domain Distinguished Name	
OPTIONS	No	EIM options	

## LDAPBIND - ICTX

Use this table to determine the fields in the LDAPBIND - ICTX segment type.

The ICTX segment in the LDAPBIND class contains information regarding remote resource management.

Fieldname	Repeats	Description	Command parameter
USEMAP	No	USEMAP	
DOMAP	No	DOMAP	
MAPREQ	No	MAPREQUIRED	
MAPTIMEO	No	MAPPINGTIMEOUT	

## LDAPBIND - PROXY

Use this table to determine the fields in the LDAPBIND - PROXY segment type.

The PROXY segment is used to store LDAP proxy server information.

Fieldname	Repeats	Description	Command parameter
BINDDN	No	Bind information for LDAP server being contacted	
LDAPHOST	No	Host of LDAP server to contact	

## MFADEF - MFPOLICY

Use this table to determine the fields in the MFADEF - MFPOLICY segment type.

The MFPOLICY segment is used to store MFADEF information.

Fieldname	Repeats	Description	Command parameter
MFFCTRN	No	Number of MFA factors	
MFREUSE	No	MFA token reusable	
MFTIMEO	No	MFA token timeout in seconds	
MFFCTRS	No	MFA factor name	

## PROGRAM - SIGVER

Use this table to determine the fields in the PROGRAM - SIGVER segment type.

The SIGVER (SIGnature VERification) segment for PROGRAM class profiles contains fields that are verify digital signatures of program modules.

Fieldname	Repeats	Description	Command parameter
SIGREQD	No	Module must have a signature.	SIGREQUIRED
FAILLOAD	No	Loader failure conditions	
SIGAUDIT	No	RACF audit condition	

## PTKTDATA - SSIGNON

Use this table to determine the fields in the PTKTDATA - SSIGNON segment type.

PTKTDATA - SSIGNON contains an encryption key only, so it only appears in SegmentTypes, not in SegmentList or Segment Detail.

Fieldname	Repeats	Description	Command parameter
SSKEY	No	Single Signon key	

## REALM - KERB

Use this table to determine the fields in the REALM - KERB segment type.

REALM - KERB/CURKEY, CURKEYV, ENCTYPE, PREVKEY, PREVKEYV, and SALT are read-only fields, so they only exist in SegmentList, not in Segment Detail.

Fieldname	Repeats	Description	Command parameter
CURKEY	No	Current Kerberos key	
CURKEYV	No	Current Kerb key version	
DEFTKTLF	No	Default ticket life	
ENCTYPE	No	Kerberos encryption type	
ENCRYPT	No	ed encryption types	
KERBNAME	No	Kerberos name	
MAXTKTLF	No	Maximum ticket life	MAXTKTLFE
MINTKTLF	No	Minimum ticket life	MINTKTLFE
PREVKEY	No	Previous Kerberos key	
PREVKEYV	No	Previous Kerb key version	
SALT	No	Seed for Kerberos Randomizer	

## ROLE - TME

Use this table to determine the fields in the ROLE - TME segment type.

Fieldname	Repeats	Description	Command parameter
CHILDN	No	# TME child roles	
CHILDREN	Yes	TME child roles	
GROUPN	No	# TME associated groups	
GROUPS	Yes	TME associated groups	
PARENT	No	TME parent role	
2RESN	No	# TME resource access specs	
RESOURCE	Yes	TME resource access specs	
ROLEN	No	# TME role access specs	
ROLES	Yes	TME role access specs	

## STARTED - STDATA

Use this table to determine the fields in the STARTED - STDATA segment type.

Fieldname	Repeats	Description	Command parameter
FLAGPRIV	No	Privileged - any, nolog	PRIVILEGED
FLAGTRAC	No	Trace - issue IRR812I	TRACE
FLAGTRUS	No	Trusted - any, log all	TRUSTED
STGROUP	No	Started task RACF group	GROUP
STUSER	No	Started task RACF user ID	USER

## SYSMVIEW - SVFMR

Use this table to determine the fields in the SYSMVIEW - SVFMR segment type.

Fieldname	Repeats	Description	Command parameter
PARMN	No	SVFMR parameter list	PARMNAME
SCRIPTN	No	Default logon scripts	SCRIPTNAME

## Segments of group profiles

Use the field descriptions in this topic to determine the details of each segment in a group profile.

This section describes the fields for the group segment types.

- "GROUP - CSDATA"
- "GROUP - DFP"
- "GROUP - OMVS"
- "GROUP - OVM" on page 143
- "GROUP - TME" on page 143

### GROUP - CSDATA

The CSDATA segment of a GROUP profile is where custom fields of that profile are added.

You can add fields using the RACF CFIELD class to define the new fields to GROUP profiles and the labels you want to use for them. The fields of this segment are installation defined.

### GROUP - DFP

Use the table in this topic to determine the fields in the GROUP - DFP segment type.

Fieldname	Repeats	Description	Command parameter
DATAAPPL	No	DFP - Data Application	
DATACLAS	No	DFP - Data Class	
MGMTCLAS	No	MDFP - Management Class	
STORCLAS	No	DFP - Storage Class	

### GROUP - OMVS

Use the table in this topic to determine the fields in the GROUP - OMVS segment type.

The OMVS segment provides a z/OS UNIX Security context, which you need to log on to z/OS UNIX. OMVS stands for OpenMVS, a prior name for z/OS UNIX System Services.

Fieldname	Repeats	Description	Command parameter
GID	No	z/OS UNIX group (grpid)	GID

**GID** The OMVS group identifier. To have the system assign an unused value, use "auto." If you want more than one group to share the GID, add "s" at the end of the GID value.

## GROUP - OVM

Use the table in this topic to determine the fields in the GROUP - OVM segment type.

The OVM segment is used to store UNIX System Services information.

Fieldname	Repeats	Description	Command parameter
GID	No	UNIX group (gid)	

## GROUP - TME

Use the table in this topic to determine the fields in the GROUP - TME segment type.

Fieldname	Repeats	Description	Command parameter
ROLEN	No	# TME role access specs	
ROLES	Yes	TME role access specs	

## Segments of user profiles

Use these field descriptions to determine the details of each segment in a user profile.

This section describes the fields for the user segment types.

- "USER - CICS" on page 144
- "USER - CSDATA" on page 144
- "USER - DCE" on page 144
- "USER - DFP" on page 144
- "USER - EIM" on page 144
- "USER - KERB" on page 145
- "USER - LANGUAGE" on page 145
- "USER - LNOTES" on page 145
- "USER - NDS" on page 145
- "USER - NETVIEW" on page 145
- "USER - OMVS" on page 146
- "USER - OPERPARM" on page 146
- "USER - OVM" on page 147
- "USER - PROXY" on page 147
- "USER - TSO" on page 147
- "USER - WORKATTR" on page 148

## USER - CICS

Use this table to determine the fields in the USER - CICS segment type.

The CICS segments show information about CICS, an online transaction processing system. CICS is used to handle large numbers of data transactions from large computer or terminal networks. This topic shows the fields of the segment.

Fieldname	Repeats	Description	Command parameter
OPCLASS	Yes	Operator class	
OPCLASSN	No	Operator class values #	
OPIDENT	No	Operator identification	
OPPRTY	No	Operator priority	
TIMEOUT	No	Terminal time-out value	
XRFSOFF	No	XRF Re-signon option	

## USER - CSDATA

Use this table to determine the fields in the USER - CSDATA segment type.

The CSDATA segment of a USER profile is where custom fields of that profile are added. You can add fields using the RACF CFIELD class to define the new fields to USER profiles and the labels you want to use for them. The fields of this segment are installation defined.

## USER - DCE

Use this table to determine the fields in the USER - DCE segment type.

Fieldname	Repeats	Description	Command parameter
DCEENCRY	No	DCE password encr. key no.	
DCEFLAGS	No	DCE Autologin	AUTOLOGIN
DCENAME	No	DCE username	
DPASSWDS	No	DCE password	
HOMECCELL	No	DCE homecell	
HOMEUUID	No	DCE homecell UUID	
UUID	No	DCE UUID	

## USER - DFP

Use this table to determine the fields in the USER - DFP segment type.

Fieldname	Repeats	Description	Command parameter
DATAAPPL	No	DFP - Data Application	
DATACLAS	No	DFP - Data Class	
MGMTCLAS	No	DFP - Management Class	
STORCLAS	No	DFP - Storage Class	

## USER - EIM

Use this table to determine the fields in the USER - EIM segment type.

Segment to store the name of an LDAPBIND class profile. This profile contains the information needed to connect to the EIM domain on the LDAP host it resides on.

Fieldname	Repeats	Description	Command parameter
LDAPPROF	No	LDAP Profile	

## USER - KERB

Use this table to determine the fields in the USER - KERB segment type.

USER - KERB/CURKEY, CURKEYV, DEFTKTLF, ENCTYPE, MINTKTLF, PREVKEY, PREVKEYV, and SALT are read-only fields, so they only display in SegmentList, not in Segment Detail.

Fieldname	Repeats	Description	Command parameter
CURKEY	No	Current <sup>®</sup> Kerberos key	
CURKEYV	No	Current Kerb key version	
DEFTKTLF	No	Default ticket life	DEFTKTLFE
ENCTYPE	No	Kerberos encryption type	
ENCRYPT	No	ed encryption types	
KERBNAME	No	Kerberos name	
MAXTKTLF	No	Maximum ticket life	MAXTKTLFE
MINTKTLF	No	Minimum ticket life	MINTKTLFE
PREVKEY	No	Previous Kerberos key	
PREVKEYV	No	Previous Kerb key version	
SALT	No	Seed for Kerberos Randomizer	

## USER - LANGUAGE

Use this table to determine the fields in the USER - LANGUAGE segment type.

Fieldname	Repeats	Description	Command parameter
USERNL1	No	Primary language of a user	PRIMARY
USERNL2	No	Secondary language of a user	SECONDARY

## USER - LNOTES

Use this table to determine the fields in the USER - LNOTES segment type.  
LNOTES stands for IBM Notes.

Fieldname	Repeats	Description	Command parameter
SNAME	No	IBM Notes short username	

## USER - NDS

Use this table to determine the fields in the USER - NDS segment type.

Fieldname	Repeats	Description	Command parameter
UNAME	No	NDS username	

## USER - NETVIEW

Use this table to determine the fields in the USER - NETVIEW segment type.

Fieldname	Repeats	Description	Command parameter
CONSNAME	No	Default console name	

Fieldname	Repeats	Description	Command parameter
CTL	No	Scope of control	
DOMAINS	Yes	Cross-domain authority	DOMAINS
DOMAINSN	No	# cross-domain authorities	
IC	No	Initial command list	
MSGRECVR	No	Receive undelivered messages	
NETVIEW	No	Admin auth Graphic Mon Fac	NGMFADMIN
NGMFVSPN	No	View span opts Graph.Mon.Fac.	
OPCLASS	Yes	Operator class	
OPCLASSN	No	Operator class values #	

## USER - OMVS

Use this table to determine the fields in the USER - OMVS segment type.

The OMVS segment provides a z/OS UNIX Security context, which you need to log on to z/OS UNIX. OMVS stands for OpenMVS, a prior name for z/OS UNIX System Services.

Fieldname	Repeats	Description	Command parameter
ASSIZE	No	Max. address space size	ASSIZEMAX
CPUTIME	No	Maximum CPU time	CPUTIMEMAX
FILEPROC	No	Max. files open per proc	FILEPROCMAX
HOME	No	z/OS UNIX home path	
MMAPAREA	No	Max. data space for mapping	MMAPAREAMAX
PROCUSER	No	Max. nr. of active procs	PROCUSERMAX
PROGRAM	No	Conditional access program	
THREADS	No	Max. nr. of active threads	THREADSMAX
UID	No	z/OS UNIX user (uid)	

**UID** OMVS UID field with the user identifier. To have the system assign an unused value, fill in "auto." If you want more than one user to share the UID, add "s" at the end of the UID value.

## USER - OPERPARM

Use this table to determine the fields in the USER - OPERPARM segment type.

Fieldname	Repeats	Description	Command parameter
OPERALTG	No	Alternate console group	ALTGRP
OPERAUTH	No	Console authority	AUTH
OPERAUTO	No	Receive msgs automated by MPF	AUTO
OPERCMDS	No	System to send commands to	CMDSYS
OPERDOM	No	Delete operator messages type	OM
OPERKEY	No	KEY keyword of D,CONSOLES,KEY	KEY
OPERLEVL	No	LEVEL of msgs to be received	LEVEL
OPERLOGC	No	Command response logging	LOGCMDRESP



Fieldname	Repeats	Description	Command parameter
OPERM CNT	No	MSCOPE systems #	
OPERM FRM	No	Message format	MFORM
OPERM GID	No	Migration id to be assigned	MIGID
OPERM ON	No	Events to be monitored	MONITOR
OPERM SCP	Yes	MSCOPE systems	MSCOPE
OPERM OUT	No	ROUTCODEs for msg reception	ROUTCODE
OPERM STOR	No	STORAGE in MB for msg queuing	STORAGE
OPERM UD	No	Receive undelivered messages	UD

## USER - OVM

Use this table to determine the fields in the USER - OVM segment type.

Fieldname	Repeats	Description	Command parameter
FSROOT	No	OpenVM file system root	
HOME	No	z/OS UNIX home path	
ROGRAM	No	Conditional access program	
UID	No	z/OS UNIX user (uid)	

## USER - PROXY

Use this table to determine the fields in the USER - PROXY segment type.

BINDPW and BINDPWKY are read-only fields, so they only exist in SegmentList, not in Segment Detail.

Fieldname	Repeats	Description	Command parameter
LDAPHOST	No	LDAP Server URL	
BINDDN	No	Bind Distinguished Name	
BINDPW	No	Bind Password	
BINDPWKY	No	Bind Password Mask   Encrypt Key	

## USER - TSO

Use this table to determine the fields in the USER - TSO segment type.

TSO is the abbreviation of Time Sharing Option, a specific way to communicate with MVS™ by entering line commands, the mainframe equivalent of a DOS prompt. The TSO segment contains information about how to log on to MVS.

USER - TSO/TCONS, TOPTION, TPERFORM, TRBA, and TUPT are read-only fields, so they only exist in SegmentList, not in Segment Detail.

Fieldname	Repeats	Description	Command parameter
TACCNT	No	Default account number	ACCTNUM
TCOMMAND	No	Default command	COMMAND
TCONS	No	Consoles support	
TDEST	No	Destination identifier	DEST
THCLASS	No	Default held sysout class	HOLDCLASS
TJCLASS	No	Default job class	JOBCLASS

Fieldname	Repeats	Description	Command parameter
TLPROC	No	Default logon procedure	PROC
TLSIZE	No	Default logon region size (KB)	SIZE
TMCLASS	No	Default message class	SGCLASS
TMSIZE	No	Maximum region size	MAXSIZE
TOPTION	No	Mail/Notice/Recon/OID options	
TPERFORM	No	Performance group	
TRBA	No	RBA of user broadcast area	
TSCLASS	No	Default sysout class	SYSOUTCLASS
TSOSLABL	No	Default logon SECLABEL	SECLABEL
TUDATA	No	Site data TSO user (2 byte)	USERDATA
TUNIT	No	Default unit name	UNIT
TUPT	No	UPT control block data	

## USER - WORKATTR

Use this table to determine the fields in the USER - WORKATTR segment type.

Fieldname	Repeats	Description	Command parameter
WAACNT	No	Account number	
WAADDR1	No	SYSOUT address line 1	
WAADDR2	No	SYSOUT address line 2	
WAADDR3	No	SYSOUT address line 3	
WAADDR4	No	SYSOUT address line 4	
WABLDG	No	Building for delivery	
WADEPT	No	Department for delivery	
WAEMAIL	No	User's fully qualified email address	
WANAME	No	User name for SYSOUT	
WAROOM	No	Room for delivery	

---

## Chapter 9. Running REXX scripts

zSecure Visual can be customized to allow running site-defined REXX scripts.

When the Visual Server has been configured to access site-defined REXX scripts, you can use the Visual Client to select and run a REXX script. You can find more information in the following topics.

“Prerequisites for running REXX scripts on the Visual Server”

Before you can run site-defined REXX scripts from a Visual Client, an association file must be created in the Visual Server.

“Running a REXX script in the Visual Client”

Use the Visual Client interface to run a REXX script that is configured on the Visual Server. The procedure is described in this section.

---

### Prerequisites for running REXX scripts on the Visual Server

Before you can run site-defined REXX scripts from a Visual Client, an association file must be created in the Visual Server.

Use the instructions in "Site-defined REXX scripts" in the *Installation and Deployment Guide* to configure an association file for site-specific REXX scripts. You can then use the Visual Client to select and run a REXX script at the local server node. Running REXX scripts from remote nodes is not supported.

Scripts will only show when such an association file was defined on the server. If an association file was not defined on the server, the client will not provide a message indicating that no REXX scripts have been defined.

---

### Running a REXX script in the Visual Client

Use the Visual Client interface to run a REXX script that is configured on the Visual Server. The procedure is described in this section.

#### Before you begin

A REXX script must be defined in the Visual Server before the Visual Client can be used to run the script. See “Prerequisites for running REXX scripts on the Visual Server.”

**Note:** Visual Client shows the configured description for the script, not the actual name of the script.

#### Procedure

To run a REXX script in Visual Client, use one of these methods:

- Right-click a profile that belongs to the class for which you want to run a REXX script. For example, use **Navigate**, **Find**, and **Class**: User. Right-click a profile to view the list of the available actions, navigation options, and the description of the REXX scripts that are defined on the Visual Server. Click a description to run the script. This option works for all classes for which REXX scripts have been defined on the Visual Server such as User, Group, and Dataset, or a specific class such as XFACILIT.

- Select **Navigate** in the main client window to view a list of descriptions of the available REXX scripts. Then click the listed description to run the script. This option is available only for scripts that are defined to be run against the class User.

---

## Chapter 10. Managing client definitions

You can use this information to manage client definitions that are required for communication between the Visual server and client.

To access the server, a zSecure Visual client needs a local server definition and a corresponding client definition on the server. With these definitions, a safe communication channel is created. To set up a new, previously unused channel, an initial password is needed once. The client definition contains more information than the server definition; otherwise they are similar.

The mainframe provides limited support for managing client definitions. For more information, see the section about configuring zSecure Visual clients in the server in the *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide*.

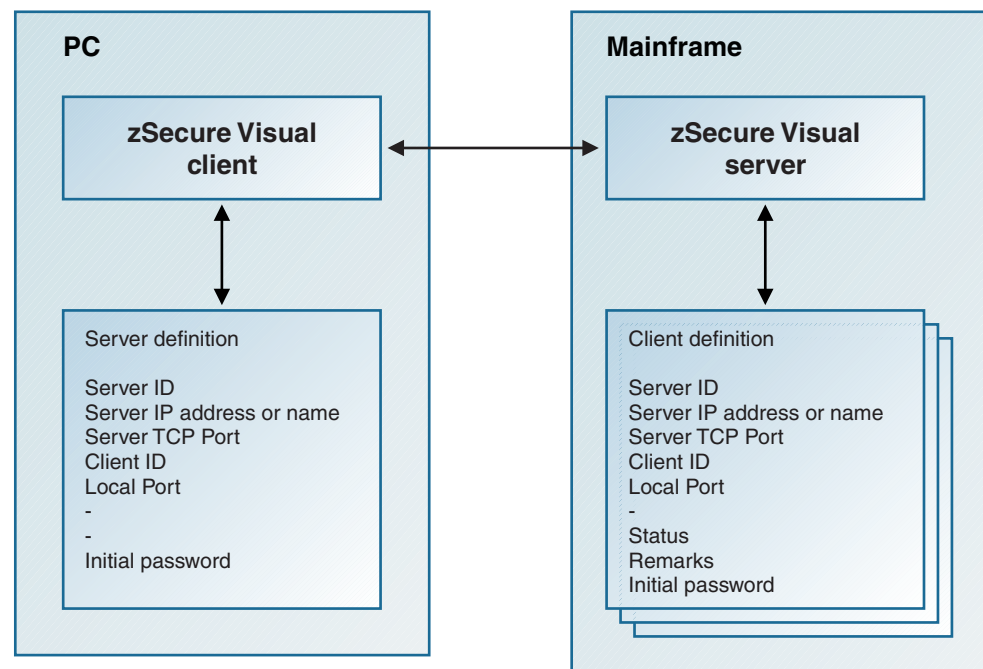


Figure 75. Server and client definitions needed for communication between the server and a client

---

### Maintaining client definitions

The maintenance tasks allow you to create, edit, and delete client definitions for zSecure Visual.

#### About this task

The Maintain Client window enables you to:

- Create client definitions
- Edit or delete existing client definitions
- Generate initial passwords

## Procedure

- To open the Maintain Client window, select **Maintenance > Client** from the main menu. The Maintain Client window lists all existing client definitions for an instance of the zSecure Visual server.

Client ID	Remarks	Status	Initial password
12.1.100	secadmin HTR	active	
12.1.101	generic 100	active	
12.1.102	generic 100	active	
12.1.103	generic 100	active	
12.1.104	back on april 29	deleted	
12.1.105	console machine	deleted	
12.1.106	november batch	active	
12.1.107	november batch	active	
12.1.108	november batch	active	
12.1.109	secadmin GRP	active	
12.1.110	secadmin GRP	active	
12.1.111	secadmin GRP	active	
12.1.112	secadmin GRP	active	
12.1.113	secadmin GRP	active	

Figure 76. Maintain Client window

The client fields are:

### Client ID

Optional. Must be unique to the server. If left empty, the server generates one for you. This field is also known as **Agent ID** on the server.

### Remarks

Optional. Stores any notes for the client definition.

**Status** Read only. Shows deleted or active. You cannot use a deleted client definition to log on.

### Initial password

Read only. Required to initiate communication for a new client. It is generated by the server. The validity is limited to seven days or the length of the server run, whichever ends first.

**Note:** The initial password is displayed only after being generated and only as long as the window remains open. Newly created client definitions are automatically assigned an initial password.

The server attributes are shown at the top of the window: **Server ID**, **IP address or name**, and **TCP Port**. For information about server fields and creating server definitions on the client, see “Server definition parameters” on page 7.

- Select the **Add** button to add a single definition.
- Select the **Edit** button to edit a single definition.
- To delete one or more definitions, select the entries and click **Delete**.
- Use the **Undelete** button to activate a deleted definition.
- To generate one or more new passwords, select the definitions and click **Initial password**.

---

## Batch mode to add multiple client definitions

Use the **Batch add** dialog to create multiple client definitions for zSecure Visual in a batch run.

Use the **Batch Add** dialog to create multiple client definitions using a single action.

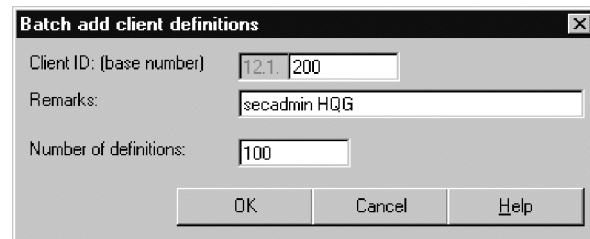


Figure 77. Batch add client definitions dialog

The following fields are displayed:

### Client ID base number

Optional. Specifies the value to start with when generating the Client IDs.

### Remarks

Optional. Text that identifies the purpose of the batch of IDs.

### Number of definitions

Specifies the total number of Client IDs to generate. You can specify a value up to 100.

When the batch run finishes, the **Maintain Client** window is displayed showing the new entries with initial passwords. See Figure 76 on page 152.

---

## Client definition attributes

Specify these attributes to create a corresponding server definition in zSecure Visual.

After you create a client definition, you must specify these attributes for the client:

- Server IP address or name
- Server TCP port number
- Client ID
- Initial password

These attributes are used to create the corresponding server definition. The client and server definitions enable the client to log on to the server. See “Server definition parameters” on page 7 for more information.

---

## Copying a client definition to the clipboard

Use the copy-client procedure to select and distribute specific Visual client definitions to users.

### About this task

From the **Maintain Client** window, you can copy selections of client IDs and initial passwords to the clipboard and mail them to your users.

## Procedure

To copy client definitions to the clipboard, complete these steps:

1. Open the **Maintain Client** window.
2. Generate the client definitions and initial passwords needed for distribution.
3. Select the client definitions that you want to distribute.
4. Copy the selected definitions to the clipboard. The server attributes are added at the top as a header. The client information is laid out in tabbed columns. You can paste to a spreadsheet to retain the column spacing, or to an email. The email layout does not retain the equally spaced tabbed alignment.

Clipboard example:

Server

IP address or name:      test

TCP Port:              8000

Client ID	Remarks	Status	Initial	password
12.1.100	secadmin	HTR	active	63F693FF96
12.1.101	generic	100	active	99F239EF6F
12.1.102	generic	100	active	01E671F0A6



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## Glossary

### CKG profile

A number of profiles in the XFACILIT class control access to the CKGRACF commands. The profile names start with "CKG." **Note:** If the Site Module general resource class name is customized during the server setup, as described in the *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide*, the class with the specified name controls access to the CKGRACF commands, rather than the XFACILIT class.

### Access authority

The authority a user needs to access a protected resource. The higher the authority, the more a user is ed to do.

**Class** All RACF entities, such as, users and resources, are categorized into classes. The Class Descriptor Table contains a description of all classes except USER, GROUP, and DATASET.

### Class Descriptor Table

An assembled RACF table that contains entries for all general resource classes.

### CKGRACF

Short mainframe program name for a utility that issues authority-sensitive RACF commands. Component of IBM Security zSecure.

### CKRCARLA

Short mainframe program name for the IBM Security zSecure application.

### Connect

A profile that connects a user to a group. Depending on the attributes of the connect, a user has different authorizations.

### General Resource

Anything that RACF can protect except users, groups, and data sets. For example, by default the CKG profiles reside in the XFACILIT class, which is a general resource class.

### Global Access Table (GAT)

A fast way to allow access to all users, except restricted users, to a list of resources. Most RACF authority

processing is bypassed. The list is stored in the DATASET profile of the GLOBAL class.

**HLQ** High Level Qualifier or first qualifier. The left-most part of a data set name; the string of letters before the first period.

**ID** User ID or group name.

### Member

Profile members are used to create a list of entries associated with a profile.

**MVS** A mainframe operating system.

### Owner

Every profile has an owner. The user or group that owns the profile can view, change, and delete that profile.

### Permit

Permitted accessibility of a user or group to specified resources.

### Profile

A description of the security-relevant characteristics of one or more users, groups, or resources. A profile is divided into segments.

### Proftype

Profile type. For general resources, it can be discrete or generic. For data sets, it can be generic, nonvsam, vsam, tapedsn, or model.

**RACF** Resource Access Control Facility. A security program that provides access control on an MVS or a VM environment by user identification, access authorization, etc. Renamed to SecureWay Security Server.

**RRSF** RACF Remote Sharing Facility. The IBM RRSF allows RACF to communicate with other IBM z/OS systems that use RACF, allowing you to maintain remote RACF databases. An RRSF node is an MVS system image, or a group of MVS system images sharing a RACF database.

### Schedule

Schedules enable you to set and run timed commands, such as revoke intervals. For example, the administrator can define a future interval for the period

that a user is on vacation. On the specified start date of the vacation, the user is revoked automatically. At the end of the specified period, the user is resumed by the system.

**Segment**

Part of a profile that contains a specific part of the identification.

**Setropts**

A command to set system-wide z/OS options related to resource protection (Set RACF Options).

**Setropts erase**

RACF command.

**Subgroup**

A group becomes a subgroup of the group it has as a superior group.

**Supgroup**

Every group except SYS1 has one superior group. The hierarchy created this way plays an important role in the way access is granted.

**Universal Access Authority (UACC)**

Part of a data set or resource profile that defines the default access that is granted if a user or group is not granted explicit access (except restricted users, which have no access through UACC). Note that for sensitive resources, the UACC is usually set to NONE.

**Userid**

User ID, unique identification for a RACF user.

**z/OS**

A mainframe operating system, containing MVS as a component.

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# Index

## Special characters

- ? 34
- \$DELETE 70
  - schedules, user 79
- \* (asterisk) character, filtering 38
- \* option
  - Scope dialog 46
- % (percentage) character, filtering 38

## A

- About.log 23
- Access
  - add to access list 120
  - edit access list 121
- Access column, access list 118
- access conditions, via 46, 50
- access list
  - Access 118
  - Add
    - Access 120
    - ID 120
    - When 120
  - administration level 28
  - Alter 118
  - Control 118
  - delete entry 122
  - edit
    - Access 121
    - ID 121
    - When 121
  - effective 50
  - Execute 118
  - ID 118
  - None 118
  - printing 33
  - Read 118
  - Scope dialog 46
  - Update 118
  - viewing 53
  - When 118
- accessibility xi
- ACL 118
- ACLCount
  - Properties of resource profile 116
  - Resources table 110
- activate MFA Factor 59
- add
  - Access 120
  - access list 120
  - client definitions, batch 153
  - connect 103
  - field to segment 130
  - group 91
  - ID 120
  - interval to schedule 81
  - member list entry 124
  - multiple server definitions 9
- add (*continued*)
  - segment
    - from Segment Detail window 130, 132
    - to profile 132
  - server definition 7
  - subgroup 89
  - user 67
  - When 120
- Add member dialog 124
- add MFA Factor 59
- add MFA policy 62
- Add resource profile
  - Appldata 113
  - AuditF 113
  - AuditS 113
  - Class 113
  - Erase 113
  - InstData 113
  - Notify 113
  - Owner 113
  - Profile 113
  - Refresh 113
  - UACC 113
  - Warning 113
- Add resource profile dialog 113
- Add schedule interval dialog 81
- Add Segment dialog 132
- Add subgroup dialog 89
- Add to access list dialog 120
- Add/Remove option, Visual client 5
- administration
  - manage overhead 122
  - multiple server definitions 9
  - profile members 122
- Advanced option in search 38
- alias
  - define for new user 67
  - define for subgroup 89
- Also resume
  - Set password 76
- Alter column, access list 118
- alternative ID dropdown 36
- Ambiguous Class selection message 42
- APPCLU - SESSION 135
- Appldata
  - Add resource profile 113
  - Resources table 110
- Application data
  - Properties of resource profile 116
- application segments 128
- association file 149
- asterisk (\*) character, filtering 38
- AT option 36
- Attempts
  - User table 55
- attributes
  - Connect properties for group 99
  - Connect properties for user 99
  - Connects table 97
  - Create connect 103

- attributes (*continued*)
  - gAud 104
  - gOper 104
  - group 91
  - gSpec 104
- audit, system report 52
- AuditF
  - Add resource profile 113
  - Properties of resource profile 116
  - Resources table 110
- Auditor attribute, User properties 63
- AuditS
  - Add resource profile 113
  - Properties of resource profile 116
  - Resources table 110
- Auth values
  - Connects table 97
- Author column
  - Schedules 80
- authority
  - Connect properties 99
- Authority
  - Connect properties 99
  - Create connect 103
- authorization
  - dependent on connect 97
  - interface
    - Access list 28
    - Automatic 28
    - Connect 28
    - Full 28
    - Group 28
    - Helpdesk 28
    - User 28
  - levels 28
- automate upgrade path 15
- automated 10
- automated setup
  - configuration file 10
- Automatic
  - administration level 28

## C

- c2racvn.cfg text file 22
- Categories attribute
  - User properties 63
- CD, installing client from 2
- CDT - CDTINFO 135
- CDTINFO 135
- centralized administration, schedules 79
- CERTDATA 137, 138
- CFDEF 136
- CFIELD - CFDEF 136
- change
  - column sequence 31
  - date format 25
  - default password 76
  - font for dialogs 25
  - font for table 25
  - member 125

- change (*continued*)
    - member list 124
    - password 19
    - Visual client components 5
  - Changed
    - Segment Detail 130
  - CICS 144
  - CKG profile 19, 28
  - CKGPRINT.log 23
  - CKGRACF 19
    - information 34
    - SYSPRINT output 24
    - viewing commands 24
  - CKRCARLA
    - date format 29
    - information 34
    - SYSPRINT output 24
    - viewing commands 24
  - class
    - ambiguous selection 42
    - description 42
    - descriptor table 122
    - groupings 122
    - name 42
    - refresh 126
    - related segments 128
    - status 42
    - view active 42
    - view all 42
    - view authorized 42
  - Class
    - Active 42
    - Add resource profile 113
    - All 42
    - authorizations, User properties 63
    - Authorized 42
    - Find dialog 38
    - Properties of resource profile 116
    - Resources table 110
    - Scope \* dialog 50
    - Scope dialog 46
  - client
    - attributes 1, 153
    - installation 1
    - requirements 1
    - setup 1
  - client definition
    - add batch mode 153
    - copying 153
    - delete 151
    - edit 151
    - maintaining 151
    - maintenance 151
    - undelete 151
    - uploading 153
  - Client ID
    - base number 153
    - batch add client definitions 153
    - Maintain Client 151
    - Server definition 7
  - Client ID client attribute 1, 153
  - column
    - change sequence 31
    - sort by entry 17
  - command line
    - option to automate upgrade 15
  - commands, accessing on mainframe 19
  - Communication window 24, 32
  - communication with mainframe,
    - viewing 24
  - complete installation, Visual client 2
  - completion status, verifying for
    - actions 37
  - Complex
    - Group table 85
    - User table 55
  - complex selection dialog 44
  - configuration
    - automated 10
    - configuration file limitations 12
    - target configuration file 12
    - Visual client 1, 6
  - configuration file
    - configuring on target 12
    - examples 13
    - guidelines 13
    - layout 11
    - limitations 12
    - modify existing 12
    - running on target 12
  - Configuration in export mode dialog 10
  - Configure dialog 6
  - connect
    - add 103
    - attribute 97
    - Auth 97
    - changing 99
    - copy and paste 31
    - create 103
    - default owner 25
    - defining names 31
    - delete 105
    - management 97
    - properties 99
    - RACF users 97
    - unintended 99
    - viewing 21, 43
  - Connect
    - administration level 28
    - authority 97, 99, 103
    - properties for group dialog 99
    - properties for user dialog 99
  - Connect Revoked
    - Connect properties 99
  - Connects table 97
    - attributes 97
    - example of 97
    - gAud 97
    - gOper 97
    - gSpec 97
    - printing 33
  - Control column, access list 118
  - copy
    - resource profile 115
    - server definition 10
  - copy and paste 31
    - Create connect 105
  - create
    - Batch add client definitions
      - dialog 153
    - client definitions, batch 153
    - configuration file 10
    - connect 103
    - data set profile 89, 91
  - create (*continued*)
    - dialog
      - Batch add client definitions 153
    - group 91
    - resource profile 115
    - user 67
  - Create
    - authority 97, 99, 103
    - connect
      - copy and paste 105
      - dialog 103
      - drag and drop 105
  - Created column
    - Schedules 80
  - Created field
    - Connect properties 99
    - Group properties 87
    - Group table 85
    - Resources table 110
    - User properties 63
    - User table 55
  - CSDATA 142, 144
  - CSFKEYS - ICSF 136
  - CSV format, exporting 32
  - custom installation, Visual client 2
- ## D
- data set profile
    - Add subgroup 89
    - generic 67, 91
    - group
      - create 91
      - enforce creation 91
    - user
      - create 67
      - enforce creation 67
  - databases, navigating RACF 35
  - DATASET - DFP 137
  - DATASET - TME 137
  - dataset profile 45
  - DATASET profile 110
  - date format
    - change 25
    - CKRCARLA 29
    - customizing 29
    - ISO 29
    - Windows long 29
    - Windows short 29
  - Date format dialog 29
  - DCE 144
  - DCE UUID
    - Duplicate user 67
  - decentralized administration,
    - schedules 79
  - default
    - connect owner 25
    - password, remove 79
    - password, set 76
  - Default Group
    - Duplicate user 67
    - User table 55
  - Default password
    - Duplicate user 67
    - Set password 75
  - DefaultGrp
    - User table 55



- DefaultGrp attribute
  - User properties 63
- Define Alias 91
  - Add subgroup 89
  - Duplicate user 67
- defining names, rules 31
- delete
  - access list entry 122
  - client definition 151
  - connect 105
  - group 94
  - member 125
  - resource profile 118
  - segment 130
  - server definition 6
  - undo, user 70
  - user 70
- Delete function, schedules 82
- Delete group dialog 94
- delete MFA Factor 59
- delete MFA policy 62
- Delete resource profile dialog 118
- Delete schedule interval dialog 82
- Description
  - Segment Detail 130
- DFP 137, 142, 144
- diagnosing silent installation 14
- diagnostic messages, add to print 25
- dialog
  - change font 25
- dialogs
  - Add member 124
  - Add resource profile 113
  - Add schedule interval 81
  - Add Segment 132
  - Add subgroup 89
  - Add to access list 120
  - Configuration in export mode 10
  - Configure 6
  - Connect properties for group 99
  - Connect properties for user 99
  - Create connect 103
  - Date format 29
  - Delete group 94
  - Delete resource profile 118
  - Delete schedule interval 82
  - Disable user 72
  - Duplicate group 91
  - Duplicate resource profile 115
  - Duplicate user 67
  - Edit access list 121
  - Edit default password 78
  - Edit member 125
  - Enable user 73
  - Find 38
  - Find for groups 85
  - Find users 55
  - Group properties 87
  - Logon 19
  - Member list 123
  - Node Selection 20
  - Options 25
  - Permits 45
  - Properties of resource profile 116
  - Schedules 80
  - Scope 46
  - Scope \* 50

- dialogs (*continued*)
  - Select class 42
  - Select Node for group tree 44
  - Select Nodes 36
  - Server definition 7
  - Server Information 34
  - Set password 74
  - User properties 63
- DIGTCERT - CERTDATA 137
- DIGTRING - CERTDATA 138
- directory
  - configuration file 12
  - log files 23
  - Visual client program 2
- disable MFA Factor 59
- Disable password
  - Set password or passphrase 74
- disable user 70, 72
- Disable user dialog 72
- display unauthorized functions 28
- DLFCLASS - DLFDATA 138
- DLFDATA 138, 139
- documentation
  - obtain licensed publications vi
- drag and drop
  - Create connect 105
- DSN field, adding member 124
- duplicate
  - group 91
  - group segments 91
  - resource profile 115
  - user 67
  - user segments 67
- Duplicate group
  - dialog 91
  - OMVS segment
    - GID 91
    - z/OS UNIX group (grpid) 91
- Duplicate resource profile dialog 115
- Duplicate user
  - DCE segment
    - UUID 67
  - dialog 67
  - KERB segment
    - Kerberos name 67
    - KERBNAME 67
  - LNOTES segment
    - IBM Notes short username 67
    - SNAME 67
  - NDS segment
    - NDS username 67
    - UNAME 67
  - OMVS segment
    - Initial program 67
    - OMVS HOME 67
    - OMVS UNIX home path 67
    - PROGRAM 67
    - UID 67
    - UNIX user (uid) 67

## E

- Eclipse Help System 1
- edit
  - access list
    - Access 121
    - ID 121

- edit (*continued*)
  - access list (*continued*)
    - When 121
  - client definition 151
  - member 125
  - member list 124
  - resource profile 116
  - Segment Detail window
    - Add Field 130
    - Add Segment 130
    - Apply 130
    - Delete Segment 130
    - Refresh 130
  - segment type 127
  - server definition 7
- Edit access list dialog 121
- Edit Default Passphrase
  - User properties 63
- Edit Default Password
  - User properties 63
- Edit default password dialog 78
- Edit member dialog 125
- edit MFA Factor tags 59
- education xi
- effective access list 50
  - printing 33
  - viewing 53
- EIM 139, 140, 144
- EJBROLE - TME 138
- enable user 73
- Enable user dialog 73
- End column
  - Schedules 80
- End field
  - Add schedule interval 81
- Enforce creation of data set profile
  - Add subgroup 89
  - Duplicate group 91
  - Duplicate user 67
- Enterprise Identity Mapping
  - domain 140
- Erase
  - Add resource profile 113
  - Properties of resource profile 116
  - Resources table 110
- errors, viewing in Communication
  - window 24
- Exact option in search 38
- examples of configuration files 13
- Excel format, exporting 32
- Execute column, access list 118
- exit
  - confirm exit option 25
  - Visual client 22
- expired password
  - Set password or passphrase 74
- Expired status
  - User properties 63
- export
  - configuration file 10
  - messages and return codes 24
  - RTF format. 32
  - server definition 6
  - table 32
- extra fields
  - User table 55

## F

- F1 key 17
- FACILITY - DLFDATA 139
- FACILITY - EIM 139
- FACILITY - PROXY 139
- FACILITY - TME 139
- fields
  - group profile segments 142
  - user profile segments 143
- Fieldvalue
  - Segment Detail 130
- Filter option
  - Scope dialog 46
  - search 38
- find 38
  - Advanced option 38
  - Exact option 38
  - extra fields for users 55
  - Filter option 38
  - Find window always on top
    - option 25
  - group 38
  - Mask option 38
  - resource 38
  - Segments option 38
  - user 38
- Find dialog 38
  - Extra Selection Fields Groups 85
  - Installation data 110
  - Owner 110
  - Segment 110
- Find users dialog 55
- folder, Visual client program 2
- font
  - change font dialogs 25
  - change font table 25
- format, date 29
- forms, Status of ... 37
- Full administration level 28

## G

- GAT, refresh 126
- gAud 97
  - Connect properties 99
  - Create connect 103
  - option, Scope dialog 46
- GCSFKEYS - ICSF 136
- generic data set profile
  - group 91
  - user 67
- Generic Resource profile 110
- GID
  - Duplicate group 91
  - OMVS group identifier 143
- Global Access Table
  - option, Scope dialog 46
  - refresh 126
- gOper
  - Connect properties 99
  - Connects table 97
  - Create connect 103
  - option, Scope dialog 46
- group
  - Add subgroup 89

- group (*continued*)
  - auditor attribute
    - Scope dialog 46
  - delete 94
  - designing structure 122
  - display as resource profile 42
  - Extra Selection Fields Find Dialog 85
  - finding 38
  - list scope 46
  - management 85
  - operations attribute
    - Scope dialog 46
  - profile segments
    - GROUP - CSDATA 142
    - GROUP - DFP 142
    - GROUP - OMVS 143
    - GROUP - OVM 143
    - GROUP - TME 143
  - properties 87
  - properties, viewing 21
  - purpose 122
  - remove connects 94
  - remove permits 94
  - special attribute
    - Scope dialog 46
  - table 85
  - wrong display 42
- Group
  - Add subgroup 89
  - administration level 28
  - Connect properties 99
  - Duplicate group 91
  - extra fields in find dialog 85
  - properties 87
  - table 85
- GROUP - CSDATA 142
- GROUP - DFP 142
- GROUP - OMVS 143
- GROUP - OVM 143
- GROUP - TME 143
- Group properties dialog 87
- Group table
  - printing 33
- group tree
  - change font 25
  - Load Complete option 44
  - scope 44
  - viewing 44
- grouping class 122
- gSpec
  - Connect properties 99
  - Connects table 97
  - Create connect 103
  - option, Scope dialog 46
- GXCSFKEY - ICSF 136

## H

- HasPassword
  - User table 55
- HasPhrase
  - User table 55
- help
  - installation 2
  - requirements for using 1
  - viewing information 17
- HelpContact, Server definition 7

- Helpdesk administration level 28
- hide unauthorized functions 28
- high level qualifier (HLQ) 45
- HLQ (high level qualifier) 45
- HOME segment, Duplicate user 67

## I

- IBM
  - Software Support xi
  - Support Assistant xi
- IBM Eclipse Help System 1
- IBM Notes 145
- IBM Notes short username segment
  - Duplicate user 67
- ICSF 136
- ICTX 140
- ID
  - add to access list 120
  - edit access list 121
- ID \* option, Scope \* dialog 50
- ID column, access list 118
- ID options
  - Scope dialog 46
- IDIDMAP profile 82, 112
- import server definition 6
- Inactive
  - User table 55
- Inactive status
  - User properties 63
- Initial password
  - Maintain Client 151
  - Server definition 7
- initial password client attribute 1, 153
- Initial program segment
  - Duplicate user 67
- installation
  - complete 2
  - custom 2
  - methods, Visual client 2
  - requirements 1
  - setup program 2
  - silent 14
  - software requirements 1
  - uninstallation 5
  - Visual client
    - hardware requirements 1
    - Visual client, prerequisites 1
- Installation data
  - Add subgroup 89
  - Duplicate group 91
  - Duplicate user 67
  - Group properties 87
  - Group table 85
  - Properties of resource profile 116
  - Resources table 110
  - User properties 63
  - User table 55
- InstData
  - Add resource profile 113
  - Group table 85
  - Resources table 110
  - User table 55
- interface authorization levels 28
- interface level, setting 25
- interval
  - add to schedule 81

- interval (*continued*)
  - delete schedule 82
  - in schedule 79
  - repeat schedule 81
- Interval column
  - User table 55
- IP address, server attributes 151
- ISO date format 29
- iso file
  - obtain licensed publications vi

## J

- Join authority 97, 99, 103

## K

- KERB 141, 145
- Kerberos name
  - Duplicate user 67
- KERBNAME segment
  - Duplicate user 67

## L

- Label
  - IDIDMAP profile 112
  - Mapping information 82
- LAN directory, installing client from 2
- LANGUAGE 145
- Last connect
  - Connect properties 99
  - User properties 63
- Last logon
  - User properties 63
- Last passphrase change
  - User properties 63
- Last password change
  - User properties 63
- LastConnect
  - User table 55
- LastPhrChange
  - User table 55
- LastPwdChange
  - User table 55
- LDAPBIND - EIM 140
- LDAPBIND - ICTX 140
- LDAPBIND - PROXY 140
- licensed documentation
  - obtain .iso file vi
- limitations to Visual client
  - configuration 12
- List resources
  - Scope dialog 46
- List users and groups
  - Scope dialog 46
- list, view segment 130
- LNOTES 145
- Load Complete feature 44
- Local port
  - Server definition 7
- log files (*continued*)
  - silent installation 14
  - SYSPRINT.log 23
  - SYSTEM.log 23
  - viewing 23
- log off Visual client 22
- logon
  - attempts 55
  - dialog 19
  - RACF 19
  - selecting mode 18

## M

- mainframe
  - communication with client 24
  - logon 19
- Maintain Client window 151
- maintenance
  - client definition 151
  - repair Visual client files 5
  - uninstallation 5
- management
  - connect 97
  - group 85
  - resource 109
  - segments 127
  - user 55
- Manual setup
  - Setup parameters 10
- mapping
  - information, IDIDMAP profile 112
  - profiles 82
  - viewing 82
- Mapping information window 82
- Mappings count
  - User properties 63
- MappingsCount
  - User table 55
- Mask option in search 38
- member
  - delete 125
  - list 122
    - add entry 124
    - changing 125
    - deleting entry 125
    - editing 125
    - viewing 123
  - list, viewing 54
  - printing 33
  - profile 122
  - profile, exceptional uses 123
- Member list dialog 123
- messages, viewing in Communication
  - window 24
- MFA Factor management 59
- MFA policy management 62
- MFADEF - MFPOLICY 140
- MFPOLICY 140
- Microsoft Excel
  - CSV 32
  - RTF 32
- mode
  - local, selecting 18
  - multi-system, selecting 18
- Mode selection listbox 38
- Modify option, Visual client 5

- move, connects 106
- multi-node, limitations on actions 118
- multi-system
  - selecting mode 18
  - use multi-system services option 25
- multiple
  - databases, selecting 36
  - server definitions 9
  - system actions, verifying 37
- MYACCESS, SHOW command 89

## N

- name
  - mapping profile 82
  - rules for defining 31
  - server attributes 151
- Name
  - Add schedule interval 81
  - Duplicate user 67
  - Server definition 7
  - User table 55
- Name attribute
  - User properties 63
- Name column
  - Schedules 80
- NDS 145
- NDS username segment
  - Duplicate user 67
- NETVIEW 145
- New group
  - Duplicate group 91
- New password
  - Set password 75
- New userid
  - Duplicate user 67
- Node Selection dialog 20
- nodes
  - RRSF 20
  - search all 38
  - selected search 38
  - selecting 20
  - zSecure 20
- None column, access list 118
- Notify
  - Add resource profile 113
  - Properties of resource profile 116
  - Resources table 110
- Number of definitions
  - Batch add client definitions 153

## O

- OMVS 143, 146
  - Initial program 67
  - UNIX home path 67
  - UNIX user ID 67
- online
  - publications v, vi, viii
  - terminology v
- ONLYAT option 36
- ONLYAT option for Select Nodes 36
- operating systems, supported for Visual
  - client 1
- Operations attribute
  - User properties 63

- OPERPARM 146
- options
  - add diagnostic messages to print 25
  - change font dialogs 25
  - change font table 25
  - confirm exit 25
  - date format 25
  - default connect owner 25
  - Find window always on top 25
  - include access due to group
    - operations 25
  - include access due to system
    - operations 25
  - include profiles 25
  - interface level 25
  - use multi-system services 25
- Options dialog 25
- OVN 143, 147
- Owner
  - Add resource profile 113
  - Connect properties 99
  - Duplicate user 67
  - Group properties 87
  - Group table 85
  - Properties of resource profile 116
  - Resources table 110
  - User table 55
- Owner attribute
  - User properties 63

## P

- PADCHK field, adding member 124
- passphrase
  - setting 74
- Passphrase expired
  - User properties 63
- password
  - changing 19
  - default 75
  - new 75
  - remove 79
  - resetting 75
  - resume 76
  - set default 76
  - set to previous 75
  - setting 74
- Password
  - Duplicate user 67
- Password attempts
  - User properties 63
- Password interval attribute
  - User properties 63
- paste special 31
- percentage (%) character, filtering 38
- permits 45
  - printing 33
  - remove user 105
- Permits dialog 45
- PhrExpired
  - User table 55
- PhrExpireDate
  - User table 55
- Port conflict
  - avoid 7
- prerequisites for Visual client
  - installation 1

- Previous password
  - Set password 75
- printing
  - menus 33
  - messages and return codes 24
  - preview 33
  - tables 33
- problem-determination xi
- profile
  - add segment 130, 132
  - CKG 28
  - DATASET 110
  - delete resource 118
  - edit resource 116
  - generic 110
  - group segments 142
  - IDIDMAP 82, 112
  - mapping 82
  - members 122
  - members, exceptional uses 123
  - resource 110
  - resource, duplicate 115
  - Segment Detail, Changed
    - column 130
  - segments of resource 134
  - user segments 143
  - view properties 130
  - view Segment Detail window 130
  - warning mode 46
- Profile
  - Add resource profile 113
  - Properties of resource profile 116
  - Resources table 110
- Profile filter
  - Scope \* dialog 50
  - Scope dialog 46
- Profile in Warning
  - Scope dialog 46
- Profile type
  - Properties of resource profile 116
- ProfType
  - Resources table 110
- PROGRAM
  - Duplicate user 67
- PROGRAM - SIGVER 140
- PROGRAM class, adding member 124
- program folder, Visual client 2
- properties
  - Auditor 63
  - Categories 63
  - Class authorizations 63
  - connect
    - Authority 99
    - Connect Revoked 99
    - Created 99
    - gAud 99
    - gOper 99
    - Group 99
    - gSpec 99
    - Last connect 99
    - Owner 99
    - Resume Date 99
    - Revoke Date 99
    - User 99
  - Created 63, 87
  - DefaultGrp 63
  - Expired 63

- properties (*continued*)
  - Group 87
  - Inactive 63
  - Installation data 63
  - Installation Data 87
  - Last connect 63
  - Last logon 63
  - Last password change 63
  - Mappings count 63
  - Name 63
  - Operations 63
  - Owner 63, 87
  - Password attempts 63
  - Password interval 63
  - resource profile 116
  - Revoked 63
  - Security label 63
  - Security level 63
  - Special 63
  - SubGroups 87
  - SupGroup 87
  - TermUACC 87
  - Universal 87
  - user 55
  - User 63
  - user ID 63
  - viewing 21
- Properties of resource profile dialog 116
- Protected
  - User properties 63
  - User table 55
- PROXY 139, 140, 147
- PTKDATA - SSIGNON 141
- publications
  - accessing online v, vi, viii
  - list of for this product v, vi, viii
  - obtain licensed publications vi
  - obtaining licensed v
- PwdExpireDate
  - User table 55

## Q

- question mark, used in tables 34
- quit 22

## R

- RACF 70, 97
  - limitations on multi-node actions 118
  - logon 19
  - navigating databases 35
  - selecting multiple databases 36
  - SETROPTS settings 52
  - SYSPRINT output 24
  - verifying changes 37
- Read column, access list 118
- REALM- KERB 141
- Reason
  - Add schedule interval 81
  - Schedules 80
  - Set password 76
- refresh
  - class 126
  - GAT 126
  - segment 130

- Refresh 115
  - Add resource profile 113
- Registry name
  - IDIDMAP profile 112
  - Mapping information 82
- reinstallation
  - Repair option 5
- Remarks
  - Batch add client definitions 153
  - Maintain Client 151
- remove
  - Connect 105
  - default password 79
  - group 94
  - resource profile 118
  - undo, user 70
  - user 70
  - user permits from group resources 105
  - Visual client program 5
- Repair option, reinstallation 5
- Repeat function, schedules 81
- requests issued by client, viewing 24
- Requests.log 23
- required operating system, installation 1
- requirements for installation 1
- Reset Password
  - Set password 75
- resource
  - finding 38
  - management 109
  - permit 45
  - profile 45
  - profile segments
    - APPCLU - SESSION 135
    - CDT - CDTINFO 135
    - CFIELD - CFDEF 136
    - CSFKEYS, GCSFKEYS, XCSFKEY, GXCSFKEY - ICSF 136
    - DATASET - DFP 137
    - DATASET - TME 137
    - DIGTCERT - CERTDATA 137
    - DIGTRING - CERTDATA 138
    - DLFCLASS - DLFDATA 138
    - EJBROLE - TME 138
    - FACILITY - DLFDATA 139
    - FACILITY - EIM 139
    - FACILITY - PROXY 139
    - FACILITY - TME 139
    - LDAPBIND - EIM 140
    - LDAPBIND - ICTX 140
    - LDAPBIND - PROXY 140
    - MFADEF - MFPOLICY 140
    - PROGRAM - SIGVER 140
    - PTKDATA - SSIGNON 141
    - REALM- KERB 141
    - ROLE - TME 141
    - STARTED - STDATA 142
    - SYSMVIEW - SVFMR 142
  - remove user permits 105
- resource profile
  - add 113
  - copy 115
  - DATASET 110
  - delete 118
  - duplicate 115
  - edit properties 116

- resource profile (*continued*)
  - Generic Resource 110
  - refresh 115, 118
- Resources table
  - ACLCount 110
  - Appldata 110
  - AuditF 110
  - AuditS 110
  - Class 110
  - Created 110
  - Erase 110
  - InstData 110
  - Notify 110
  - Owner 110
  - printing 33
  - Profile 110
  - ProfType 110
  - UACC 110
  - UserIDcount 110
  - Volser 110
  - Warning 110
- resume
  - password 76
  - user 71
- Resume Date
  - Connect properties 99
  - Create connect 103
- return codes
  - viewing in Communication window 24
- revoke a user 70
- Revoke Date
  - Connect properties 99
  - Create connect 103
- Revoke status
  - User table 55
- Revoked
  - User table 55
- Revoked status
  - User properties 63
- REXX script
  - association file 149
  - run script 149
- rich text format (RTF) 24
- right mouse button 31
- ROLE - TME 141
- RRSF node 20
  - alternative ID dropdown 36
  - AT option 36
  - ONLYAT option 36
- RRSF Nodes option 36
- RTF (rich text format) 24

## S

- schedules
  - \$DELETE 70, 79
  - add interval 81
  - administration
    - centralized 79
    - decentralized 79
  - delete interval 82
  - dialog fields 80
  - disable 72
  - enable 73
  - intervals 79
  - repeat function 81

- schedules (*continued*)
  - revoke user 79
  - viewing user 80
- Schedules dialog 80
- scope
  - description 46
  - fields in tables 34
- Scope \*
  - Class 50
  - printing 33
  - Profile filter 50
  - UACC 50
- Scope \* dialog 50
- \* 50
  - Alter-M 50
  - Alter-Operations 50
  - Alter-P 50
  - Auditor 50
  - CKGList 50
  - CKGOwner 50
  - Class field 50
  - deactivated options 50
  - displayed results fields 50
  - Global 50
  - ID \* option 50
  - Operations 50
  - Owner 50
  - Profile filter field 50
  - QualOwner 50
  - SCP.G 50
  - SCP.ID 50
  - SCP.U 50
  - UACC 50
  - UACC option 50
  - Via 50
  - Warning 50
  - When 50
- Scope dialog 46
  - \* on access list 46
  - \* option 46
  - Access 46
  - Alter-M 46
  - Alter-Operations 46
  - Alter-P 46
  - Auditor 46
  - CKGList 46
  - CKGOwner 46
  - Class 46
  - Filter 46
  - gAud option 46
  - Global 46
  - Global Access Table option 46
  - gOper option 46
  - gSpec option 46
  - ID options 46
  - List resources 46
  - List users and groups 46
  - Operations 46
  - Owner 46
  - Profile filter 46
  - Profile in Warning option 46
  - QualOwner 46
  - SCP.G 46
  - SCP.ID 46
  - SCP.U 46
  - UACC 46
  - Via 46

- Scope dialog (*continued*)
    - Warning 46
    - When 46
  - scope of group tree 44
  - search
    - all nodes 38
    - class 38
    - filtering 38
    - Find window always on top 38
    - segment option 38
    - selected nodes 38
    - selected nodes, advanced 38
    - view each node in a separate table 38
  - Security label attribute
    - User properties 63
  - Security level attribute
    - User properties 63
  - segment
    - access 127
    - add 130, 132
    - add field 130
    - application 128
    - authorities 127
    - delete 130
    - edit 130
    - exceptions to editing 133
    - fields, viewing 134
    - list, viewing 130
    - management 127
    - related classes 128
    - resource profiles 134
    - Segment Detail
      - Description 130
      - Fieldvalue 130
    - settings 127
    - types
      - edit 127
      - view 127
    - view 127
  - Segment
    - detail window 130
    - Duplicate group 91
    - Duplicate user 67
    - Group table 85
    - list table 130
    - option in search 38
    - Resources table 110
    - types table 127
    - User table 55
  - Segmenttypes list 127
  - Select class dialog 42
    - Activate 42
    - Active Classes 42
    - All Classes 42
    - Authorized Classes 42
    - Class 42
    - Description 42
  - Select Node for group tree dialog 44
  - Select Nodes dialog 36
    - alternative ID dropdown 36
    - AT option 36
    - ONLYAT option 36
    - RRSF Nodes 36
    - zSecure Nodes 36
  - sequence, change column 31
  - server
    - definition name, turn off 22
    - edit definition 7
    - information 34
    - name client attribute 153
    - TCP port number client attribute 1, 153
    - test connection 7
  - server definition
    - add 7
    - add multiple 9
    - copy 10
    - Delete 6
    - Export 6
    - Import 6
    - settings 1
  - Server definition dialog 7
  - Server ID
    - client attribute 1, 153
    - server attributes 151
    - Server definition 7
  - Server Information dialog 34
  - server IP address client attribute 1, 153
  - Server IP address or name
    - Server definition 7
  - Server Port
    - Server definition 7
  - SESSION 135
  - session, establishing with server 18
  - set
    - default password 76
    - password or passphrase 74
  - Set Passphrase
    - User properties 63
  - Set password dialog 74
  - Set password to expired
    - Set password 76
  - set up Visual client 1
  - Set user as protected
    - Set password or passphrase 74
  - Set user as Protected
    - Duplicate user 67
  - SETROPTS settings report 52
  - settings, configuration file 11
  - setup
    - automated 10
    - configuration file 10
    - configuration file examples 13
    - configuration file limitations 12
    - create configuration file 10
    - Modify option 5
    - repair client files 5
    - uninstallation 5
    - upgrade 6
    - Visual client, prerequisites 1
  - SHOW MYACCESS command 89
  - ShowHost=No option 22
  - SIGVER 140
  - silent installation
    - diagnostics 14
    - log files 14
    - steps 14
  - site-specific columns and fields 32
  - site-specific fields
    - Find dialog 38
    - User properties 63
    - User table 55
  - SNAME
    - Duplicate user 67
  - software installation requirements 1
  - sort column by entry 17
  - Special user attribute 63
  - SSIGNON 141
  - Start column
    - Schedules 80
  - Start field
    - Add schedule interval 81
  - STARTED - STDATA 142
  - Status field
    - Maintain Client 151
  - Status of ... form 37
  - status, verifying completion 37
  - STDATA 142
  - subgroup, add 89
  - SubGroups
    - Group properties 87
    - Group table 85
  - superior group in group tree 44
  - Supgroup
    - Add subgroup 89
    - Duplicate group 91
  - SupGroup
    - Group properties 87
    - Group table 85
  - support
    - Visual client versions 6
  - SVFMR 142
  - SYS1 group 44
  - SYSMVIEW - SVFMR 142
  - SYSPRINT, view output 24
  - SYSPRINT.log 23
  - system audit report 52
  - SYSTEM, view messages 24
  - SYSTEM.log 23
- ## T
- tables
    - change font 25
    - Connects 97
    - exporting 32
    - fields out of scope 34
    - group 85
    - Installation data 85
    - InstData 85
    - member 123
    - Owner 85
    - Resources 110
    - Segment 85
    - Segment list 130
    - Segment type 127
    - Segmenttypes 127
    - SubGroup 85
    - SupGroup 85
    - types to print 33
    - User 55
    - Users 85
    - Visual client compatibility 6
  - TCP Port, server attributes 151
  - terminology v
  - TermUACC
    - Group properties 87
  - Test connection
    - Server definition 7

- test server connection 7
- TME 137, 138, 139, 141, 143
- toolbar 31
- training xi
- troubleshooting xi
- TSO 147
- Type column
  - Schedules 80
- Type field
  - Add schedule interval 81

## U

- UACC
  - Add resource profile 113
  - Properties of resource profile 116
  - Resources table 110
  - Scope \* dialog 50
  - Scope dialog 46
- UID
  - Duplicate user 67
- UNAME
  - Duplicate user 67
- unauthorized functions
  - displaying 28
  - hiding 28
- undeleter client definition 151
- undo delete user 70
- uninstallation of Visual client 5
- unintended connect 99
- Universal
  - Add subgroup 89
  - Duplicate group 91
  - Group properties 87
  - Group table 85
- UNIX home path
  - Duplicate user 67
- UNIX user ID segment
  - Duplicate user 67
- Update column, access list 118
- upgrade
  - automation of path 15
  - compatibility table 6
  - copy server definition 10
  - Visual client, overview 6
- upload client definitions 153
- Use authority 97, 99, 103
- user
  - access 97
  - add 67
  - copy and paste 31
  - create 67
  - delete 70
  - disable 70, 72
  - display as resource profile 42
  - duplicate 67
  - enable 73
  - inactive 55
  - list scope 46
  - management 55
  - mapping 82
  - names 31
  - profile segments
    - USER - CICS 144
    - USER - CSDATA 144
    - USER - DCE 144
    - USER - DFP 144

- user (*continued*)
  - profile segments (*continued*)
    - USER - EIM 144
    - USER - KERB 145
    - USER - LANGUAGE 145
    - USER - LNOTES 145
    - USER - NDS 145
    - USER - NETVIEW 145
    - USER - OMVS 146
    - USER - OPERPARM 146
    - USER - OVM 147
    - USER - PROXY 147
    - USER - TSO 147
    - USER - WORKATTR 148
  - properties 55, 63
  - properties, viewing 21
  - resource 97
  - resume 71
  - revoke 70
  - revoked 55
  - schedules 79
  - set password or passphrase 74
  - to revoke or resume 79
  - wrong display 42
- User
  - administration level 28
  - Connect properties 99
  - table 55
  - USER - CICS 144
  - USER - CSDATA 144
  - USER - DCE 144
  - USER - DFP 144
  - USER - EIM 144
  - USER - KERB 145
  - USER - LANGUAGE 145
  - USER - LNOTES 145
  - USER - NDS 145
  - USER - NETVIEW 145
  - USER - OMVS 146
  - USER - OPERPARM 146
  - USER - OVM 147
  - USER - PROXY 147
  - USER - TSO 147
  - USER - WORKATTR 148
  - user ID
    - User table 55
  - User ID
    - IDIDMAP profile 112
  - user ID attribute
    - User properties 63
  - User ID count
    - Properties of resource profile 116
  - User Name Filter
    - Mapping information 82
  - User properties dialog 63
  - User table
    - printing 33
  - user-defined fields 32
  - UserIDcount
    - Resources table 110
  - Users
    - Group table 85
- usr
  - Auditor 63
  - Categories 63
  - Class authorizations 63
  - Created 63

- usr (*continued*)
  - DefaultGrp 63
  - Expired 63
  - Inactive 63
  - Installation data 63
  - Last connect 63
  - Last logon 63
  - Last password change 63
  - Mappings count 63
  - Name 63
  - Operations 63
  - Owner 63
  - Password attempts 63
  - Password interval 63
  - Revoked 63
  - Security label 63
  - Security level 63
  - Special 63
  - User 63
  - user ID 63
  - UUID segment
    - Duplicate user 67

## V

- version support, Visual client 6
- via access conditions 46
- view
  - member list 123, 124
  - schedule, user 80
  - segment 127
  - segment type 127
- Visual client
  - communication with mainframe 24
  - configuration 1
    - automated 10
    - configuration file 10
    - limitations 12
    - mainframe requirements 1
    - overview 6
    - target machine 12
  - customization 17
  - exit 22
  - help system requirements 1
  - installation 1
    - methods 2
    - modify 5
    - program folder 2
    - repair 5
    - silent 14
    - types 2
    - uninstallation 5
  - log off 22
  - logon dialog 19
  - operating procedures 17
  - primary tasks 17
  - server definition settings 1
  - software requirements 1
  - upgrade
    - compatibility table 6
    - overview 6
- Visual server
  - communication with client 24
- Volser
  - Resources table 110
- Volumes
  - Properties of resource profile 116

## W

### Warning

- Add resource profile 113
- Properties of resource profile 116
- Resources table 110

warning mode, profile 46

### When

- add to access list 120
- edit access list 121
- field, access list 118

### windows

- Communication 24
- Maintain Client 151
- Mapping information 82
- Segment detail 130

Windows long date format 29

Windows short date format 29

WORKATTR 148

## X

XCSFKEY - ICSF 136

## Z

z/OS UNIX group (grpid) 91

z/OS, supported release 1

zSecure Nodes option 36

zSecure server, logon 19

zSecure-defined node 20







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