# CA File Master™ Plus

## Eclipse UI User Guide

### Release 9.1.00

# CA Technologies Product References

This document references the following CA products:

- CA Librarian®
- CA Panvalet®

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# Chapter 1: CA File Master Plus Introduction

CA File Master Plus is a full function z/OS and OS/390 data management product that provides enhanced capabilities for sequential, partitioned (PDS and PDSE), and VSAM files.

CA File Master Plus provides a set of powerful and easy-to-use tools for manipulating z/OS data sets. Many of the functions support specified record filter/selection criteria and allow data to be displayed and modified using COBOL or PL/I copybooks.

You can access CA File Master Plus through a traditional mainframe green screen or through an Eclipse Ready™ graphical user interface (Eclipse UI). The Eclipse UI is a universal tool platform that is used to create a graphical user interface. You can use the Eclipse UI on any Windows system that supports the Eclipse platform. The Eclipse UI provides a Windows-based alternative to the green screen.

This section contains the following topics:



## Use Dynamic Help

The CA File Master Plus help system displays content dynamically to reflect the wizard, dialog, or view that is in focus.

The internal Dynamic Help view contains the following four pages that present help topics in different ways:

**Related Topics Page**

Shows description and links to topics in the online documentation that is related to the current context. You can click More Results to view more links.

**All Topics Page**

Displays the Table of Contents for the online CA File Master Plus documentation arranged in a tree hierarchy that you can expand or collapse as needed.

**Search Page**

Lets you search the online documentation for specific text.

**Bookmarks Page**

Displays online Help topics that you mark as personal bookmarks.

**More information:**

CA File Master Plus Introduction (see page 9)

# Chapter 2: Understanding Your Workspace

When you open the CA File Master Plus Eclipse UI, the Main Window Layout always reverts to the same view as the last time you closed it. Changes you make are retained from session to session.

This section contains the following topics:



## Main Window

When you start CA File Master Plus, the main window displays a set of tabbed sections named views, the main menu bar, and the main toolbar.

Each view on the main window contains a set of items relevant to that area of functionality. For example, the Error Log view contains a list of all error logs for your CA File Master Plus sessions.

Each view contains a toolbar with a set of toolbar buttons relevant to that view. The toolbar buttons help manage the items within that particular view. For example, the Directory List view toolbar buttons let you add servers to the Directory List view and refresh the servers listed there.

**More information:**

Understanding Your Workspace (see page 11)
Views (see page 12)
Manage Shortcut Keys (see page 20)
Set Your Preferences (see page 23)

### Restore the Default Layout

The settings you defined for the Eclipse UI are saved, and the view looks the same the next time you open the application. You can reset the main window layout to its default settings by clicking Window, Reset Perspective. Click OK when the Reset Perspective message appears. The settings are restored to the default application settings.

**More information:**

Main Window (see page 11)

# Views

Views provide a visual presentation of the CA File Master Plus environment. Use views to navigate and manipulate information in CA File Master Plus. A *perspective* is the term for the way your views are displayed in the main window.

Different views are accessible from the Window menu. Views present different information in the product to help you manage data easily. Each view has a toolbar that is customized for that view.

You can have more than one view open at a time. Multiple views are managed using tabs and can be rearranged to suit your needs. Views can be minimized, maximized, and closed using standard Eclipse UI controls.

**More information:**

Understanding Your Workspace (see page 11)
Open a View (see page 12)
Rearrange Tabbed Views (see page 13)
Import a View (see page 14)
Export a View (see page 15)
View Types (see page 16)
Main Window (see page 11)
Manage Shortcut Keys (see page 20)
Set Your Preferences (see page 23)

## Open a View

You can display views that are available but not visible as part of the default layout of the CA File Master Plus main window.

**Follow these steps:**

1. Select Window, Show Views.

   A submenu displays a list of views.

2. Select the view that you want to open.

   The CA File Master Plus main window shows the selected view.

**More information:**

Views (see page 12)
Rearrange Tabbed Views (see page 13)
Import a View (see page 14)
Export a View (see page 15)
View Types (see page 16)

## Rearrange Tabbed Views

CA File Master Plus lets you rearrange the order of views in a tabbed notebook if you prefer to see the views differently on the main window.

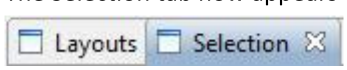
The following procedure illustrates how to rearrange the Layouts and Selection views in a tabbed notebook.

**Follow these steps:**

1. Select Window, Reset Perspective.
2. Click OK on the Reset Perspective dialog.

   The window perspective is reset to its original layout.
3. Select Selection from the Show Views drop-down list on the Window menu.
4. Select Layouts from the Show Views drop-down list on the Window menu.
5. Drag the Selection title bar to the right of the Layouts tab until the cursor appears as a Stack cursor; then release the mouse button.

   The Selection tab now appears to the right of the Layouts tab.

   
   
6. Drag the Layouts tab to the right of the Selection tab until the cursor is a Stack cursor and release the mouse button.

   The Layouts tab now appears to the right of the Selection tab.

**More information:**

Views (see page 12)
Open a View (see page 12)
Import a View (see page 14)
Export a View (see page 15)
View Types (see page 16)

## Import a View

You can import the contents of the Directory List view, Selection view, or the Layouts view from an appropriately formatted Extensible Markup Language (XML) file. A valid XML file is one that contains the exported contents of the same view type from the CA File Master Plus Eclipse UI. For example, to import servers, data sets, and members to the Directory List view, you can only use an XML file that contains exported information from a CA File Master Plus Eclipse UI Directory List view.

**Note:** Any Import action causes the contents of your existing view to be replaced by the contents of the imported file.

**Follow these steps:**

1. Select File, Import.

   The Import wizard displays.

2. Expand the CA File Master Plus folder.
3. Select type of view you want to import and click Next.
4. Click Browse and navigate to the XML file that you want to import.

   The Destination Folder field gets populated with the path to the profile settings file.

5. Click Finish.

   A message displays prompting you to restart the application or cancel the import. A restart is required for the imported view settings to take effect.

6. Click Restart Now or Restart Later.

   The view displays the imported content when the application next starts.

**More information:**

Views (see page 12)
Open a View (see page 12)
Rearrange Tabbed Views (see page 13)
Export a View (see page 15)
View Types (see page 16)

## Export a View

You can export the contents of the Directory List view, Selection view, or the Layouts view to an Extensible Markup Language (XML) file. Save this file to your local hard drive or a shared resource. You or other CA File Master Plus Eclipse UI users can then import the XML file and populate a view with the contents of your exported view.

**Follow these steps:**

1. Select File, Export.

   The Export wizard displays.

2. Expand the CA File Master Plus folder.
3. Select type of view you want to export and click Next.
4. Click Browse and navigate to the location where you want to save the export file in XML format.

   The Destination file field is populated with the path that you specified.

5. (Optional) Select Overwrite existing file if you specified an export file name that already exists. This option will overwrite the contents of the existing file with the contents of the current export.
6. Click Finish.

   The view export file is created and saved to the location that you specified.

**More information:**

Views (see page 12)
Open a View (see page 12)
Rearrange Tabbed Views (see page 13)
Import a View (see page 14)
View Types (see page 16)

# View Types

Use the views available on the main window to navigate through a set of resources such as a listing of data sets and members, reports, and properties. CA File Master Plus provides the following views:

- Directory List (see page 17)

  Shows servers, data sets, and members to which you have connected

- Selection (see page 18)

  Shows selection members that you have added to the Eclipse UI

- Layout (see page 19)

  Shows layout data sets and members that you have added to the Eclipse UI

- Properties (see page 19)

  Shows data set properties

- Report (see page 19)

  Shows report results

- Editor (see page 17)

  Shows the contents of a data set or member in an editable view

**More information:**

Views (see page 12)
Directory List View (see page 17)
Editor View (see page 17)
Selection View (see page 18)
Layout View (see page 19)
Properties View (see page 19)
Report View (see page 19)
Open a View (see page 12)
Rearrange Tabbed Views (see page 13)
Import a View (see page 14)
Export a View (see page 15)

## Directory List View

The Directory List view displays servers, data sets, and members that you add in a tree-style directory. Add frequently used resources to this view so that you can easily access them and perform basic data management operations, such as comparing and copying data sets.

Data sets are listed alphabetically, and you can filter the items to find specific data sets or members.

Enter a text string in the Filter field to find specific items in the Directory List view. The Directory List view then displays only data sets and members that contain your search string.

**More information:**

View Types (see page 16)
Editor View (see page 17)
Selection View (see page 18)
Layout View (see page 19)
Properties View (see page 19)
Report View (see page 19)
Servers (see page 35)
Data Sets (see page 45)
Members (see page 83)
Layouts (see page 113)
Selection (see page 101)

## Editor View

The Editor view displays the contents of a data set or member in either view or edit mode. The data is displayed in either character or single-record format. You can use the toolbar buttons to switch display modes when the editor is open.

**More information:**

View Types (see page 16)
Directory List View (see page 17)
Selection View (see page 18)
Layout View (see page 19)
Properties View (see page 19)
Report View (see page 19)
Editor (see page 123)
Open a Data Set or Member (see page 88)
Character Format (see page 132)
Single-Record Format (see page 132)
Find (see page 137)
Exclude (see page 134)
Reset (see page 141)
Locate (see page 136)
Flip (see page 135)
Cancel (see page 133)

## Selection View

The Selection view displays selection criteria in a tree-style directory. Add frequently used selection members to the Selection view so that you can easily access them. Use this view to manage your selection criteria and perform actions such as creating and modifying selection criteria members. Expand a selection member to view the selection conditions in the member.

**More information:**

View Types (see page 16)
Directory List View (see page 17)
Editor View (see page 17)
Layout View (see page 19)
Properties View (see page 19)
Report View (see page 19)
Condition Specifications (see page 107)
Selection (see page 101)
Add Selection Criteria (see page 102)
Remove Selection Criteria (see page 110)
Create Selection Criteria (see page 103)
Update Selection Criteria (see page 109)
Modify Layout Selection Conditions (see page 104)
Define Selection Conditions (see page 106)

## Layout View

The Layout view displays layout data sets and members that you have added in a tree-style directory. Use the Layout view to create, manage, and view the layouts that are associated with your data sets. You can expand a layout to view the fields that are in the layout. Use this view to manage your layouts and apply them to the data sets and members you are working with.

**More information:**

View Types (see page 16)
Directory List View (see page 17)
Editor View (see page 17)
Selection View (see page 18)
Properties View (see page 19)
Report View (see page 19)
Layouts (see page 113)
Add a Layout (see page 114)
Remove a Layout (see page 122)
View a Layout (see page 120)
Create a Custom Layout (see page 115)
Insert a Layout (see page 119)
Update a Layout (see page 121)
Modify Layout Rules (see page 116)
Define Selection Conditions (see page 106)

## Properties View

The Properties view displays the properties or attributes that are associated with a selected data set.

**More information:**

View Types (see page 16)
Directory List View (see page 17)
Editor View (see page 17)
Selection View (see page 18)
Layout View (see page 19)
Report View (see page 19)
Properties (see page 147)

## Report View

The Report view displays the summary output report upon completion of a utility function. You can us the toolbar button on the Report view to display a detailed report in a new editor pane.

**More information:**

View Types (see page 16)
Directory List View (see page 17)
Editor View (see page 17)
Selection View (see page 18)
Layout View (see page 19)
Properties View (see page 19)

# Manage Shortcut Keys

You can move around the CA File Master Plus main window using certain keyboard keys or key combinations. For example, press Ctrl+Shift+P to open the Copy PDS wizard.

To see the shortcut keys, click Help, Key Assist. The Shortcut Keys window opens on the CA File Master Plus main window.

CA File Master Plus lets you define your own settings for the existing combinations or use the default settings.

Key shortcuts that invoke commands or open views are not discussed in this online help. Some of these commands and views exist because of the framework on which the interface was developed, but they do not perform any specific function in the CA File Master Plus application. CA Technologies does not support the use of these key shortcuts.

**More information:**

Understanding Your Workspace (see page 11)
Customize Shortcut Key Definitions (see page 20)
Restore Default Shortcut Key Settings (see page 22)
Modify Shortcut Key Settings (see page 23)
Main Window (see page 11)
Views (see page 12)
Set Your Preferences (see page 23)

## Customize Shortcut Key Definitions

CA File Master Plus provides default shortcut key definitions for many commands used on the CA File Master Plus. To define new key combinations or customize existing key definitions for CA File Master Plus commands use the Preferences dialog.

**Follow these steps:**

1. Select Window, Preferences.

   The Preferences dialog opens.

2. Select General, Keys.

   The commands appear in a table format that shows the classification for the command, existing shortcut key sequence, and when the shortcut key is used.

   **Note:** Click a header on the commands table to sort the list of commands based on the command properties.

3. Select a scheme from the drop-down list.

   The following list contains the key mapping schemes available for commands on CA File Master Plus:

   - CA File Master Plus—Specifies the scheme provided with this product. It includes mapping for functions specific to this software. This is the recommended scheme.
   - Default—Specifies the default key sequences for all shortcut keys supplied with the framework.
   - Emacs—Specifies the user-defined key sequences for selected shortcut keys to emulate the Emacs editor software.

4. Select the command that you want to modify in the table.

   The following fields are automatically populated:

   **Name**

   Shows the command name. Press the key sequence for the command.

   **Binding**

   Lists the key sequence assigned to the selected command. Enter the new sequence.

   **Note:** To use a special key sequence, click the back arrow button and select Backspace, Tab, or the Shift+Tab key combination.

   **When**

   Lists the situations when you can use the new key sequence. Select a situation from the drop-down list.

5. Click Apply.

   The new key sequence is assigned to the selected command. Click the View tab to see the new shortcut key sequence in the commands table on the Preferences dialog.

6. Click OK to save the settings and close the dialog.

**More information:**

Manage Shortcut Keys (see page 20)

## Restore Default Shortcut Key Settings

You can restore the default shortcut key definitions for commands used in CA File Master Plus. Restoring all keys to the default settings lets you remove all user changes made to specific shortcut key settings.

**Follow these steps:**

1. Select Window, Preferences.

   The Preferences dialog opens.

2. Select General, Keys.

   The Keys dialog shows the preferences for shortcut keys.

3. Click Restore Defaults.

   The Restore Keyboard Defaults dialog opens.

4. Click OK to restore all keys to the default settings.

5. Click OK to close the Keys dialog.

**More information:**

Manage Shortcut Keys (see page 20)
Customize Shortcut Key Definitions (see page 20)
Modify Shortcut Key Settings (see page 23)

## Modify Shortcut Key Settings

To choose your own shortcut keys instead of using a default shortcut key definition for a CA File Master Plus command, edit or remove shortcut key definitions.

**Follow these steps:**

1. Select Window, Preferences.

   The Preferences dialog opens.

2. Select General, Keys.

   The Keys dialog shows the preferences for shortcut keys.

   **Note**: Click a header on the commands table to sort the list of commands based on the command properties.

3. Select a shortcut key command.
4. Do one of the following:
   - Click Copy Command to create a copy of the selected key sequence.
   - Click Remove Binding to remove the key sequence from the command.
   - Click Restore Command to show the default key sequence assigned to the command.
5. Click Apply.

   The changes to the key sequence are updated.

6. Click OK to close the dialog.

   **Note:** All user-defined key sequence settings are cancelled when you restore default key settings.

**More information:**

Manage Shortcut Keys (see page 20)

# Set Your Preferences

**More information:**

[Understanding Your Workspace] (see page 11)
[Set Eclipse UI Preferences] (see page 24)
[Set Startup Preferences] (see page 26)
[Set Preferences for Text Editors] (see page 28)
[Set Shortcut Key Preferences] (see page 30)
[Set Help Preferences] (see page 32)
[Help Content Preferences] (see page 33)
[Main Window] (see page 11)
[Views] (see page 12)
[Manage Shortcut Keys] (see page 20)

## Set Eclipse UI Preferences

**You can set the preferences specific to the CA File Master Plus Eclipse UI using the Preferences dialog.**

**Follow these steps:**

1. Select Window, Preferences.

   The Preferences dialog opens.

2. Select CA File Master Plus Eclipse UI.

   The CA File Master Plus Eclipse UI page displays.

3. Change the default settings for the following fields to suit your needs:

   **Maximum number of recently used items**

   Indicates the maximum number of recently used items to display in the drop-down menu.

   **Always remove items without prompting**

   Disables the dialog that prompts for confirmation when removing an item from the Eclipse UI.

   **Always change data set name without prompting**

   Disables the dialog that prompts for confirmation when renaming a data set.

   **Always exit without prompting**

   Disables the Confirm Exit dialog that displays when you close CA File Master Plus.

   **Disable preview**

   Disables the Preview button on all wizards.

4. Click OK.

   CA File Master Plus saves the changes and closes the Preferences dialog. The changes are used in all succeeding sessions unless you change the preferences again.

   **Note:** You can restore the default configuration settings anytime on the Preferences dialog. To restore the default settings, navigate to the page you want to restore, click Restore Defaults, and then click OK.

**Note:** You can configure the mainframe settings after you have added a server to your Directory List view. For more information about configuring the mainframe settings, see Configure Mainframe Settings (see page 36).

**More information:**

Set Your Preferences (see page 23)
Set Startup Preferences (see page 26)
Set Preferences for Text Editors (see page 28)
Set Shortcut Key Preferences (see page 30)
Set Help Preferences (see page 32)
Help Content Preferences (see page 33)
Configure Mainframe Settings (see page 36)

## Set Startup Preferences

You can set the general preferences for CA File Master Plus using the Preferences dialog.

**Note:** Expanding the General folder displays the Appearance, Capabilities, and Editors options. CA File Master Plus does not provide support for the features that are related to the Capabilities option.

**Follow these steps:**

1. Select Window, Preferences.

   The Preferences dialog opens.

2. Select General.

   The Preferences dialog opens the General page.

3. Change the default settings for the following fields to suit your needs:

   **Keep next/previous editor, view and perspectives dialog open**

   Lets you access the pages on a dialog that you have previously seen for an active project. Click the Previous or Next arrow button to see the previous or next page respectively.

   **Note**: When you close the dialog and then reopen it, the previously stored page order will not be available.

   Specifies that the Program Listing area and the view cycle dialogs remain open after you release their activation keys. Usually, the dialogs or menus close as soon as you release the activation keys (such as Ctrl+F7).

   **Default:** Off

   When this preference is checked, you can use the key combination Ctrl +F7 on the CA File Master Plus main window to keep the pop-up menu listing those views that can be opened, when you release the control keys. When this check box is cleared, the pop-up menu remains visible only as long as you hold down the control key. If you release the control key, the pop-up menu closes.

**Open mode**

Specifies the default behavior for opening views and programs in the Program Listing area. You can select one of the following methods for opening these resources:

**Double click**

Specifies a single-click to select a resource and a double-click to open that resource in the Program Listing area.

**Single click (Select on hover)**

Specifies hovering the mouse over a resource to select it and single-clicking on the resource to open it in the Program Listing area.

**Single click (Open when using arrow keys)**

Specifies using the arrow keys to select a resource and automatically opening it in the Program Listing area.

**Default:** Double click

**Note:** The effect of these selections may vary depending on the view that has the focus.

4. Click OK.

   CA File Master Plus saves the changes and closes the Preferences dialog. The changes are used in all succeeding sessions unless you change the preferences again.

   **Note:** You can restore the default configuration settings anytime on the Preferences dialog. To restore the default settings, navigate to the page you want to restore, click Restore Defaults, and then click OK.

**Note:** CA File Master Plus does not support Always run in background and Show Heap Status fields in this dialog.

**More information:**

Set Your Preferences (see page 23)
Set Eclipse UI Preferences (see page 24)
Set Preferences for Text Editors (see page 28)
Set Shortcut Key Preferences (see page 30)
Set Help Preferences (see page 32)
Help Content Preferences (see page 33)
Set Shortcut Key Preferences (see page 30)
Set Help Preferences (see page 32)

## Set Preferences for Text Editors

To specify the settings that affect the general appearance and behavior of the text editors use the Preferences dialog.

**Follow these steps:**

1. Select Window, Preferences.

   The Preferences dialog opens.

2. Expand General and select Editors, Text Editors.

   The Preferences dialog opens the Text Editors page.

   **Note:** CA File Master Plus does not support the settings for the following options for text editors: Accessibility, Annotations, Hyperlinking, Linked mode, Quick Difference, and Spelling.

3. Change the default settings for the following fields to suit your needs:

   **Highlight current line**

   Highlights the current line in text editors.

   **Default:** On

   **Show print margin**

   Displays the print margin. Checking this box enables the Print margin columns field.

   **Default:** Off

   **Print margin columns**

   Lets you specify the print margin column.

   **Default:** 80

   **Show line numbers**

   Displays line numbers on the left side of text editors.

   **Default:** Off

   **Show range indicator**

   Displays the range indicator for text editors.

   **Default:** On

**Appearance color options**

Lets you specify the color for the following values:

- Line number foreground
- Current line highlight
- Print margin
- Find scope
- Selection foreground color
- Selection background color
- Background color
- Foreground color
- Hyperlink

**Note:** CA File Master Plus does not support the following fields and options and is not responsible for the results if you choose to use any of these options.

- Undo history size
- Displayed tab width
- Insert spaces for tabs
- Show whitespace characters
- Show affordance in hover on how to make it sticky
- When mouse moved into hover
- Enable drag and drop of text
- Warn before editing a derived file
- Smart caret positioning at line start and end

4. Click OK.

   CA File Master Plus saves the changes and closes the Preferences dialog. The changes are used in all succeeding sessions unless you change the preferences again.

   **Note:** You can restore the default configuration settings anytime on the Preferences dialog. To restore the default settings, navigate to the page you want to restore, click Restore Defaults, and then click OK.

**More information:**

Set Your Preferences (see page 23)
Set Eclipse UI Preferences (see page 24)
Set Startup Preferences (see page 26)
Set Shortcut Key Preferences (see page 30)
Set Help Preferences (see page 32)
Help Content Preferences (see page 33)

## Set Shortcut Key Preferences

To move around the CA File Master Plus main window use keyboard keys or key combinations.

You can modify the default shortcut keys assigned for certain functions in CA File Master Plus. The General Preference settings for keys affect the key mapping or binding used to perform various functions in CA File Master Plus.

To see the shortcut keys, click Help, Key Assist. The Shortcut Keys window opens on the CA File Master Plus main window.

Key shortcuts that invoke commands or open views are not discussed in this online help. Some of these commands and views exist because of the framework on which the interface was developed, but they do not perform any specific function in the CA File Master Plus application. CA Technologies does not support the use of these key shortcuts.

**Note:** The Key mapping feature provides the ability to modify key assignments. CA File Master Plus does not support the functionality of these key mappings.

**Follow these steps:**

1. Select Window, Preferences.

   The Preferences dialog opens.

2. Expand General and select Keys.

   The Preferences dialog opens the Keys page. This page lists the default key mappings for all commands and functions in CA File Master Plus.

3. Select a scheme from the Scheme drop-down list. Choose CA File Master Plus, Default, or Emacs scheme.

   The Keys page lists the command key sequences for the selected scheme. A table displays binding, action, and category for each command key sequence.

4. Scroll or type the name of the command key sequence you want to edit.

   The Preview pane shows the details such as name of the selected key sequence, description, binding, event when the selected key works, and conflicts information.

5. Change the default settings for the selected key to suit your needs:

   **Name**

   Displays a name for the command key sequence. This is a non-editable field.

   **Description**

   Displays a description for the command key sequence. This is a non-editable field.

   **Binding**

   Displays the binding key combination for the command key sequence. Type the key sequence you want to assign to the function in the Key Sequence, Name field. Click the arrow and select Backspace, Tab, or Shift+Tab to set key combinations for the selected key sequence.

   **When**

   Displays a list of actions for command key sequences. Select the action when you want to initiate a selected key sequence from the drop-down list.

   **Conflicts**

   Displays a conflicting key sequence that uses the same key combination as the selected command key sequence. Change the value in the Binding field.

6. Click OK.

   CA File Master Plus saves the changes and closes the Preferences dialog. The changes are used in all succeeding sessions unless you change the preferences again.

   **Note:** You can restore the default configuration settings anytime on the Preferences dialog. To restore the default settings, navigate to the page you want to restore, click Restore Defaults, and then click OK.

**More information:**

Set Your Preferences (see page 23)
Set Eclipse UI Preferences (see page 24)
Set Startup Preferences (see page 26)
Set Preferences for Text Editors (see page 28)
Set Help Preferences (see page 32)
Help Content Preferences (see page 33)

## Set Help Preferences

To specify the Help preferences that affect the way the online help is displayed and determine whether an external browser is used to display help information use the Preferences dialog.

**Note:** If you do not specify use of an external help browser, CA File Master Plus uses an internal panel to host the web browser.

**Follow these steps:**

1. Select Window, Preferences.

   The Preferences dialog opens.

2. Double-click Help.

   The Preferences dialog opens the Help page.

3. Change the default settings for the following fields to suit your needs:

   **Open help search**

   Specifies whether to open the help search in the dynamic help view or in a browser.

   **Default:** In the dynamic help view

   **Open help contents**

   Specifies whether to open the help contents in the internal help browser or an external browser.

   **Default:** In the help browser

**Open window context help**

Specifies whether to open the context help for windows in a dynamic view panel or in a pop-up information box (infopop).

**Default:** In the dynamic help view

**Open dialog context help**

Specifies whether to open dialog context help in a dialog tray or in a pop-up information box.

**Default:** In a dialog tray

4. Click OK.

   CA File Master Plus saves the changes and closes the Preferences dialog. The changes are used in all succeeding sessions unless you change the preferences again.

   **Note:** You can restore the default configuration settings anytime on the Preferences dialog. To restore the default settings, navigate to the page you want to restore, click Restore Defaults, and then click OK.

**More information:**

Set Your Preferences (see page 23)
Set Shortcut Key Preferences (see page 30)

## Help Content Preferences

Content preferences are not currently supported by CA File Master Plus.

**More information:**

Set Your Preferences (see page 23)
Set Eclipse UI Preferences (see page 24)
Set Startup Preferences (see page 26)
Set Preferences for Text Editors (see page 28)
Set Shortcut Key Preferences (see page 30)
Set Help Preferences (see page 32)

# Chapter 3: Servers

CA File Master Plus relies on a server running on a z/OS mainframe to provide all mainframe services.

The CA File Master Plus server is installed with the mainframe component of CA File Master Plus. It is started by submitting a CA supplied job to z/OS. The server continues to execute until an administrator issues a stop command or the job gets canceled.

Once started, the application uses a TCP/IP port number that enables CA File Master Plus to communicate with the z/OS mainframe. A port number is assigned during the installation of the server. You must specify this port number when you define a server connection.

This section contains the following topics:



## Add a New Server Connection

Before you start to view and edit data, you need to connect to a server. When you add a server it appears in the Directory List view.

**Follow these steps:**

1. Select CA File Master Plus, Add Server.

   The New Server Definition dialog opens.

2. Complete the following fields:

   **Name**

   Specifies the name of the server connection. Valid values are uppercase and lowercase alphanumeric characters, special characters, and embedded spaces.

   **Host**

   Specifies the z/OS host name assigned by your installation that is used for a TSO or CICS logon.

**Port**

Specifies the TCP/IP port number of the server.

3. Click Finish.

   The server is added to the Directory List view.

**More information:**

Servers (see page 35)
Configure Mainframe Settings (see page 36)
Log On to the Mainframe (see page 40)
Reconfigure a Server (see page 41)
Reset Server Password (see page 42)
Refresh Server Status (see page 42)
Remove a Server Connection (see page 43)

# Configure Mainframe Settings

Configure your mainframe settings to specify your default processing and change log parameters and other settings specific to the servers you are connecting to. You must add a server to your Directory List view before you can configure these settings.

**Follow these steps:**

1. Open the Directory List view.
2. Right-click the server you want to configure and select Configure Mainframe Settings.
3. Set the options on Defaults tab.

   **Confirm data set deletes on mainframe**

   Displays a confirmation screen when you delete a data set from the mainframe.

   **Confirm member deletes on mainframe**

   Displays a confirmation screen when you delete a member from a data set on the mainframe.

Specify one of the following:

**DASD unit name**

Specifies the initial value used for the generic unit name when new data sets are allocated.

**Default:** SYSDA

**SMS storage class**

Specifies the initial value for the SMS storage class used for the allocation of new data sets that will be SMS-managed.

**Job information**

Specify 1-4 lines of JCL control statements, usually jobcard information. These lines are inserted at the beginning of all CA File Master Plus-generated batch jobs.

**Note:** Each line can contain up to 73 characters.

4. Set the options on the Parm Files tab.

**Selection criteria**

Defines the selection criteria PDS that contains statements used to filter your view of data.

**Custom record layout**

Defines the default custom record layout PDS.

**Note:** You can allocate a new data set by clicking on the Allocate button. For more information, see Allocate a New Parm PDS (see page 40) in the online help.

5. Set the options on the Change Log tab.

**Data set name pattern**

Displays the name of the change log file. This field is not editable.

**Storage**

Set one of the following:

**Volume serial**

Identifies the volume on which a new change log file will be allocated.

**Note:** Select this only when directing the change log to a specific volume.

**Generic unit**

Identifies the generic unit on which a new change log file will be allocated.

**Note:** Leave this blank if you want to use the generic unit default value.

**Primary allocation**

Defines the number of cylinders to indicate the space of the primary allocation of the change log data set. The value must be greater than zero.

**Secondary allocation**

Defines the number of cylinders to indicate the space of the secondary allocation of the change log data set.

6. Set the options on the Print tab. The options and values you specify here become the default values for the print function.

**Sysout class**

Specifies the position of the sysout class to which you want the printer routed.

**Number of copies**

Specifies the number of copies that you want printed.

**(Optional) Define print destination**

Specifies the printer you want to use. Select one of the following options:

**Destination printer**

Specifies the printer ID of the local or remote printer to which you want the print job routed.

**External JES node**

Specifies the external JES node name to which you want the print job routed.

**Sysout writer name**

Specifies the member name of the sysout writer program to which you want the print job routed.

**Print data set name**

Specifies the name of the data set to which you want to print.

**Print member name**

Specifies the name of the member to which you want to print. Also specify the data set disposition:

- Select SHR if you want the printed data to replace the contents of an existing data set. This option allows concurrent access to the data set while the print is in progress.
- Select MOD if you want the printed data added to the end of an existing data set.
- Click the New button to create a new data set.

**Note:** For detailed information about the Allocate screen, see one of the following topics in the online help:

Allocate a New PDS (see page 62)

Allocate a New Sequential Data Set (see page 65)

Allocate a New VSAM Data Set (see page 67)

**Note:** The options and values you specify here will be the default print settings when you access the print function in CA File Master Plus.

7. Click Finish.

   Your mainframe settings for this server are configured.

**Note:** You can configure the Eclipse UI preferences from the Window menu. For more information about configuring the Eclipse UI preferences, see Set Eclipse UI Preferences (see page 24).

**More information:**

Servers (see page 35)
Allocate a New Parm PDS (see page 40)
Add a New Server Connection (see page 35)
Log On to the Mainframe (see page 40)
Reconfigure a Server (see page 41)
Reset Server Password (see page 42)
Refresh Server Status (see page 42)
Remove a Server Connection (see page 43)
Set Eclipse UI Preferences (see page 24)

## Allocate a New Parm PDS

You can define a new parm PDS when configuring your mainframe settings. Use the Allocate button to allocate the new PDS from within CA File Master Plus so you do not have to configure the new PDS manually.

**Follow these steps:**

1. Open the Allocate a New Parm PDS dialog from the Configure Mainframe Settings dialog. For more information, see Configure Mainframe Settings (see page 36).
2. Complete the DSN of New Parm PDS field to define the data set name.
3. Specify the Allocation Options

   **Allocate empty**

   The new PDS is allocated with no members.

   **Allocate and copy selected members**

   The new PDS is allocated, and then you select members to copy from the PDS specified in the Copy from PDS field.

   **Allocate and copy all members**

   The new PDS is allocated, and members from the PDS specified in the Copy from PDS field are copied.
4. Click Next.

   The Allocate a New Partitioned Data Set dialog opens.
5. Complete the Allocate a New Partitioned Data Set dialog. For more information, see Allocate a New Partitioned Data Set (see page 62).

   The new parm PDS is allocated as defined.

**More information:**

Configure Mainframe Settings (see page 36)
Refresh Server Status (see page 42)
Add a New Server Connection (see page 35)
Reconfigure a Server (see page 41)
Remove a Server Connection (see page 43)
Reset Server Password (see page 42)
Configure Mainframe Settings (see page 36)

# Log On to the Mainframe

You are prompted to supply your logon credentials the first time you request data from the server or send data to the server.

# Reconfigure a Server

You can reconfigure the existing server definitions displayed on the Directory List view.

**Follow these steps:**

1. Open the Directory List view.
2. Right-click the server that you want to configure and click Update Server.

   The Update Server Definition dialog opens.
3. Modify the details for the server that you want to configure.

   **Name**

   Specifies the name of the server connection.

   **Valid values**: uppercase and lowercase alphanumeric characters, special characters, and embedded spaces.

   **Host**

   Specifies the z/OS host name assigned by your installation. This is the host name used for TSO logon.

   **Port**

   Specifies the TCP/IP port number for the selected server.
4. Click Finish.

   The server definition is updated and the Directory List view shows the details of the modified server.

**More information:**

Servers (see page 35)
Add a New Server Connection (see page 35)
Configure Mainframe Settings (see page 36)
Log On to the Mainframe (see page 40)
Reset Server Password (see page 42)
Refresh Server Status (see page 42)
Remove a Server Connection (see page 43)

# Reset Server Password

You can reset the password for any server connection listed in the Directory List view. Reset Password clears the password you have stored. You will be prompted to enter your password the next time CA File Master Plus accesses the mainframe.

**Note:** You cannot change your mainframe password in CA File Master Plus.

To reset your server password, right-click the server connection in the Directory List view whose password you want to reset, and then click Reset Password.

**More information:**

Servers (see page 35)
Add a New Server Connection (see page 35)
Configure Mainframe Settings (see page 36)
Log On to the Mainframe (see page 40)
Reconfigure a Server (see page 41)
Refresh Server Status (see page 42)
Remove a Server Connection (see page 43)

# Refresh Server Status

You may want to refresh the status for server connections in the Directory List view.

To refresh the status of a server, right-click the server name and select Refresh Server.

The Directory List view reloads to show the most current status for the server connections that you refreshed.

**More information:**

Servers (see page 35)
Add a New Server Connection (see page 35)
Configure Mainframe Settings (see page 36)
Log On to the Mainframe (see page 40)
Reconfigure a Server (see page 41)
Reset Server Password (see page 42)
Remove a Server Connection (see page 43)

# Remove a Server Connection

You can remove a server connection from the Directory List view. If you are no longer using a server, you may want to remove the connection to maintain a clean workspace.

**Follow these steps:**

1. Open the Directory List view.
2. Right-click the server that you want to remove and select Remove Server From List.

   **Note:** You can use Ctrl-click or Shift-click to remove multiple servers.

   A confirmation dialog opens.
3. Click Yes.

   The selected server connection is removed from the Directory List view. The view refreshes to show the list of available server connections.

**More information:**

Servers (see page 35)
Add a New Server Connection (see page 35)
Configure Mainframe Settings (see page 36)
Log On to the Mainframe (see page 40)
Reconfigure a Server (see page 41)
Reset Server Password (see page 42)
Refresh Server Status (see page 42)

# Chapter 4: Data Sets

You can use CA File Master Plus to manipulate z/OS data sets. You can add, delete, copy, edit, and print VSAM, sequential, PDS data sets, and PDS members. Perform these actions through the Directory List view after adding one or more servers.

**Note:** You can view the properties of any data set in your Directory List view. To display data set properties, right-click a data set and select Properties.

**Note:** The application supports PDS and PDSE files. Where ever the documentation says PDS, it also refers to PDSE files, unless otherwise noted.

This section contains the following topics:



## Select a Data Set

Many of the tools in CA File Master Plus require that you select or identify data sets upon which to perform an action. You can select data sets in several ways. The method that best meets your needs is defined by the task you are attempting to accomplish and the information you have available.

To specify a data set in a field like the Data set name field in dialogs and wizards such as Add a Data set, Add Layout, and Add Selection Criteria, follow the steps in one of the following methods:

- Use the drop-down menu to select a data set from the history of previously used data set names
- Type a fully qualified data set name of 1 - 44 characters, with each qualifier being 1 - 8 characters long. Characters can be alphanumeric (A - Z, 0 - 9), national (@,#,$), or a hyphen (-). Separate each qualifier with a period (.). The first character of a qualifier must be a letter or a national character.

- Type a wildcarded data set name and complete the following steps:
  - Click Select.

    The dialog is populated with data set names that match your wildcarded criteria. The populated table displays the following columns:
    - Data set name
    - Volume
    - File type
    - Data set organization string (DSOrgStr)
    - Logical record length (LRECL)
    - Block Size (BlkSize)
    - Record (RecFM)
    - Tracks
    - Extents
    - Date Created
    - Date Referenced
  - Select the check box next to the data set that you want to add to the view. Select more than one check box to add multiple data sets, or use the Select All button to select all data sets in the list.

  **Note:** The application supports the standard IBM wildcard characters *, **, and %.

**More information:**

Data Sets (see page 45)
Add a Data Set (see page 47)
Remove a Data Set (see page 48)
Rename a Data Set (see page 49)
Rename a VSAM Data Set (see page 50)
Delete a Data Set (see page 51)
Copy Utility (see page 51)
Allocate (see page 61)
Compare Utility (see page 69)
Print Utility (see page 78)
Properties (see page 147)

# Add a Data Set

Add a data set to your Directory List view to work with the data set or members within the data set. You can add any number of data sets to your view.

**Follow these steps:**

1. Open the Directory List view.
2. Select the server in the Directory List view to which you want to add a data set.
3. Right-click and select Add Data Set.

   The Add Data Set dialog opens.
4. Complete the following fields:

   **Data set name**

   Specifies the name of the data set you want to add.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

   **Volume serial**

   Enter the volume serial only if the data set is not cataloged. Otherwise, leave this field empty.
5. Click Finish.

   The data set is added to the list of data sets under the selected server.

   **Note:** Data sets are listed in alphabetical order.

**More information:**

Data Sets (see page 45)
Select a Data Set (see page 45)
Remove a Data Set (see page 48)
Rename a Data Set (see page 49)
Rename a VSAM Data Set (see page 50)
Delete a Data Set (see page 51)
Copy Utility (see page 51)
Allocate (see page 61)
Compare Utility (see page 69)
Print Utility (see page 78)
Properties (see page 147)

# Remove a Data Set

You can remove data sets you no longer want in your Directory List view. This procedure removes the data set from your Directory List view, but does not otherwise alter the data set itself. To delete a data set from the mainframe, use the Delete function. For more information, see Delete a Data Set (see page 51).

**Follow these steps:**

1. Open the Directory List view.
2. Right-click the data set that you want to delete and select Remove Data Set From List.

   **Note:** You can use Ctrl-click or Shift-click to remove multiple data sets.

   The Confirm Remove dialog opens.
3. Click OK.

   The data set is removed from the server. The Directory List view refreshes to show the list of available data sets.

**More information**

Data Sets (see page 45)
Select a Data Set (see page 45)
Add a Data Set (see page 47)
Rename a Data Set (see page 49)
Rename a VSAM Data Set (see page 50)
Delete a Data Set (see page 51)
Copy Utility (see page 51)
Allocate (see page 61)
Compare Utility (see page 69)
Print Utility (see page 78)

# Rename a Data Set

You can rename a cataloged data set on the mainframe using the Eclipse UI through the Directory List view.

**Follow these steps:**

1. Open the Directory List view.
2. Right-click the data set that you want to rename and select Mainframe Data Set Utilities, Rename Data Set.

   The Rename Data Set dialog displays.
3. Type the new name into the New name field.
4. Click OK.

   The data set is renamed on the mainframe, and the Directory List view updates to reflect the new name.

**More information:**

Data Sets (see page 45)
Select a Data Set (see page 45)
Add a Data Set (see page 47)
Remove a Data Set (see page 48)
Rename a VSAM Data Set (see page 50)
Delete a Data Set (see page 51)
Copy Utility (see page 51)
Allocate (see page 61)
Compare Utility (see page 69)
Print Utility (see page 78)

# Rename a VSAM Data Set

You can rename a VSAM data set on the mainframe using the Eclipse UI through the Directory List view.

**Follow these steps:**

1. Open the Directory List view.
2. Right-click the VSAM data set that you want to rename and select Mainframe Data Set Utilities, Rename Data Set.
3. Type the new name into the New cluster field.

   **Note:** By default, the Same update to data and index option is selected. You can modify the data and index names by clearing this check box and typing the new data and index names into the New data and New index fields.
4. Click OK.

   The Confirm Rename dialog displays.

   **Note:** You can customize the Eclipse UI to rename data sets and members without prompting for confirmation. For more information, see Set Eclipse UI Preferences (see page 24).
5. Click OK.

   The data set is renamed on the mainframe, and the Directory List view updates to reflect the new name.

**More information:**

Data Sets (see page 45)
Select a Data Set (see page 45)
Add a Data Set (see page 47)
Remove a Data Set (see page 48)
Rename a Data Set (see page 49)
Delete a Data Set (see page 51)
Copy Utility (see page 51)
Allocate (see page 61)
Compare Utility (see page 69)
Print Utility (see page 78)

# Delete a Data Set

You can delete a cataloged data set from the mainframe using the Eclipse UI. The following procedure deletes a data set from the mainframe and removes it from your Directory List view.

**Follow these steps:**

1. Open the Directory List view.
2. Right-click the data set that you want to delete and select Mainframe Data Set Utilities, Delete Data Set.

   **Note:** You can use Ctrl+click or Shift+click to delete multiple data sets.

   The Confirm Delete dialog displays.

   **Note:** You can configure the application so that the confirm dialog does not display. Set this option in the Configure Mainframe Settings dialog. For more information, see Configure Mainframe Settings (see page 36).
3. Click OK.

   The data set is deleted from the mainframe and removed from the Directory List view. The Directory List view refreshes to show the list of available data sets.

**More information:**

Data Sets (see page 45)
Select a Data Set (see page 45)
Add a Data Set (see page 47)
Remove a Data Set (see page 48)
Rename a Data Set (see page 49)
Rename a VSAM Data Set (see page 50)
Copy Utility (see page 51)
Allocate (see page 61)
Compare Utility (see page 69)
Print Utility (see page 78)

# Copy Utility

You can use CA File Master Plus to copy PDS files and members, Sequential data sets, and VSAM data sets. Use this feature to perform tasks such as creating backup and recovery files or test files. To access the copy utility menu option, right-click the data set that you want to copy. If the data set is not listed in the Directory List view, select Copy from the CA File Master Plus, Utilities menu.

**More information:**

Data Sets (see page 45)
Copy a PDS File (see page 52)
Copy a Sequential File (see page 56)
Copy a VSAM File (see page 59)
Select a Data Set (see page 45)
Add a Data Set (see page 47)
Remove a Data Set (see page 48)
Rename a Data Set (see page 49)
Rename a VSAM Data Set (see page 50)
Delete a Data Set (see page 51)
Allocate (see page 61)
Compare Utility (see page 69)
Print Utility (see page 78)
Select a Data Set (see page 45)
Select a Member (see page 83)

## Copy a PDS File

The copy utility lets you copy an entire PDS data set or selected members of a PDS data set into another existing data set or into a newly allocated data set.

**Follow these steps:**

1. Open the Directory List view.
2. Select the data set or member name that you want to copy.
3. Right-click and select Utilities, Copy PDS.

   The Copy PDS Utility wizard opens. The Data set name field displays the name of the data set you selected.

   **Note:** You can copy data sets not listed in your Directory List view by selecting Utilities, Copy from the CA File Master Plus menu. If you select this option, there is an additional page at the beginning of the wizard in which you identify the data set that you want to copy.

4. Complete the following fields to identify what you want to copy:

   **(Optional) Member name**

   Specifies the specific member or members that you want to copy. Enter an asterisk (*) to copy all members.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).

   **Note:** You can specify a new name for copied members in the Rename column of the Members table.

   **Volume serial**

   Specifies the volume serial. This step is mandatory if the data set is not cataloged. Otherwise, this step is optional.

5. Click Next.

6. Specify where you want to copy the data set or members to:

   **Data set name**

   Identify the name of the data set that you want the information copied to. This can be a data set that exists on the server or the name of a new data set.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

   **Volume serial**

   Specifies the volume serial. This step is mandatory if the data set is not cataloged. Otherwise, this step is optional.

7. Specify the disposition of the copy by selecting SHR, OLD, or NEW.
   - Select SHR if you want the copied data to replace the contents of an existing data set. This option allows concurrent access to the data sets while the copy is in progress.
   - Select OLD if you want the copied data to replace the contents of an existing data set. This option restricts access to the data sets while the copy is in progress.
   - Click the New button to create a new data set. If you select this option, you must take the following steps:
     - Specify the type of data set to create in the New Allocation group.
     - Click the Allocate button to open the Allocate wizard.
     - Complete the fields in the Allocate wizard and click Finish.

     **Note:** For detailed information about the Allocate wizard, see one of the following topics:

     Allocate a New PDS (see page 62)

     Allocate a New Sequential Data Set (see page 65)

     Allocate a New VSAM Data Set (see page 67)

8. (Optional) Select the Replace Like-Named Members replacement option.

   When a copied member exists in both the To and From data sets, members in the From data set replace members with the same name in the To data set. Select this check box to enable this replacement option. If this check box is not selected, members with the same name are not copied.

9. Click Next.

10. (Optional) Do one of the following to specify the layout:

    - Select from the drop-down list a layout displayed in your layout view.
    - Specify the layout data set and member name.

11. (Optional) Specify selection criteria. Do one of the following:

    - Type selection conditions into the selection criteria text box.

      **Note:** For more information on valid selection conditions, see Selection Criteria Specifications (see page 107).

    - Click Layout to build selection conditions based on the contents of the specified layout.

      **Note:** For more information on modifying selection criteria, see Modify Layout Selection Conditions (see page 104).

      **Note:** If you specify selection criteria, you can click Validate to verify that the selection criteria listed are legitimate.

    - Click Import to import selection criteria from an existing selection criteria member.

      **Note:** For more information on importing selection criteria, see Import Selection Criteria.

12. Click Next.

    A summary page shows the options that you have selected.

13. Click Finish.

    The Copy Wizard report view opens and displays information about the copy operation.

    **Note:** Select Copy Utility from the CA File Master Plus menu if the data set you want to copy is not in the Directory List view.

**More information:**

Copy Utility (see page 51)
Copy a Sequential File (see page 56)
Copy a VSAM File (see page 59)
Select a Data Set (see page 45)
Select a Member (see page 83)

## Copy a Sequential File

The copy utility lets you copy a data set into another existing data set or into a newly allocated data set.

**Follow these steps:**

1. Open the Directory List view.
2. Select the data set that you want to copy.
3. Right-click and select Utilities, Copy Sequential.

   The Copy Sequential Utility wizard opens. The Data set name field displays the name of the data set you selected.

   **Note:** You can copy data sets not listed in your Directory List view by selecting Utilities, Copy from the CA File Master Plus menu. If you select this option, there is an additional page at the beginning of the wizard in which you identify the data set that you want to copy.
4. Specify the volume serial of the data set that you want to copy. This step is mandatory if the data set is not cataloged. Otherwise, this step is optional
5. Specify where you want to copy the data set or members to:

   **Data set name**

   Select the data set where you want the copied records to be put.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

   **(Optional) Member name**

   Specify the member to which you want to copy the sequential file data, if you are copying the sequential data set to a PDS.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).

   **Volume serial**

   Specifies the volume serial. This step is mandatory if the data set is not cataloged. Otherwise, this step is optional.
6. Specify the disposition of the copy by selecting SHR, OLD, MOD, or by creating a new data set.
   - Select SHR if you want the copied data set to replace the contents of an existing data set. This option allows concurrent access to the data sets while the copy is in progress.
   - Select OLD if you want the copied data set to replace the contents of an existing data set. This option restricts access to the data sets while the copy is in progress.

- Select MOD if you want the copied data set added to the end of an existing data set.
- Click the New button to create a new data set. If you select this option, you must take the following steps:
  - Specify the type of data set to create in the New Allocation group.
  - Click the Allocate button to open the Allocate wizard.
  - Complete the fields in the Allocate wizard and click Finish.

  **Note:** For detailed information about the Allocate wizard, see one of the following topics:

  Allocate a New PDS (see page 62)

  Allocate a New Sequential Data Set (see page 65)

  Allocate a New VSAM Data Set (see page 67)

7. Click Next.
8. (Optional) Do one of the following to specify the layout:
   - Select from the drop-down list a layout displayed in your layout view.
   - Specify the layout data set and member name.
9. (Optional) Specify selection criteria. Do one of the following:
   - Type selection conditions into the selection criteria text box.

     **Note:** For more information on valid selection conditions, see Selection Criteria Specifications (see page 107).
   - Click Layout to build selection conditions based on the contents of the specified layout.

     **Note:** For more information on modifying selection criteria, see Modify Layout Selection Conditions (see page 104).

     **Note:** If you specify selection criteria, you can click Validate to verify that the selection criteria listed are legitimate.
   - Click Import to import selection criteria from an existing selection criteria member.

     **Note:** For more information on importing selection criteria, see Import Selection Criteria.
10. Click Next.

    A summary page shows the options that you have selected.
11. Click Finish.

    The Copy Wizard report view opens and displays information about the copy operation.

**Note:** Select Copy Utility from the CA File Master Plus menu if the data set you want to copy is not in the Directory List view.

**More information:**

Copy Utility (see page 51)
Copy a PDS File (see page 52)
Copy a VSAM File (see page 59)
Select a Data Set (see page 45)
Select a Member (see page 83)

## Copy a VSAM File

The copy utility lets you copy a data set into another existing data set or into a newly allocated data set.

**Follow these steps:**

1. Open the Directory List view.
2. Select from the Directory List view the data set you want to copy.
3. Right-click and select Utilities, Copy VSAM.

   The Copy VSAM Utility wizard opens. The Data set name field displays the name of the data set you selected.

   **Note:** You can copy data sets not listed in your Directory List view by selecting Utilities, Copy from the CA File Master Plus menu. If you select this option, there is an additional page at the beginning of the wizard in which you identify the data set that you want to copy.

4. Click Next.
5. Specify where you want to copy the data set or members to:

   **(Optional) Member name**

   If you are copying the VSAM file to a PDS, you can select the specific member to which you want to copy the sequential file data.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).

   **Volume serial**

   Specifies the volume serial. This step is mandatory if the data set is not cataloged. Otherwise, this step is optional.

6. Specify the disposition of the copy by selecting either SHR or OLD, or creating a new data set:

   ■ Select SHR if you want the copied data set to replace the contents of an existing data set. This option allows concurrent access to the data sets while the copy is in progress.

   ■ Select OLD if you want the copied data set to replace the contents of an existing data set. This option restricts access to the data sets while the copy is in progress.

   ■ Click the New button to create a new data set. If you select this option, you must take the following steps:

     – Specify the type of data set to create in the New Allocation group.

     – Click the Allocate button to open the Allocate wizard.

     – Complete the fields in the Allocate wizard and click Finish.

**Note:** For detailed information about the Allocate wizard, see one of the following topics:

Allocate a New PDS (see page 62)

Allocate a New Sequential Data Set (see page 65)

Allocate a New VSAM Data Set (see page 67)

7. (Optional) Select the Replace duplicate keys in KSDS replacement option.

   When a key exists in both the KSDS VSAM To and From data sets, keys in the From data set replace duplicate keys in the To data set. Select this check box to enable this replacement option. If this check box is not selected, encountering duplicate keys causes an abend.

8. Click Next.

9. (Optional) Do one of the following to specify the layout:

   - Select from the drop-down list a layout displayed in your layout view.
   - Specify the layout data set and member name.

10. (Optional) Specify selection criteria. Do one of the following:

    - Type selection conditions into the selection criteria text box.

      **Note:** For more information on valid selection conditions, see Selection Criteria Specifications (see page 107).

    - Click Layout to build selection conditions based on the contents of the specified layout.

      **Note:** For more information on modifying selection criteria, see Modify Layout Selection Conditions (see page 104).

      **Note:** If you specify selection criteria, you can click Validate to verify that the selection criteria listed are legitimate.

    - Click Import to import selection criteria from an existing selection criteria member.

      **Note:** For more information on importing selection criteria, see Import Selection Criteria.

11. Click Next.

    A summary page shows the options that you have selected.

12. Click Finish

    The Copy Wizard report view opens and displays information about the copy operation.

**More information:**

Copy Utility (see page 51)
Copy a PDS File (see page 52)
Copy a Sequential File (see page 56)
Select a Data Set (see page 45)
Select a Member (see page 83)

# Allocate

You can use CA File Master Plus to allocate PDS, Sequential, and VSAM data sets. This utility is available through the copy wizards. Alternatively, you can access the Allocate Data Set wizard by selecting a server and the selecting Allocate Data Set from the CA File Master Plus, Manage Data Sets menu. The following procedure describes how to access the file-specific Allocate Data Set wizard using the CA File Master Plus menu.

**Follow these steps:**

1. Select the server to where you want the newly allocated data set to reside.
2. Select Allocate from the CA File Master Plus, Manage Data Sets menu.

   The Allocate Data Set wizard opens.
3. Specify the name of the data set that you want to create.
4. Specify the data set type. Select one of the following file types:
   - PDS
   - SEQ
   - VSAM
5. Click Next

   The subsequent pages of the Allocate Data Set wizard for the specified data set file type display. Complete the allocation wizard using the following instructions for the specified file type:

   Allocate a New PDS (see page 62)

   Allocate a New Sequential Data Set (see page 65)

   Allocate a New VSAM Data Set (see page 67)

   The data set is allocated according to your specifications.

**More information:**

Data Sets (see page 45)
Allocate a New PDS (see page 62)
Allocate a New Sequential Data Set (see page 65)
Allocate a New VSAM Data Set (see page 67)
Add Multiple Volumes (see page 69)
Select a Data Set (see page 45)
Add a Data Set (see page 47)
Remove a Data Set (see page 48)
Rename a Data Set (see page 49)
Rename a VSAM Data Set (see page 50)
Delete a Data Set (see page 51)
Copy Utility (see page 51)
Compare Utility (see page 69)
Print Utility (see page 78)
Select a Data Set (see page 45)
Select a Member (see page 83)

## Allocate a New PDS

Use the Allocate New Partitioned Data Set wizard to create a new PDS.

**Follow these steps:**

1. Select Add to Directory List view if you want the new data set displayed in your Directory List view.
2. Complete the Model Data Set Name field if you want your new PDS to copy the properties of another PDS.
   a. Enter the name of a data set that exists on the server.
   b. Click Confirm.

3. Complete one of the following sections:

   - SMS Data Set—Complete the fields in this section to define the location and attributes of your new data set.

     **Management Class**

     Specifies the name of the SMS management class that controls data set backup, retention, and migration services

     **Storage Class**

     Specifies the name of the SMS storage class associated with the data set that controls the volume where the data set is stored

     **Data Class**

     Specifies the name of the SMS data class that defines the allocation defaults for the data set

   - Use Non-SMS—Select this option and complete one of the following fields for the data set you are allocating.

     **Volume Serial**

     Specifies the volume serial.

     **Generic Unit Name**

     Specifies the generic unit name for the direct-access volume in which you want the data set stored.

4. Click Next.

5. Specify the data set type. Select one of the following options:

   **PDS**

   Partitioned Data Set

   **PDSE**

   Partitioned Data Set Extended

6. Specify the space allocation unit.

7. Specify the allocation parameters:

   **Primary Allocation**

   Specifies the amount of space allocated in each primary allocation that contains the specified number of tracks, cylinders, or blocks

   **Secondary Allocation**

   Specifies the amount of space allocated in each secondary allocation that contains the specified number of tracks, cylinders, or blocks

   **Directory Blocks**

   Specifies the number of 256-byte directory blocks to allocate for the data set

   **Note:** If you are allocating a PDS, this parameter is mandatory. If you are allocating a PDSE, it is optional.

   **Record Format**

   Specifies the format of the record.

   **Record Length**

   Specifies the logical record length allocated for records stored in the data set

   **Block Size**

   Specifies the size allocated for variable blocked or fixed blocked files

   **Note:** Select Use optimal value to allow the system to calculate the optimum block size.

8. Click Finish.

**More information:**

Allocate (see page 61)
Allocate a New Sequential Data Set (see page 65)
Allocate a New VSAM Data Set (see page 67)
Add Multiple Volumes (see page 69)
Select a Data Set (see page 45)
Add Multiple Volumes (see page 69)
Select a Member (see page 83)

## Allocate a New Sequential Data Set

Use the Allocate New Sequential Data Set wizard to create a new sequential data set.

**Follow these steps:**

1. Select Add to Directory List view if you want the new data set displayed in your Directory List view.
2. Complete the Model Data Set Name field if you want your new data set to copy the properties of another data set.
   a. Enter the name of a data set that exists on the server.
   b. Click Confirm.
3. Complete one of the following sections:
   - SMS Data Set—Complete the fields in this section to define the location and attributes of your new data set.

     **Management Class**

     Specifies the name of the SMS management class that controls data set backup, retention, and migration services

     **Storage Class**

     Specifies the name of the SMS storage class associated with the data set that controls the volume where the data set is stored

     **Data Class**

     Specifies the name of the SMS data class that defines the allocation defaults for the data set
   - Use Non-SMS—Select this option and complete one of the following fields for the data set you are allocating.

     **Volume Serial**

     Specifies the volume serial.

     **Generic Unit Name**

     Specifies the generic unit name for the direct-access volume in which you want the data set stored.
4. Click Next.
5. Specify the data set type. Select one of the following options:

   **SEQ**

   Sequential file

   **LARGE**

   Large format sequential data set

6. Specify the space allocation unit.

7. Specify the allocation parameters:

   **Primary Allocation**

   Specifies the amount of space allocated in each primary allocation that contains the specified number of tracks, cylinders, or blocks

   **Secondary Allocation**

   Specifies the amount of space allocated in each secondary allocation that contains the specified number of tracks, cylinders, or blocks

   **Record Format**

   Specifies the format of the record.

   **Record Length**

   Specifies the logical record length allocated for records stored in the data set

   **Block Size**

   Specifies the size allocated for variable blocked or fixed blocked files

   **Note:** Select Use optimal value to allow the system to calculate the optimum block size.

   **Multiple Volumes**

   Specifies that the new data set contains multiple volumes.

   **Note:** If you select Multiple Volumes, click Edit to open the Add Multiple Volumes dialog. For more information on the Add Multiple Volumes dialog, see Add Multiple Volumes (see page 69).

8. Click Finish.

## Allocate a New VSAM Data Set

Use the Allocate New VSAM Data Set wizard to create a new VSAM data set.

**Follow these steps:**

1. Select Add to Directory List view if you want the new data set displayed in your Directory List view.
2. Complete the Model Data Set Name field if you want your new data set to copy the properties of another data set.
    a. Enter the name of a data set that exists on the server.
    b. Click Confirm.
3. Complete the fields in the Component DSNs section to define the data set name, location, and file type.
4. Select and complete one of the following sections:
    - Volume—Complete the Data and Index fields to specify the volume that contains the data component of the VSAM that you are defining.
    - SMS Class—Complete the Storage Class, Data Class, and Management Class fields to define the location and attributes of your new data set.
5. Select options for additional functionalities in the Options section.

    **Note:** If you select Multiple Volumes, click Edit to open the Add Multiple Volumes dialog. For more information on the Add Multiple Volumes dialog, see Add Multiple Volumes (see page 69).
6. Click Next.
7. Define the allocation parameters. Specify the following parameters:

    **CI Size**

    Control size for the data and index components of the file

    **Unit**

    Space allocation unit. Select one of the following options:

    **TRKS**

    Tracks

    **CYL**

    Cylinders

    **REC**

    Records

    **K**

    Kilobytes

**M**

Megabytes

**Primary**

Primary space allocation

**Secondary**

Secondary space allocation

**Key position**

Position of key for VSAM file

**Key length**

Key length for VSAM file

**Avg record size**

Average length of records

**Max record size**

Length of largest record allowed

**Owner ID**

ID of owner associated with file

**Percent free CI and CA**

Amount of empty space allocated in each control interval when file is initially loaded

**Share options crossregion**

Specifies how the file can be shared among regions using Global Resource Serialization. Select one of the following options:

**1**

Unlimited read OR one read/write

**2**

Unlimited read AND one read/write

**3**

Shared fully

**4**

Shared fully and updated/refreshed immediately

**Share options crosssystem**

Specifies how the file can be shared among systems using Global Resource Serialization. Select one of the following options:

**3**

Shared fully

**4**

Shared fully and updated/refreshed immediately

**Buffer Space**

Minimum buffer space allocated when file is accessed

8. Click Finish.

**More information:**

Allocate (see page 61)
Allocate a New PDS (see page 62)
Allocate a New Sequential Data Set (see page 65)
Add Multiple Volumes (see page 69)
Select a Data Set (see page 45)
Add Multiple Volumes (see page 69)
Select a Member (see page 83)

## Add Multiple Volumes

If you select the Multiple volumes option when allocating a data set, you must click the Edit button to specify the details for the additional volumes. Complete the fields in the Multiple Volumes dialog and then click Finish.

**More information:**

Allocate (see page 61)
Allocate a New PDS (see page 62)
Allocate a New Sequential Data Set (see page 65)
Allocate a New VSAM Data Set (see page 67)

# Compare Utility

You can use CA File Master Plus to compare the contents of two data sets or two or more members in a PDS. You can also compare the contents of two programs using this utility. To access the compare utility menu option, right-click the member, data set, or program that you want to compare. If the item that you want to compare is not listed in the Directory List view, select a server and then select Compare from the CA File Master Plus, Utilities menu.

**More information:**

Data Sets (see page 45)
Compare Utility (see page 71)
Compare Program Utility (see page 74)
Select a Data Set (see page 45)
Add a Data Set (see page 47)
Remove a Data Set (see page 48)
Rename a Data Set (see page 49)
Rename a VSAM Data Set (see page 50)
Delete a Data Set (see page 51)
Copy Utility (see page 51)
Allocate (see page 61)
Print Utility (see page 78)
Select a Data Set (see page 45)
Select a Member (see page 83)

# Compare Utility

You can use CA File Master Plus to compare the contents of two data sets or two or more members in a PDS. Use this feature to perform tasks such as identifying or verifying changes made to a data set. Access this utility through the right-click menu, or you can compare data sets and members not listed in your Directory List view by selecting a server and then selecting Compare from the CA File Master Plus, Utilities menu.

**Follow these steps:**

1. Open the Directory List view.
2. Select from the Directory List view one of the data sets or members that you want to compare.
3. Right-click the data set or member and select Utilities, Compare.

   The Compare Data Set Utility wizard opens.
4. Complete the following fields on the Old Data Set page, or verify that the prefilled information is correct:

   **Data set name**

   Specifies the name of the first data set that you want to compare.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

   **Member name**

   Specifies the name of the member that you want to compare. Perform a wildcard search to select more than one member. Enter an asterisk (*) to compare all members.

   **Note:** This field is only active when comparing members in a PDS.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).
5. Click Next.
6. Specify the name of the data set and member as on the New Data Set page. This identifies data set and member that you want to compare to the Old data set. If you are comparing members in a PDS, the Old and New data sets must both contain the members you want to compare.
7. Click Next.
8. Select the Output Format options that you want to apply.

   **Print**

   Specifies the display format of the compare report. Select one of the following options:

   **Character**

Displays records in character format, up to 100 characters

**Hexadecimal**

Displays records in three-line hexadecimal format

**Single record**

Displays field names and values for each record.

**Note:** If you select this option, you must specify a record layout.

**Record display**

Specifies which records to display in the compare report. Select one of the following options:

**All**

Displays all records

**Mismatched**

Displays only mismatched records

**Summary**

Displays only a summary of the data set compare

**Field display**

Specifies which fields to display in the compare report. Select one of the following options:

**All**

Displays all fields

**Mismatched**

Displays only fields that have different content

9. (Optional) Specify a layout for the old and new data sets. Do one of the following in the Old data set layout and the New data set layout groups:
   - Select from the drop-down list a layout displayed in your Layout view.
   - Specify the layout data set and member name.

   **Note:** Select Use old data set layout to use the specified layout for both the old and new data sets.

   **Note:** You must specify a layout for a single record report format. Otherwise, this step is optional.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).
10. (Optional) Specify selection criteria. Do one of the following:
    - Type selection conditions into the selection criteria text box.

**Note:** For more information on valid selection conditions, see Selection Criteria Specifications (see page 107).

- Click Layout to build selection conditions based on the contents of the specified layout.

  **Note:** For more information on modifying selection criteria, see Modify Layout Selection Conditions (see page 104).

  **Note:** If you specify selection criteria, you can click Validate to verify that the selection criteria listed are legitimate.

- Click Import to import selection criteria from an existing selection criteria member.

  **Note:** For more information on importing selection criteria, see Import Selection Criteria.

  **Note:** This option is only available if you specified a layout with the single record print mode.

11. Click Next.
12. Specify the position of the data and length of the compare, if you want to compare only a portion of a data set or member.
13. Click Next.

    A summary page shows the options that you have selected.
14. Click Finish.

    The summary results of your compare are displayed in the Report view.

    You can display the detailed compare report by clicking the  icon in the top right corner of the compare report summary. When you close the compare report summary, the detailed compare report closes and is deleted.

**More information:**

Compare Utility (see page 69)
Compare Program Utility (see page 74)
Select a Data Set (see page 45)
Select a Member (see page 83)

## Compare Program Utility

You can use CA File Master Plus to compare the contents of two programs or two program libraries. Use this feature to complete tasks such as identifying any changes made to a program. Access this utility through the right-click menu, or you can compare programs not listed in your Directory List view by selecting a server and then selecting Compare from the CA File Master Plus, Utilities menu.

**Follow these steps:**

1. Open the Directory List view.
2. Select from the Directory List view one of the programs that you want to compare.
3. Right-click the program and select Utilities, Compare.

   The Compare Program Utility wizard opens.
4. Complete the following fields on the Old Data Set page, or verify that the prefilled information is correct:

   **Data set name**

   Specifies the name of the data set that contains the program that you want to compare.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

   **Member name**

   Specifies the name of the program that you want to compare. Perform a wildcard search to select more than one program. Enter an asterisk (*) to compare all members.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).
5. Click Next.
6. Specify the name of the data set and member as on the New Data Set page. This identifies program that you want to compare to the Old program. If you are comparing members in a PDS, the Old and New data sets must both contain the members you want to compare.
7. Click Next.
8. Specify the output format:

   **Print**

   Specifies the display format of the compare report. Select one of the following options:

   **Character**

   Displays records in character format, up to 100 characters

   **Instruction**

Displays records in machine instruction format

**Record display**

Specifies which records to display in the compare report. Select one of the following options:

**All**

Displays all records

**Mismatched**

Displays only mismatched records

**Summary**

Displays only a summary of the data set compare

**Field display**

Specifies which fields to display in the compare report. Select one of the following options:

**All**

Displays all fields

**Mismatched**

Displays only fields that have different content

**Max mismatches**

Specifies the maximum number of mismatched records to display

**Output page size**

Specifies the maximum number of lines per page for the SYSLIST output file

9. Specify the options that you want to include or exclude in the program compare.

**Properties**

**Include**

Specifies that the following options are included in the compare

**Exclude**

Specifies that the following options are excluded in the compare

**Attributes**

The program link attributes: reentrant, reusable, refreshable, authorization, code, amode, rmode, and SSI

**Entry point**

The program entry point location

**Link date**

The date and time the program was linked

**Total size**

The size of the program

**CSECT name**

The name of the CSECTs

**CSECT date**

The date carried in Binder IDR-B records

**CSECT size**

The size of the CSECTs

**Translator**

Identifies compiler information

**Content**

The module text

**IDRZAP**

IDRZAP information carried in Binder B_IDRZ records

**IDRUSER**

Information carried in Binder B_IDRU records added as a result of the Binder IDENTIFY statement or programmatically

**ESD**

External Symbol Information carried in Binder B_ESD records; for example, external references

10. Specify the additional CSECT options for the compare.

    **CSECT compare**

    Controls how CSECTs are compared. Specify one of the following options:

    **By name**

    Specifies that CSECTs with identical names are compared

    **By order**

    Specifies that CSECTs are compared in the order in which they appear in the program

    **(Optional) Include**

    CSECTs that are included from the program comparison

    **(Optional) Exclude**

    CSECTs that are excluded from the program comparison

**Note:** You can use wildcards when specifying CSECTs to include or exclude. By default, all CSECTs are compared. For more information, including syntax, see the *Batch Reference Eclipse Guide*.

11. Click Next.

    A summary page shows the options that you have selected.

12. Click Finish.

    The summary results of your compare are displayed in the Report view.

    You can display the detailed compare report by clicking the icon in the top right corner of the compare report summary. When you close the compare report summary, the detailed compare report closes and is deleted.

**More information:**

Compare Utility (see page 69)
Compare Utility (see page 71)
Select a Data Set (see page 45)
Select a Member (see page 83)

# Print Utility

You can use CA File Master Plus to print the contents of a data set or PDS member. You can limit the contents of what you print by specifying a starting position, setting a limit on the number of records to print, and using selection criteria. Specify a layout to format the print output. You can print a data set or member that is not listed in your Directory List view by selecting a server and then selecting Print from the CA File Master Plus, Utilities menu.

**Note:** You can only print to a device configured for the mainframe environment.

**Follow these steps:**

1. Open the Directory List view.
2. Select from the Directory List view the data set or member that you want to print.
3. Right-click the data set or member that you want to print and select Utilities, Print.

   The Print wizard opens. The server, data set name and member name (if applicable) of the data set you are printing are displayed at the top of the wizard.
4. Complete the following fields on the Print page:

   **Member name**

   Specifies the name of the member you want to print.

   **Note:** The field is active if you have selected a PDS. If you selected a member in a PDS in Step 3, the Member name field displays that member name, but you can change it using this field. Selected members are displayed in the Members table and you can change your member selections using the check boxes in that table.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).

   **Volume serial**

   Enter the volume serial. This step is mandatory if the data set is not cataloged. Otherwise, this step is optional.

   **(Optional) Starting Key**

   Specify the location at which to begin printing. Use one of the following formats, depending on the file type of the data set you are printing:

   **Sequential file**

   Numeric value for starting record number

   **KSDS VSAM**

   C'xxx' or X'hhhh' format for key of start position

   **ESDS VSAM**

   X'hhhh' format for RBA of start position

**RRDS VSAM**

Numeric Relative Record Number of start position

**(Optional) Print Limit**

Specify the maximum number of records that you want to be printed.

5. Click Next.
6. Specify the following options on the Options tab:

**Print mode**

**Character**

Displays records in character format, up to 100 characters

**Hexadecimal**

Displays records in three-line hexadecimal format

**List**

Displays records in character format without scale and record numbers

**Single record**

Displays field names and values for each record

**Note:** If you select this option, you must specify a record layout.

**Layout**

Specifies a layout. If you selected Single record for the print mode you must specify a layout. Otherwise, this field is optional. Do one of the following:

- Select from the drop-down list a layout displayed in your Layout view.
- Specify the layout data set and member name.

**Selection criteria**

- Type selection conditions into the selection criteria text box.

  **Note:** For more information on valid selection conditions, see Selection Criteria Specifications (see page 107).

- Click Layout to build selection conditions based on the contents of the specified layout.

  **Note:** For more information on modifying selection criteria, see Modify Layout Selection Conditions (see page 104).

  **Note:** If you specify selection criteria, you can click Validate to verify that the selection criteria listed are legitimate.

- Click Import to import selection criteria from an existing selection criteria member.

  **Note:** For more information on importing selection criteria, see Import Selection Criteria.

7. Click Next.
8. Specify the following options on the Print Output Control page:

   **Sysout class**

   Specifies the position of the sysout class to which you want the printer routed.

   **Number of copies**

   Specifies the number of copies that you want printed.

   **(Optional) Define print destination**

   Specifies the printer you want to use. Select one of the following options:

   **Destination printer**

   Specifies the printer ID of the local or remote printer to which you want the print job routed.

   **External JES node**

   Specifies the external JES node name to which you want the print job routed.

   **Sysout writer name**

   Specifies the member name of the sysout writer program to which you want the print job routed.

   **Print data set name**

   Specifies the name of the data set to which you want to print.

   **Print member name**

   Specifies the name of the member to which you want to print. Also specify the data set disposition:

   - Select SHR if you want the printed data to replace the contents of an existing data set. This option allows concurrent access to the data set while the print is in progress.
   - Select MOD if you want the printed data added to the end of an existing data set.
   - Click the New button to create a new data set.

     **Note:** For detailed information about the Allocate screen, see one of the following topics in the online help:

     Allocate a New PDS (see page 62)

     Allocate a New Sequential Data Set (see page 65)

     Allocate a New VSAM Data Set (see page 67)
9. Click Next.

10. Type 1-4 lines of JCL control statements into the Job information box. If you specified job information in the Configure Mainframe Settings dialog, that information is prefilled and you can edit it if needed.

    **Note:** Each line can contain up to 73 characters.

11. Click Finish.

    The print job is submitted according to your specifications.

**More information:**

Data Sets (see page 45)
Select a Data Set (see page 45)
Add a Data Set (see page 47)
Remove a Data Set (see page 48)
Rename a Data Set (see page 49)
Rename a VSAM Data Set (see page 50)
Delete a Data Set (see page 51)
Copy Utility (see page 51)
Allocate (see page 61)
Compare Utility (see page 69)

# Chapter 5: Members

You can use CA File Master Plus to manipulate members in data sets. You can add, remove, edit, and compare members in PDS files. Perform these actions through the Directory List view after adding one or more PDS files.

This section contains the following topics:



## Select a Member

Many of the tools in CA File Master Plus require that you select, or identify, a member upon which to perform an action. To select a member, type a fully qualified member name of 1 - 8 characters. Characters can be alphanumeric (A to Z, 0 - 9) and national (@,#,$). The first character must be a letter or a national character. You can use wildcards and selection criteria to select a member.

**Note:** The application supports the standard IBM wildcard characters *, **, and %.

**To select a member using a wildcard, follow these steps:**

1. Type a wildcarded member name and click Select.

   The Select Member dialog opens. The Select member table populates with members that meet the wildcard conditions.

2. Select the check box next to the member you want to add to the view. Select more than one check box to add multiple members.

3. Click OK.

**To select a member using selection criteria, follow these steps:**

1. Leave the Member name field blank or type a wildcarded member name and click Filter.

   The Select Member Options dialog opens.

2. (Optional) Do one of the following to specify the layout:
   - Select from the drop-down list a layout displayed in your layout view.
   - Specify the layout data set and member name.
3. Specify selection criteria. Do one of the following:
   - Type selection conditions into the selection criteria text box.

     **Note:** For more information on valid selection conditions, see Selection Criteria Specifications (see page 107).
   - Click Layout to build selection conditions based on the contents of the specified layout.

     **Note:** For more information on modifying selection criteria, see Modify Layout Selection Conditions (see page 104).

     **Note:** If you specify selection criteria, you can click Validate to verify that the selection criteria listed are legitimate.
   - Click Import to import selection criteria from an existing selection criteria member.

     **Note:** For more information on importing selection criteria, see Import Selection Criteria.
4. Click OK.

   The Select Member Options dialog closes and the Select member table populates with members that meet the specified selection criteria.
5. Select the check box next to the member you want to add to the view. Select more than one check box to add multiple members.
6. Click OK.

**More information:**

Members (see page 83)
Add a Member (see page 84)
Remove a Member (see page 85)
Rename a Member (see page 86)
Delete a Member (see page 87)
Open a Data Set or Member (see page 88)
Compare Utility (see page 97)
Select a Data Set (see page 45)

# Add a Member

You can add members from a PDS data set to your Directory List view using CA File Master Plus. Use this feature to manage the content of your Directory List view.

**Follow these steps:**

1. Open the Directory List view.
2. Select the PDS data set you want to add a member to.
3. Right-click and select Add Member.

   The Select Member dialog opens.
4. Select the members that you want to add.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).
5. Click Finish.

   The member is added to the PDS, and the Directory List view refreshes to display the members added to the data set. Members are listed in alphabetical order under the data set in which they reside.

**More information:**

Members (see page 83)
Select a Member (see page 83)
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Compare Utility (see page 97)
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Select a Member (see page 83)

# Remove a Member

You can remove members from data sets in your Directory List view using CA File Master Plus. Use this feature to manage the content of your Directory List view. Removing members updates the Directory List view only. This action does not modify the contents of the data set. To delete a member from the mainframe, use the Delete function. For more information, see Delete a Member (see page 87).

**Follow these steps:**

1. Open the Directory List view.
2. Right-click the member that you want to remove from the Directory List view and select Remove Member From List.

   **Note:** You can use Ctrl-click and Shift-click to select multiple members to remove.

   The Confirm Remove dialog opens.
3. Click OK.

   The member is removed from the data set. The Directory List view refreshes to show the updated list of available data sets and members.

**More information:**

Members (see page 83)
Select a Member (see page 83)
Add a Member (see page 84)
Rename a Member (see page 86)
Delete a Member (see page 87)
Open a Data Set or Member (see page 88)
Compare Utility (see page 97)

# Rename a Member

You can rename members in a PDS data set in your Directory List view using CA File Master Plus.

**Follow these steps:**

1. Open the Directory List view.
2. Right-click the member that you want to rename and select Mainframe Library Utilities, Rename Member.

   The Rename Member dialog displays.
3. Type the new name into the New name field.
4. Click OK.

   The member is renamed on the mainframe, and the Directory List view updates to reflect the new name.

**More information:**

Members (see page 83)
Select a Member (see page 83)
Add a Member (see page 84)
Remove a Member (see page 85)
Delete a Member (see page 87)
Open a Data Set or Member (see page 88)
Compare Utility (see page 97)

# Delete a Member

You can delete a member from a data set on the mainframe using the Eclipse UI. The following procedure deletes a member from the mainframe and removes it from your Directory List view.

**Follow these steps:**

1. Open the Directory List view.
2. Right-click the member that you want to delete and select Mainframe Library Utilities, Delete Member.

   **Note:** You can use Ctrl+click or Shift+click to delete multiple members.

   The Confirm Delete dialog displays.

   **Note:** You can configure the application so that the confirm dialog does not display. Set this option in the Configure Mainframe Settings dialog. For more information, see Configure Mainframe Settings (see page 36).
3. Click OK.

   The member is deleted from the mainframe and removed from the Directory List view. The Directory List view refreshes to show the list of available members.

**More information:**

Members (see page 83)
Select a Member (see page 83)
Add a Member (see page 84)
Remove a Member (see page 85)
Rename a Member (see page 86)
Open a Data Set or Member (see page 88)
Compare Utility (see page 97)

# Open a Data Set or Member

You can use CA File Master Plus to view and edit VSAM data sets, sequential data sets, and members of PDS files. You can open a data set or member that is not listed in your Directory List view by selecting a server and then selecting Open from the CA File Master Plus menu.

**Follow these steps:**

1. Open the Directory List view.
2. Right-click the data set or member that you want to edit and select Open.

   The Open Data Set wizard opens.
3. Complete the following fields, or verify that the prefilled information is correct:

   **Data set name**

   Specifies the name of the data set that you want to open.

   **Member name**

   Specifies the name of the member that you want to open.

   **Note:** This field is only active when opening a PDS member.

   **Volume serial**

   Enter the volume serial only if the data set is not cataloged. Otherwise, leave this field empty.
4. Specify the Open mode. Select one of the following options:

   **Edit**

   Allows you to make changes in the editor window and save the changes

   **View**

   Allows you to make changes in the editor window but you cannot save the changes

5. (Optional) Modify the values in the Change log options. These values are prefilled with the values you specified in the Configure Mainframe Settings dialog.

   **Data set name pattern**

   Displays the name of the change log file. This field is not editable.

   **Storage**

   Set one of the following:

   **Volume serial**

   Identifies the volume on which a new change log file will be allocated.

   **Note:** Select this only when directing the change log to a specific volume.

   **Generic unit**

   Identifies the generic unit on which a new change log file will be allocated.

   **Note:** Leave this blank if you want to use the generic unit default value.

**Primary allocation**

Defines the number of cylinders to indicate the space of the primary allocation of the change log data set. The value must be greater than zero.

**Secondary allocation**

Defines the number of cylinders to indicate the space of the secondary allocation of the change log data set.

**Note:** The Change log options are activated when the Enable change log option is selected. If the Enable change log option is selected but no values are specified in the Change log options, the values specified in the mainframe settings are used. For more information, see Configure Mainframe Settings (see page 36).

6. (Optional) Select Enable change log to capture changes that are made to the data set or member in the change log data set.
7. Click Next.
8. Select one of the following Display mode options:

   **Character**

   Displays records in character format.

   **Single Record**

   Displays one record at a time with the field names on the left and the formatted values on the right.

   **Note:** If you select this option, you must specify a record layout.

   To switch to another display mode once the editor is open, right-click anywhere in the editor and select a display format from the menu. Once the file opens, you can switch between Character and Hexadecimal format by clicking on the icon at the top of the file view.
9. Specify a layout. Do one of the following.
   - Select from the drop-down list a layout displayed in your Layout view.
   - Specify the layout data set and member name.

   **Note:** If you specified the character display mode, this step is optional.
10. (Optional) Specify selection criteria. Do one of the following:
    - Type selection conditions into the selection criteria text box.

      **Note:** For more information on valid selection conditions, see Selection Criteria Specifications (see page 107).
    - Click Layout to build selection conditions based on the contents of the specified layout.

      **Note:** For more information on modifying selection criteria, see Modify Layout Selection Conditions (see page 104).

**Note:** If you specify selection criteria, you can click Validate to verify that the selection criteria listed are legitimate.

- Click Import to import selection criteria from an existing selection criteria member.

  **Note:** For more information on importing selection criteria, see Import Selection Criteria.

**Note:** The layout section is not active if you selected Character for the Display mode.

11. Click Finish.

    The data set or member opens in the editor. Data sets opened with the View option are marked as Read-only.

**More information:**

Members (see page 83)
Data Set in Use (see page 92)
Change Log (see page 93)
Select a Member (see page 83)
Add a Member (see page 84)
Remove a Member (see page 85)
Rename a Member (see page 86)
Delete a Member (see page 87)
Compare Utility (see page 97)
Select a Data Set (see page 45)
Select a Member (see page 83)

## Data Set in Use

Only one user or job can have a data set or member open in edit mode at one time, but more than one user can open a data set or member in view mode. If a user opens a data set or member in edit mode, no other user can edit or view that data set. However, if a user opens a data set or member in view mode, another user can open that data set in either edit or view mode.

If a user attempts to open in edit mode a data set or member that is already open in either view or edit mode, the Data Set in Use dialog displays. This dialog displays the following information about the job currently accessing the data set:

**Job Name**

Name of the job that has the data set open in view or edit mode

**Major Enqueue Name**

The data set resource name used by dynamic file allocation

**Enqueue Type**

The enqueue type is one of the following:

**SHR**

File can be allocated by other users

**EXCL**

File is allocated exclusively to the job

**System**

Name of the LPAR on which the resource is allocated

To exit the Data Set in Use dialog, do one of the following:

- Click Cancel.

  The action is canceled and the dialog closes.

- Click Continue

  If the data set is already opened in view mode, your request is processed and the data set opens in the editor.

  If another user already has the data set open in edit mode, a message displays informing you that you cannot edit the data set. Click OK and your action is canceled.

**More information:**

Open a Data Set or Member (see page 88)
Change Log (see page 93)

# Change Log

You have the option of enabling the change log when you open a data set or member for editing. The Open Data Set dialog displays when you have selected this option, made changes to a data set, and then close the data set. Use this dialog to set the options for the change log.

1. At the Save Resource message that displays when you close a data set that you have changed, click Yes.

   The Change Log dialog displays.

   The Log data set field displays the current data set specified for the change log.

2. Select one of the following options:

   **Print data set**

   Displays the Print Change Log wizard. For more information, see Print Change Log (see page 95).

   **Note:** If you select this option, the Delete after print option is enabled. Select this option to delete the data set after it is printed.

   **Keep data set**

   Adds the change log from the edit session to the end of the change log specified at the top of the dialog.

   **Note:** If you select this option, the Allocate new data set in next session option is enabled. Select this option to allocate a new data set at the beginning of the next session and save the change log to the new data set. The name of the new change log is determined by the pattern defined in the CAWAOPTS module. The default pattern results in the same data set name as the currently specified change log with the last number incremented by 1.

   **Delete data set**

   The change log is deleted without printing.

3. (Optional) Enter a description of the changes that you made to the data set you are closing. You can enter three lines of up to 60 characters each in this field. Each line displays as a separate line in the change log report.

4. Click OK.

   The change log is processed as specified.

   If you selected an option to print the change log, the Print Change Log wizard displays. For more information, see Print Change Log (see page 95).

**More information:**

Open a Data Set or Member (see page 88)
Print Change Log (see page 95)
Data Set in Use (see page 92)

## Print Change Log

When you select an option to print the change log from the Open Data Set dialog, the Print Change Log wizard displays.

**Note:** You can only print to a device configured for the mainframe environment.

**Follow these steps:**

1. Specify the following options:

   **Sysout class**

   Specifies the position of the sysout class to which you want the printer routed.

   **Number of copies**

   Specifies the number of copies that you want printed.

   **(Optional) Define print destination**

   Specifies the printer you want to use. Select one of the following options:

   **Destination printer**

   Specifies the printer ID of the local or remote printer to which you want the print job routed.

   **External JES node**

   Specifies the external JES node name to which you want the print job routed.

   **Sysout writer name**

   Specifies the member name of the sysout writer program to which you want the print job routed.

   **Print data set name**

   Specifies the name of the data set to which you want to print.

   **Print member name**

   Specifies the name of the member to which you want to print. Also specify the data set disposition:

   - Select SHR if you want the printed data to replace the contents of an existing data set. This option allows concurrent access to the data set while the print is in progress.
   - Select MOD if you want the printed data added to the end of an existing data set.
   - Click the New button to create a new data set.

     **Note:** For detailed information about the Allocate screen, see one of the following topics in the online help:

     Allocate a New PDS (see page 62)

Allocate a New Sequential Data Set (see page 65)

Allocate a New VSAM Data Set (see page 67)

2. Specify the output format. Specify the following options:

   **Output format**

   Specifies the format of the change log data. Select one of the following options:

   **Character**

   Displays records in character format, up to 100 characters.

   **Hexadecimal**

   Displays records in three-line hexadecimal format.

   **List**

   Displays records in character format without scale and record numbers.

   **Single record**

   Displays field names and values for each record.

   **Field display**

   Specifies which fields to print. Select one of the following options:

   **All**

   Prints all fields in the data set.

   **Mismatched**

   Prints only fields that have different content.

3. Click Next.
4. Type 1-4 lines of JCL control statements into the Job information box. If you specified job information in the Configure Mainframe Settings dialog, that information is prefilled and you can edit it if needed.

   **Note:** Each line can contain up to 73 characters.

5. Click Finish.

   The print job is submitted to the printer you have specified as the default in your mainframe settings.

**More information:**

Change Log (see page 93)

# Compare Utility

You can use CA File Master Plus to compare the contents of two data sets or two or more members in a PDS. Use this feature to perform tasks such as identifying or verifying changes made to a data set. Access this utility through the right-click menu, or you can compare data sets and members not listed in your Directory List view by selecting a server and then selecting Compare from the CA File Master Plus, Utilities menu.

**Follow these steps:**

1. Open the Directory List view.
2. Select from the Directory List view one of the data sets or members that you want to compare.
3. Right-click the data set or member and select Utilities, Compare.

   The Compare Data Set Utility wizard opens.
4. Complete the following fields on the Old Data Set page, or verify that the prefilled information is correct:

   **Data set name**

   Specifies the name of the first data set that you want to compare.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

   **Member name**

   Specifies the name of the member that you want to compare. Perform a wildcard search to select more than one member. Enter an asterisk (*) to compare all members.

   **Note:** This field is only active when comparing members in a PDS.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).
5. Click Next.
6. Specify the name of the data set and member as on the New Data Set page. This identifies data set and member that you want to compare to the Old data set. If you are comparing members in a PDS, the Old and New data sets must both contain the members you want to compare.
7. Click Next.
8. Select the Output Format options that you want to apply.

   **Print**

   Specifies the display format of the compare report. Select one of the following options:

   **Character**

Displays records in character format, up to 100 characters

**Hexadecimal**

Displays records in three-line hexadecimal format

**Single record**

Displays field names and values for each record.

**Note:** If you select this option, you must specify a record layout.

**Record display**

Specifies which records to display in the compare report. Select one of the following options:

**All**

Displays all records

**Mismatched**

Displays only mismatched records

**Summary**

Displays only a summary of the data set compare

**Field display**

Specifies which fields to display in the compare report. Select one of the following options:

**All**

Displays all fields

**Mismatched**

Displays only fields that have different content

9. (Optional) Specify a layout for the old and new data sets. Do one of the following in the Old data set layout and the New data set layout groups:

   - Select from the drop-down list a layout displayed in your Layout view.
   - Specify the layout data set and member name.

   **Note:** Select Use old data set layout to use the specified layout for both the old and new data sets.

   **Note:** You must specify a layout for a single record report format. Otherwise, this step is optional.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

10. (Optional) Specify selection criteria. Do one of the following:

    - Type selection conditions into the selection criteria text box.

**Note:** For more information on valid selection conditions, see Selection Criteria Specifications (see page 107).

- Click Layout to build selection conditions based on the contents of the specified layout.

  **Note:** For more information on modifying selection criteria, see Modify Layout Selection Conditions (see page 104).

  **Note:** If you specify selection criteria, you can click Validate to verify that the selection criteria listed are legitimate.

- Click Import to import selection criteria from an existing selection criteria member.

  **Note:** For more information on importing selection criteria, see Import Selection Criteria.

  **Note:** This option is only available if you specified a layout with the single record print mode.

11. Click Next.
12. Specify the position of the data and length of the compare, if you want to compare only a portion of a data set or member.
13. Click Next.

    A summary page shows the options that you have selected.
14. Click Finish.

    The summary results of your compare are displayed in the Report view.

    You can display the detailed compare report by clicking the icon in the top right corner of the compare report summary. When you close the compare report summary, the detailed compare report closes and is deleted.

**More information:**

Members (see page 83)
Select a Member (see page 83)
Add a Member (see page 84)
Remove a Member (see page 85)
Rename a Member (see page 86)
Delete a Member (see page 87)
Open a Data Set or Member (see page 88)
Select a Data Set (see page 45)
Select a Member (see page 83)

# Chapter 6: Selection

Selection criteria are data sets or members that contain selection conditions. Use selection criteria to restrict your view of a data set or member according to conditions specified in the selection criteria.

*Selection criteria* are collections of selection conditions that are saved in a selection criteria data set or member for future reuse.

*Selection conditions* are the individual search terms in selection criteria data sets or members that are used to identify the specific records or members you seek. A selection condition consists of a field, an operator, and a literal, or the value to which the field is compared.

You can use CA File Master Plus to manage your selection criteria data sets and members. You can add and delete the selection criteria data sets and members you want to use. When you are performing some functions in the Eclipse UI, such as compare, you can specify selection conditions that identify the members on which to perform the function. You can specify the selection conditions by entering the conditions individually or by specifying a selection criteria that you have added to the selection view.

Use the Selection view to add and manage selection data sets and members. You can add selection criteria to the Selection view after adding one or more servers to the Eclipse UI. You can also specify selection criteria that have not already been added to the Selection view from within utility wizards, such as copy and compare.

**Note:** You can view the properties of any selection data set in your Selection view. To display selection properties, right-click a selection data set and select Properties.

This section contains the following topics:

# Add Selection Criteria

You can add selection criteria to the Selection view in CA File Master Plus so you can easily access and apply them.

**Follow these steps:**

1. Open the Selection view.
2. Right-click anywhere in the Selection view and select Add Selection Criteria.

   The Add Selection Criteria dialog opens.
3. Complete the following fields:

   **Data set name**

   Specifies the name of the data set that contains the selection criteria.wa

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

   **Member**

   Specifies the name of the selection criteria member that you want to add.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).
4. Click OK.

   The selection criteria data set or member is added to the Selection view. The selection criteria are listed in alphabetical order.

**More information:**

Selection (see page 101)
Create Selection Criteria (see page 103)
Modify Layout Selection Conditions (see page 104)
Define Selection Conditions (see page 106)
Condition Specifications (see page 107)
Update Selection Criteria (see page 109)
Remove Selection Criteria (see page 110)
Select a Data Set (see page 45)
Properties (see page 147)
Select a Member (see page 83)

# Create Selection Criteria

You can create a selection criteria data set or member in the Selection view in CA File Master Plus.

**Follow these steps:**

1. Open the Selection view.
2. Right-click anywhere in the Selection view and select Create Selection Criteria.

   The Create Selection Criteria dialog opens.
3. Complete the following fields:

   **Data set name**

   Specifies the name of the selection criteria data set or the data set that contains the selection criteria member that you want to add.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

   **Member**

   Specifies the name of the selection criteria member that you want to add.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).

   **Description**

   Displays a short explanation of the layout member.
4. (Optional) Do one of the following to specify the layout:
   - Select from the drop-down list a layout displayed in your layout view.
   - Specify the layout data set and member name.
5. Specify selection criteria. Do one of the following:
   - Type selection conditions into the selection criteria text box.

     **Note:** For more information on valid selection conditions, see Selection Criteria Specifications (see page 107).
   - Click Layout to build selection conditions based on the contents of the specified layout.

     **Note:** For more information on modifying selection criteria, see Modify Layout Selection Conditions (see page 104).

     **Note:** If you specify selection criteria, you can click Validate to verify that the selection criteria listed are legitimate.
   - Click Import to import selection criteria from an existing selection criteria member.

**Note:** For more information on importing selection criteria, see Import Selection Criteria.

6. Click OK.

   The selection member is created and added to the Selection view.

**More information:**

Selection (see page 101)
Add Selection Criteria (see page 102)
Modify Layout Selection Conditions (see page 104)
Define Selection Conditions (see page 106)
Condition Specifications (see page 107)
Update Selection Criteria (see page 109)
Remove Selection Criteria (see page 110)
Select a Data Set (see page 45)
Properties (see page 147)
Select a Member (see page 83)

# Modify Layout Selection Conditions

You can use CA File Master Plus to modify the conditions contained within a layout.

**Follow these steps:**

1. Click Layout in the Selection criteria group box.

   The Layout dialog displays.

2. Modify the selection conditions to meet your needs. For each field, you can update the values in the following columns:

   **And/Or**

   Specifies whether to join multiple selection conditions. Select one of the following values: And, Or.

**Operator**

Defines the criteria. Select one of the following values: Equal, Not Equal, Greater Than, Less Than, Greater Than or Equal, Less Than or Equal, Contains.

**Note:** Not all values are available for all data formats.

**Compare Value or Field Name**

Creates the condition. Specify either a field name or one or more literal values. For example, *C'VT' C'NH' C'MA'*. Right-click in this field to see the available options.

**Note:** For more information on valid values for this field, see Define Selection Conditions (see page 106).

3. (Optional) Specify selection criteria. Do one of the following:
   - Type selection conditions into the selection criteria text box.

     **Note:** For more information on valid selection conditions, see Selection Criteria Specifications (see page 107).
   - Click Layout to build selection conditions based on the contents of the specified layout.

     **Note:** For more information on modifying selection criteria, see Modify Layout Selection Conditions (see page 104).

     **Note:** If you specify selection criteria, you can click Validate to verify that the selection criteria listed are legitimate.
   - Click Import to import selection criteria from an existing selection criteria member.
4. **Note:** For more information on importing selection criteria, see Import Selection Criteria.
5. Select the rules that you want to add to the selection criteria member.
6. Click OK.

   The Layout dialog closes, and your changes to the selection criteria are displayed.

**More information:**

Selection (see page 101)
Add Selection Criteria (see page 102)
Create Selection Criteria (see page 103)
Define Selection Conditions (see page 106)
Condition Specifications (see page 107)
Update Selection Criteria (see page 109)
Remove Selection Criteria (see page 110)
Select a Data Set (see page 45)
Properties (see page 147)
Select a Member (see page 83)

# Define Selection Conditions

A selection criteria member consists of statements that determine if the value in a given field meets a Define Selection Conditions value you specify. Build selection conditions based on a field in a custom layout member. Compare the value in that field to another field in the layout member or to a literal value that you define.

**To identify another field in the layout as the compare field in your selection condition, follow these steps:**

1. Select the row in the table that contains the field name on which you want to build the selection criteria.
2. Right-click in the Compare Value or Field Name cell and select Field Name

   The Select Field Name dialog displays.
3. Select the field name that you want to set as the compare field in your selection criteria.
4. Click OK.

   The Select Field Name dialog closes.

**To define literal values as the compare value in your selection condition, follow these steps:**

1. Select the row in the table that contains the field name on which you want to build the selection criteria.
2. Right-click in the Compare Value or Field Name cell and select one of the following data type indicators:
   - C—Character
   - H—Hex
   - T—Text

   The option you selected displays in the Compare Value or Field Name cell, followed by two single quotation marks.

   **Note:** Not all data type indicators are available for every field type.
3. Put your cursor between the two single quote marks.
4. Type between the single quote marks the literal value to which you want the field name compared.

   **Note:** For more information about selection criteria literal values, see Condition Specifications (see page 107).

   Repeat steps 2 to 4 until you have specified all the literal values for the selection condition for this field name.

**More information:**

Selection (see page 101)
Add Selection Criteria (see page 102)
Create Selection Criteria (see page 103)
Modify Layout Selection Conditions (see page 104)
Condition Specifications (see page 107)
Update Selection Criteria (see page 109)
Remove Selection Criteria (see page 110)

# Condition Specifications

The following table shows some sample condition specifications.

| Condition Specification | Description |
|---|---|
| MEMBER | Specifies that subsequent selection condition apply to PDS member selection only. This parameter and subsequent selection criteria are ignored if specified for non-PDS data sets. |
| RECORD | Specifies that subsequent selection condition apply to record selection only. |
| 101 = C'NY' | Position 101 for a length of 2 equals 'NY' |
| 1(3) = C'001' | Position 1 for a length of 3 equals '001' |
| C'TEXAS' | Character string 'TEXAS' anywhere in the record |
| 'TEXAS' | Character string 'TEXAS' anywhere in the record |
| 1(3) = C'001' & 101 = C'NY' | Compound condition |
| 10(4) EQP | Pos 10 for a length of 4 is a valid packed value |
| 80 = C'NY' C'NJ' C'MA' | Position 80 equals one of the three values |
| 80 = C'NY,NJ,MA' | Position 80 equals one of the same three values |
| 100(2) = P'0,1,999' | Two-byte packed field equals one of three values |

| | |
|---|---|
| 100 = C"100,00" | Position 100 for a length of 7 equals '100,000'<br>**Note:** Quotes are required when the search string contains a comma |
| 82(2) > 84 | Compare position 82 to position 84 for length of 2 |
| 101(20) CO C'NEW YORK' | Looks for the character string in columns 101-120 |
| INLIM(5000) | Stop reading/selecting after reading 5000 records. |
| SELLIM(1000) | Only select 1000 records based on selection criteria |
| STARTKEY='56789' | Select keyed VSAM records starting with key '56789' |
| STARTREC=1001 | Select records starting with record number 1001 |
| STARTRBA=X'1FD8' | Select records starting with the record with RBA x'1FD8' |

**More information:**

Selection (see page 101)
Add Selection Criteria (see page 102)
Create Selection Criteria (see page 103)
Modify Layout Selection Conditions (see page 104)
Define Selection Conditions (see page 106)
Update Selection Criteria (see page 109)
Remove Selection Criteria (see page 110)

# Update Selection Criteria

You can update a selection criteria member that is displayed in the Selection view in CA File Master Plus.

**Follow these steps:**

1. Open the Selection view.
2. Right-click on the member you want to update and select Update.

   The Update dialog opens.
3. Select the server where the selection criteria member resides.
4. Click Next.
5. Update the following fields:

   **Data set name**

   Specifies the name of the data set that contains the selection criteria member.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

   **Member**

   Specifies the name of the selection criteria member.

   **Description**

   Displays a short explanation of the selection criteria member.
6. (Optional) Do one of the following to specify the layout:
   - Select from the drop-down list a layout displayed in your layout view.
   - Specify the layout data set and member name.
7. Specify selection criteria. Do one of the following:
   - Type selection conditions into the selection criteria text box.

     **Note:** For more information on valid selection conditions, see Selection Criteria Specifications (see page 107).
   - Click Layout to build selection conditions based on the contents of the specified layout.

     **Note:** For more information on modifying selection criteria, see Modify Layout Selection Conditions (see page 104).

     **Note:** If you specify selection criteria, you can click Validate to verify that the selection criteria listed are legitimate.
   - Click Import to import selection criteria from an existing selection criteria member.

**Note:** For more information on importing selection criteria, see Import Selection Criteria.

8. Click OK.

   The member is updated and the Selection view refreshes.

**More information:**

Selection (see page 101)
Add Selection Criteria (see page 102)
Create Selection Criteria (see page 103)
Modify Layout Selection Conditions (see page 104)
Define Selection Conditions (see page 106)
Condition Specifications (see page 107)
Remove Selection Criteria (see page 110)
Select a Data Set (see page 45)
Properties (see page 147)
Select a Member (see page 83)

# Remove Selection Criteria

You can remove selection criteria you no longer want on your Selection view.

**Follow these steps:**

1. Open the Selection view.
2. Do one of the following:
   - Right-click the data set that you want to delete and select Remove Data Set From List.
   - Right-click the member that you want to delete and select Remove Member From List.

   The Confirm Remove dialog opens.

   **Note:** You can use Ctrl-click or Shift-click to remove multiple layouts.
3. Click OK.

   The member, or the data set and its associated members, is removed. The Selection view refreshes to show the list of available data sets and members.

**More informtaion:**

Selection (see page 101)
Add Selection Criteria (see page 102)
Create Selection Criteria (see page 103)
Modify Layout Selection Conditions (see page 104)
Define Selection Conditions (see page 106)
Condition Specifications (see page 107)
Update Selection Criteria (see page 109)

# Chapter 7: Layouts

Layouts control what information is displayed and how information is formatted when viewing a data set or its members. CA File Master Plus users can specify a layout to use when working with any data set or member. The layout provides an easy way to control which fields are viewed and how records are formatted. Layouts also help to identify which records are displayed.

CA File Master Plus supports the use of two different types of layouts: COBOL or PL/I layouts and custom layouts.

A COBOL or PL/I layout, also referred to simply as a *layout*, can be a member of a PDS, a CA Librarian data set, or a CA Panvalet data set.

A *custom layout* defines one or more custom views based on COBOL or PL/I layouts. A custom layout must reside in a PDS.

Using a custom layout you can do the following:

- Map data using different record layouts for different record types
- Eliminate layout fields that you do not want to include in your view
- Map only a portion of a file record starting at a specified record offset

A custom layout contains references to one or more ordinary COBOL or PL/I layouts. You can use custom layouts anywhere that CA File Master Plus allows a layout, except within another custom layout.

CA File Master Plus users can access any number of layout data sets and members. Use this feature to create, update, and apply the layouts that you work with. You can add, remove, and modify layouts using the Layouts view.

**Note:** You can view the properties of any layout data set in your Layout view. To display layout data set properties, right-click a layout data set and select Properties.

This section contains the following topics:

# Add a Layout

You can add layouts to the Layouts view in CA File Master Plus so you can easily access and apply them.

**Follow these steps:**

1. Open the Layouts view.
2. Right-click anywhere in the Layouts view and select Add Layout.

   The Add Layout dialog opens.
3. Complete the following fields:

   **Data set name**

   Specifies the name of the PDS, CA Librarian, or CA Panvalet library that contains the layout member.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

   **Member**

   Specifies the name of the layout member.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).
4. Click OK.

   The selected layout and the associated field names are added to the Layouts view. The layouts are listed in alphabetical order.

**More information:**

Layouts (see page 113)
Create a Custom Layout (see page 115)
Modify Layout Rules (see page 116)
Define Selection Conditions (see page 118)
Insert a Layout (see page 119)
View a Layout (see page 120)
Update a Layout (see page 121)
Remove a Layout (see page 122)
Select a Data Set (see page 45)
Properties (see page 147)
Select a Member (see page 83)

# Create a Custom Layout

You can create custom layouts using the Layouts view so you can perform all your custom layout tasks within CA File Master Plus.

**Follow these steps:**

1. Open the Layouts view.
2. Right-click anywhere in the Layouts view and select Create Custom Layout.

   The Custom Layout Definition dialog opens.
3. Complete the following fields:

   **Data set name**

   Specifies the name of the PDS where you want the new layout member to reside.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

   **Member name**

   Specifies a member name for your custom layout.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).

   **Description**

   Specifies a description for your custom layout.

   **Record offset**

   Defines the number of records to skip at the beginning of the layout. If the first field in the layout does not correspond to the start of the record data, type the record that should be considered the first field of the layout.
4. Click Insert Layout.

   The Insert Layout wizard displays.
5. Complete the Insert Layout wizard. For more information, see Insert a Layout (see page 119).

   The layout or layouts you have selected are added to the member table.

   **Note:** After adding one or more layouts to the member table, you can modify the rules associated with the layout. For more information, see Modify Layout Rules (see page 116).
6. Select a layout and click Set as Default.

   The Default layout field updates to display the layout you selected.
7. Click OK.

   The Layouts view updates to display the layout you created.

**More information:**

Layouts (see page 113)
Add a Layout (see page 114)
Modify Layout Rules (see page 116)
Define Selection Conditions (see page 118)
Insert a Layout (see page 119)
View a Layout (see page 120)
Update a Layout (see page 121)
Remove a Layout (see page 122)
Select a Data Set (see page 45)
Properties (see page 147)
Select a Member (see page 83)

# Modify Layout Rules

You can use CA File Master Plus to modify the rules in a custom layout. Use this feature to define or update the data-specific conditions under which a particular layout is used. You can also use this feature to identify which fields are included in formatted displays.

**Follow these steps:**

1. Open the Custom Layout Definition dialog by taking one of the following actions:
   - Right-click a layout member and select Create Custom Layout.
   - Right-click a custom layout and select Update.

   The Custom Layout Definition dialog opens.
2. Select the layout member associated with the rules you want to create or modify.
3. Click Rules.

   The Rules dialog displays.
4. Modify the selection conditions to meet your needs. For each field, you can update the values in the following columns:

   **And/Or**

   Specifies whether to join multiple selection conditions. Select one of the following values: And, Or.

**Operator**

Defines the criteria. Select one of the following values: Equal, Not Equal, Greater Than, Less Than, Greater Than or Equal, Less Than or Equal, Contains.

**Note:** Not all values are available for all data formats.

**Compare Value or Field Name**

Creates the condition. Specify either a field name or one or more literal values. For example, *C'VT' C'NH' C'MA'*. Right-click in this field to see the available options.

**Note:** For more information on valid values for this field, see Define Selection Conditions (see page 106).

5. Click OK.

   The Rules dialog closes, and your changes to the selection conditions are saved.

**More information:**

Layouts (see page 113)
Add a Layout (see page 114)
Create a Custom Layout (see page 115)
Define Selection Conditions (see page 118)
Insert a Layout (see page 119)
View a Layout (see page 120)
Update a Layout (see page 121)
Remove a Layout (see page 122)
Select a Data Set (see page 45)
Select a Member (see page 83)

# Define Selection Conditions

A selection criteria member consists of statements that determine if the value in a given field meets a Define Selection Conditions value you specify. Build selection conditions based on a field in a custom layout member. Compare the value in that field to another field in the layout member or to a literal value that you define.

**To identify another field in the layout as the compare field in your selection condition, follow these steps:**

1. Select the row in the table that contains the field name on which you want to build the selection criteria.
2. Right-click in the Compare Value or Field Name cell and select Field Name

   The Select Field Name dialog displays.
3. Select the field name that you want to set as the compare field in your selection criteria.
4. Click OK.

   The Select Field Name dialog closes.

**To define literal values as the compare value in your selection condition, follow these steps:**

1. Select the row in the table that contains the field name on which you want to build the selection criteria.
2. Right-click in the Compare Value or Field Name cell and select one of the following data type indicators:
   - C—Character
   - H—Hex
   - T—Text

   The option you selected displays in the Compare Value or Field Name cell, followed by two single quotation marks.

   **Note:** Not all data type indicators are available for every field type.
3. Put your cursor between the two single quote marks.
4. Type between the single quote marks the literal value to which you want the field name compared.

   **Note:** For more information about selection criteria literal values, see Condition Specifications (see page 107).

   Repeat steps 2 to 4 until you have specified all the literal values for the selection condition for this field name.

**More information:**

Layouts (see page 113)
Add a Layout (see page 114)
Create a Custom Layout (see page 115)
Modify Layout Rules (see page 116)
Insert a Layout (see page 119)
View a Layout (see page 120)
Update a Layout (see page 121)
Remove a Layout (see page 122)

# Insert a Layout

When creating or modifying a custom layout, use the Insert Layout dialog to insert a layout into your custom layout.

**Follow these steps:**

1. Click Insert Layout from the Custom Layout Definition dialog.

   The Insert Layout dialog displays.

2. Complete the following fields:

   **Data set name**

   Specifies the name of the PDS, CA Librarian, or CA Panvalet library that contains the layout member.

   **Member**

   Specifies the name of the layout member.

3. Click Next.

   The Select Top Level page displays.

4. Select one or more top level field names from the Select Top Level page.

5. Click Finish.

   The selected layout and the associated field names are added to the Layouts view.

**More information:**

Layouts (see page 113)
Add a Layout (see page 114)
Create a Custom Layout (see page 115)
Modify Layout Rules (see page 116)
Define Selection Conditions (see page 118)
View a Layout (see page 120)
Update a Layout (see page 121)
Remove a Layout (see page 122)
Select a Data Set (see page 45)
Select a Member (see page 83)

# View a Layout

You can view the contents of a layout from the Layout view. The View Layout dialog shows the fields in the layout.

To view a layout, right-click the layout and select View.

**Follow these steps:**

1. Right-click the layout that you want to view and select View.

   The Custom Layout Update wizard opens.

2. Select the server that contains the layout you want to view.

3. Click Next.

   The Custom Layout Update wizard displays the contents of the selected layout member.

**More information:**

Layouts (see page 113)
Add a Layout (see page 114)
Create a Custom Layout (see page 115)
Modify Layout Rules (see page 116)
Define Selection Conditions (see page 118)
Insert a Layout (see page 119)
Update a Layout (see page 121)
Remove a Layout (see page 122)
Select a Data Set (see page 45)
Select a Member (see page 83)

# Update a Layout

You can update the properties and contents of a custom layout using the Layouts view.

**Follow these steps:**

1. Right-click the custom layout that you want to modify and select Update.

   The Update dialog opens.

2. Complete or update  following fields:

   **Data set name**

   Specifies the name of the PDS, CA Librarian, or CA Panvalet library where you want the new layout member to reside.

   **Note:** For more information about identifying a data set, see Select a Data Set (see page 45).

   **Member name**

   Specifies a member name for your custom layout.

   **Note:** For more information about identifying a member, see Select a Member (see page 83).

   **Description**

   Specifies a description for your custom layout.

   **Record offset**

   Defines the number of records to skip at the beginning of the layout. If the first field in the layout does not correspond to the start of the record data, type the record that should be considered the first field of the layout.

3. Click Insert Layout.

   The Insert Layout wizard displays.

4. Complete the Insert Layout wizard. For more information, see Insert a Layout (see page 119).

   The layout or layouts you have selected are added to the member table.

5. Select a layout and click Set as Default.

   The Default layout field updates to display the layout you selected.

6. Click OK.

   The Layouts view updates to display the layout you created.

7. Click Finish.

   The custom layout is updated and the Layout view refreshes.

# Remove a Layout

You can remove layouts you no longer want on your Layouts view. This procedure removes the layout from your Layouts view, but does not otherwise alter the layout itself.

**Follow these steps:**

1. Open the Layouts view.
2. Select the member or data set you want to remove.
3. Do one of the following:
   - Right-click the data set that you want to delete and select Remove Data Set From List.
   - Right-click the member that you want to delete and select Remove Member From List.

   The Confirm Remove dialog opens.

   **Note:** You can use Ctrl-click or Shift-click to remove multiple layouts.
4. Click Yes.

   The member, or the data set and its associated members, is removed. The Layouts view refreshes to show the list of available data sets and members.

**More information:**

Layouts (see page 113)
Add a Layout (see page 114)
Create a Custom Layout (see page 115)
Modify Layout Rules (see page 116)
Define Selection Conditions (see page 118)
Insert a Layout (see page 119)
View a Layout (see page 120)
Update a Layout (see page 121)

# Chapter 8: Editor

You can use CA File Master Plus to edit data sets and members from your Directory List view. Perform these actions through the Directory List view after adding one or more data sets. You can edit a data set or member that is not listed in your Directory List view by selecting a server and then selecting Open from the CA File Master Plus menu.

This section contains the following topics:



## Open a Data Set or Member

You can use CA File Master Plus to view and edit VSAM data sets, sequential data sets, and members of PDS files. You can open a data set or member that is not listed in your Directory List view by selecting a server and then selecting Open from the CA File Master Plus menu.

**Follow these steps:**

1. Open the Directory List view.
2. Right-click the data set or member that you want to edit and select Open.

   The Open Data Set wizard opens.
3. Complete the following fields, or verify that the prefilled information is correct:

   **Data set name**

   Specifies the name of the data set that you want to open.

   **Member name**

   Specifies the name of the member that you want to open.

   **Note:** This field is only active when opening a PDS member.

   **Volume serial**

   Enter the volume serial only if the data set is not cataloged. Otherwise, leave this field empty.

4. Specify the Open mode. Select one of the following options:

   **Edit**

   Allows you to make changes in the editor window and save the changes

   **View**

   Allows you to make changes in the editor window but you cannot save the changes

5. (Optional) Modify the values in the Change log options. These values are prefilled with the values you specified in the Configure Mainframe Settings dialog.

   **Data set name pattern**

   Displays the name of the change log file. This field is not editable.

   **Storage**

   Set one of the following:

   **Volume serial**

   Identifies the volume on which a new change log file will be allocated.

   **Note:** Select this only when directing the change log to a specific volume.

   **Generic unit**

   Identifies the generic unit on which a new change log file will be allocated.

   **Note:** Leave this blank if you want to use the generic unit default value.

**Primary allocation**

Defines the number of cylinders to indicate the space of the primary allocation of the change log data set. The value must be greater than zero.

**Secondary allocation**

Defines the number of cylinders to indicate the space of the secondary allocation of the change log data set.

**Note:** The Change log options are activated when the Enable change log option is selected. If the Enable change log option is selected but no values are specified in the Change log options, the values specified in the mainframe settings are used. For more information, see Configure Mainframe Settings (see page 36).

6. (Optional) Select Enable change log to capture changes that are made to the data set or member in the change log data set.
7. Click Next.
8. Select one of the following Display mode options:

   **Character**

   Displays records in character format.

   **Single Record**

   Displays one record at a time with the field names on the left and the formatted values on the right.

   **Note:** If you select this option, you must specify a record layout.

   To switch to another display mode once the editor is open, right-click anywhere in the editor and select a display format from the menu. Once the file opens, you can switch between Character and Hexadecimal format by clicking on the icon at the top of the file view.

9. Specify a layout. Do one of the following.
   - Select from the drop-down list a layout displayed in your Layout view.
   - Specify the layout data set and member name.

   **Note:** If you specified the character display mode, this step is optional.

10. (Optional) Specify selection criteria. Do one of the following:
    - Type selection conditions into the selection criteria text box.

      **Note:** For more information on valid selection conditions, see Selection Criteria Specifications (see page 107).

    - Click Layout to build selection conditions based on the contents of the specified layout.

      **Note:** For more information on modifying selection criteria, see Modify Layout Selection Conditions (see page 104).

**Note:** If you specify selection criteria, you can click Validate to verify that the selection criteria listed are legitimate.

- Click Import to import selection criteria from an existing selection criteria member.

  **Note:** For more information on importing selection criteria, see Import Selection Criteria.

**Note:** The layout section is not active if you selected Character for the Display mode.

11. Click Finish.

    The data set or member opens in the editor. Data sets opened with the View option are marked as Read-only.

**More information:**

Editor (see page 123)
Data Set in Use (see page 127)
Change Log (see page 128)
Character Format (see page 132)
Single-Record Format (see page 132)
Cancel (see page 133)
Data Set-level Operations (see page 133)
Record-level Operations (see page 141)
Select a Data Set (see page 45)
Select a Member (see page 83)

## Data Set in Use

Only one user or job can have a data set or member open in edit mode at one time, but more than one user can open a data set or member in view mode. If a user opens a data set or member in edit mode, no other user can edit or view that data set. However, if a user opens a data set or member in view mode, another user can open that data set in either edit or view mode.

If a user attempts to open in edit mode a data set or member that is already open in either view or edit mode, the Data Set in Use dialog displays. This dialog displays the following information about the job currently accessing the data set:

**Job Name**

Name of the job that has the data set open in view or edit mode

**Major Enqueue Name**

The data set resource name used by dynamic file allocation

**Enqueue Type**

The enqueue type is one of the following:

**SHR**

File can be allocated by other users

**EXCL**

File is allocated exclusively to the job

**System**

Name of the LPAR on which the resource is allocated

To exit the Data Set in Use dialog, do one of the following:

- Click Cancel.

  The action is canceled and the dialog closes.

- Click Continue

  If the data set is already opened in view mode, your request is processed and the data set opens in the editor.

  If another user already has the data set open in edit mode, a message displays informing you that you cannot edit the data set. Click OK and your action is canceled.

**More information:**

Open a Data Set or Member (see page 123)
Change Log (see page 128)

## Change Log

You have the option of enabling the change log when you open a data set or member for editing. The Open Data Set dialog displays when you have selected this option, made changes to a data set, and then close the data set. Use this dialog to set the options for the change log.

1. At the Save Resource message that displays when you close a data set that you have changed, click Yes.

   The Change Log dialog displays.

   The Log data set field displays the current data set specified for the change log.

2. Select one of the following options:

   **Print data set**

   Displays the Print Change Log wizard. For more information, see Print Change Log (see page 95).

   **Note:** If you select this option, the Delete after print option is enabled. Select this option to delete the data set after it is printed.

   **Keep data set**

   Adds the change log from the edit session to the end of the change log specified at the top of the dialog.

   **Note:** If you select this option, the Allocate new data set in next session option is enabled. Select this option to allocate a new data set at the beginning of the next session and save the change log to the new data set. The name of the new change log is determined by the pattern defined in the CAWAOPTS module. The default pattern results in the same data set name as the currently specified change log with the last number incremented by 1.

   **Delete data set**

   The change log is deleted without printing.

3. (Optional) Enter a description of the changes that you made to the data set you are closing. You can enter three lines of up to 60 characters each in this field. Each line displays as a separate line in the change log report.

4. Click OK.

   The change log is processed as specified.

   If you selected an option to print the change log, the Print Change Log wizard displays. For more information, see Print Change Log (see page 95).

**More information:**

Open a Data Set or Member (see page 123)
Print Change Log (see page 130)
Data Set in Use (see page 127)

## Print Change Log

When you select an option to print the change log from the Open Data Set dialog, the Print Change Log wizard displays.

**Note:** You can only print to a device configured for the mainframe environment.

**Follow these steps:**

1. Specify the following options:

   **Sysout class**

   Specifies the position of the sysout class to which you want the printer routed.

   **Number of copies**

   Specifies the number of copies that you want printed.

   **(Optional) Define print destination**

   Specifies the printer you want to use. Select one of the following options:

   **Destination printer**

   Specifies the printer ID of the local or remote printer to which you want the print job routed.

   **External JES node**

   Specifies the external JES node name to which you want the print job routed.

   **Sysout writer name**

   Specifies the member name of the sysout writer program to which you want the print job routed.

   **Print data set name**

   Specifies the name of the data set to which you want to print.

   **Print member name**

   Specifies the name of the member to which you want to print. Also specify the data set disposition:

   - Select SHR if you want the printed data to replace the contents of an existing data set. This option allows concurrent access to the data set while the print is in progress.
   - Select MOD if you want the printed data added to the end of an existing data set.
   - Click the New button to create a new data set.

   **Note:** For detailed information about the Allocate screen, see one of the following topics in the online help:

   Allocate a New PDS (see page 62)

Allocate a New Sequential Data Set (see page 65)

Allocate a New VSAM Data Set (see page 67)

2. Specify the output format. Specify the following options:

   **Output format**

   Specifies the format of the change log data. Select one of the following options:

   **Character**

   Displays records in character format, up to 100 characters.

   **Hexadecimal**

   Displays records in three-line hexadecimal format.

   **List**

   Displays records in character format without scale and record numbers.

   **Single record**

   Displays field names and values for each record.

   **Field display**

   Specifies which fields to print. Select one of the following options:

   **All**

   Prints all fields in the data set.

   **Mismatched**

   Prints only fields that have different content.

3. Click Next.
4. Type 1-4 lines of JCL control statements into the Job information box. If you specified job information in the Configure Mainframe Settings dialog, that information is prefilled and you can edit it if needed.

   **Note:** Each line can contain up to 73 characters.

5. Click Finish.

   The print job is submitted to the printer you have specified as the default in your mainframe settings.

**More information:**

Change Log (see page 128)

# Character Format

The CA File Master Plus editor can display records in character format. To display records in character format, do one of the following:

- Select the character display mode in the Open a Data Set wizard.
- Right-click anywhere in the editor screen and select Character format from the menu.

The contents of the data set or member display in the editor in character format.

**More information:**

Editor (see page 123)
Open a Data Set or Member (see page 123)
Single-Record Format (see page 132)
Cancel (see page 133)
Data Set-level Operations (see page 133)
Record-level Operations (see page 141)

# Single-Record Format

The CA File Master Plus editor can display records in single-record format. The record number, record length, and record layout are displayed at the top of the editor. The record data is displayed in a table format showing the layout fields and values. Use the First, Previous, Next, and Last buttons to navigate through the records in the data set or member.

To display records in single-record format, do one of the following:

- Select the single-record display mode in the Open a Data Set wizard.
- Right-click anywhere in the editor screen and select Single-record format from the menu.

The contents of the data set or member display in the editor in single-record format.

**Note**: To view records in single-record format using either method, you must specify a layout when opening the data set or member.

**More information:**

Editor (see page 123)
Open a Data Set or Member (see page 123)
Character Format (see page 132)
Cancel (see page 133)
Data Set-level Operations (see page 133)
Record-level Operations (see page 141)

# Cancel

Cancel the changes you have made in the editor by clicking the X on the editor tab. The editor will close without saving any changes and the data set or member will revert to the state of its last save.

**More information:**

Editor (see page 123)
Open a Data Set or Member (see page 123)
Character Format (see page 132)
Single-Record Format (see page 132)
Data Set-level Operations (see page 133)
Record-level Operations (see page 141)

# Data Set-level Operations

Use the following commands to modify your data set-level operations.

**More information:**

Editor (see page 123)
Exclude (see page 134)
Flip (see page 135)
Locate (see page 136)
Find (see page 137)
Reset (see page 141)
Open a Data Set or Member (see page 123)
Character Format (see page 132)
Single-Record Format (see page 132)
Cancel (see page 133)
Record-level Operations (see page 141)

## Exclude

Use the Exclude command to exclude all lines that match a specified pattern or string. The editor shows all records except for those that match the Exclude criteria.

**Follow these steps:**

1. Right-click anywhere in the editor, click Data Set-level Operations, Exclude.

   The Exclude dialog displays.

2. Specify the following values:

   **Exclude string**

   Specifies the string to exclude.

   **Start column**

   Specifies the first, or leftmost, column in which to search.

   **End column**

   Specifies the last, or rightmost, column in which to search.

   **Note:** If the end column is not also specified, the specified string must begin the in the start column.

3. Specify the following options:

   **Next**

   Start from the current position in the file and locate the next occurrence of the specified string.

   **Previous**

   Start from the current position in the file and locate the previous occurrence of the specified string.

   **First**

   Start at the beginning of the file and locate the first occurrence of the specified string.

   **Last**

   Start at the end of the file and locate the last occurrence of the specified string.

   **Character**

   Match strings anywhere in a word.

   **Word**

   Match only complete words.

   **Prefix**

   Match only strings at the beginning of words.

   **Suffix**

Match only strings at the end of words.

4. Click one of the following buttons:

   **Exclude**

   Excludes a single item.

   **Exclude All**

   Excludes all items.

   The dialog closes and the editor refreshes, hiding from view any lines that match the excluded criteria. Contiguous excluded lines are displayed as a single line of dashes.

**More information:**

Data Set-level Operations (see page 133)
Flip (see page 135)
Locate (see page 136)
Find (see page 137)
Reset (see page 141)

## Flip

Use the Flip command to toggle the state of the Exclude processing option without redefining the option. All lines that were previously excluded are displayed, and all lines that were previously displayed are excluded.

To execute the Flip command, right-click anywhere in the editor, click Data Set-level Operations, Flip. The editor refreshes, showing the opposite of the previous display.

For example, if the editor showed the contents of a member with 20 records excluded, using the Flip command will cause the editor to refresh showing only those 20 records.

**More information:**

Data Set-level Operations (see page 133)
Exclude (see page 134)
Locate (see page 136)
Find (see page 137)
Reset (see page 141)

## Locate

Use the Locate command in the editor to jump to a specific record in the open data set or member.

**Follow these steps:**

1. Right-click anywhere in the editor, click Data Set-level Operations, Locate.

   The Locate dialog displays.

2. Specify the a value for one of the following options:

   **Line number**

   Locates records according to the numeric line number.

   **Key value**

   Locates records according to a full or partial VSAM key field value.

   Type can be Character or Hexadecimal. Character is the default. Click the drop-down arrow and select Hexadecimal to change the value.

   **Keywords**

   Select one or more of the commands that you want to include in your locate criteria:

   **Change**

   Jumps to a record with a CHANGE attribute.

   **Command**

   Jumps to a record with a COMMAND attribute.

   **Error**

   Jumps to a record with an ERROR attribute.

3. Select one of the following location options:

   **First**

   Jumps to the first record with the specified keyword command.

   **Last**

   Jumps to the last record with the specified keyword command.

   **Next**

   Jumps to the next record with the specified keyword command.

   **Previous**

   Jumps to the previous record with the specified keyword command.

4. Click OK.

   The editor refreshes to display the record that meets the defined criteria.

**More information:**

Data Set-level Operations (see page 133)
Exclude (see page 134)
Flip (see page 135)
Find (see page 137)
Reset (see page 141)

## Find

Use the Find/Change command in the editor to find records that contain specified character strings and to change one specified string to another. You can use the editor normally while the Find/Change dialog is open.

**Follow these steps:**

1. Right-click anywhere in the editor, click Data Set-level Operations, Find/Change.

   The Find/Change dialog displays.

2. Specify the find and change details:

   **Find**

   Specifies the string to find.

   **Change to**

   Specifies the string with which you want the find string replaced.

   **Note:** If the Change to and Find fields are not the same length, the record length is corrected by be removing characters or adding pad characters to the end of the record. The Change Confirmation message displays with more information about correcting the length of the changed record.

   **Type**

   Specifies the data type of the find string.

   **Length**

   Specifies the length of the find string.

   **Note:** You must complete the Length field if you selected Packed decimal as the data type. Otherwise this field is not active.

3. Select the column range information:

   **Start column**

   > Specifies the first, or leftmost, column in which to search.

   **End column**

   > Specifies the last, or rightmost, column in which to search.
   >
   > **Note:** If the end column is not also specified, the specified string must begin the in the start column.

   **Note:** If no column limits are specified, all columns are searched for the Find string.

4. Select the occurrence options:

   **Next**

   > Start from the current position in the file and locate the next occurrence of the specified string.

   **Previous**

   > Start from the current position in the file and locate the previous occurrence of the specified string.

   **First**

   > Start at the beginning of the file and locate the first occurrence of the specified string.

   **Last**

   > Start at the end of the file and locate the last occurrence of the specified string.

5. Select the location options that define where the string can occur in the context of other characters in a record:

   **Character**

   > Match strings anywhere in a word.

   **Word**

   > Match only complete words.

   **Prefix**

   > Match only strings at the beginning of words.

   **Suffix**

   > Match only strings at the end of words.

6. Specify the search options that define where to perform the search:

   **All lines**

   Search in all lines.

   **Excluded**

   Search only in excluded lines.

   **Nonexcluded lines**

   Search only in lines that are not excluded.

   **Find limit**

   Specifies the number of records to include in the search.

7. Click one of the following buttons:

   **Find**

   Runs the find command until the specified conditions are met once.

   **Note:** The result is highlighted in the editor in Character mode but not in single-record format.

   **Find all**

   Runs the find command until all instances that meet the specified conditions are met.

   **Note:** The result is highlighted in the editor in Character mode but not in single-record format.

   **Change**

   Runs the change command until one change is made according to the specified conditions.

   **Note:** This button activates when you specify a value in the Change to field.

   **Change all**

   Runs the change command until all changes are made according to the specified conditions.

   **Note:** This button activates when you specify a value in the Change to field.

   A message displays a summary of the find or change results.

   **Note:** If the Find and Change to values are a different length, the Change Confirmation dialog displays showing information about correcting the record length. Click OK to exit the Change Confirmation message. For more information about correcting the record length, see Change Confirmation (see page 140).

8. Click Close.

   The Find/Change dialog closes. The find or change results remain highlighted until you run a find or change command again or until you reset the processing option. For more information, see Reset (see page 141).

**More information:**

Data Set-level Operations (see page 133)
Change Confirmation (see page 140)
Exclude (see page 134)
Flip (see page 135)
Locate (see page 136)
Reset (see page 141)

## Change Confirmation

When using the Find/Change dialog to change the contents of a record, the record length must remain the same. If the length of the Find and Change to fields are different, the Change Confirmation message displays.

If the length of the Change to string is greater than the length of the Find string, the Change Conformation displays, telling you that the end of the record will be truncated to correct the record length. Click OK to close the Change Confirmation message.

If the length of the Change to string is less than the length of the Find string, the Change Confirmation displays, prompting you to specify the type of the pad characters to add to the end of the record. Specify the pad character details and then click OK.

To specify the pad characters, select one of the following options:

**Space**

Specifies a blank character.

**Null**

Specifies a null character.

**Character**

Specifies a specific character.

**Note:** if you select this option, the Value field is enabled. Specify the character to add to the end of the record.

**Hexadecimal**

Specifies a hexadecimal character.

**Note:** if you select this option, the Value field is enabled. Specify hexadecimal value to add to the end of the record. For example, 00.

**More information:**

Find (see page 137)

## Reset

Use the Reset command in the editor to reset processing options. It clears any highlighting, line markers, and shows any lines that were excluded.

**Follow these steps:**

1. Right-click anywhere in the editor, click Data Set-level Operations, Reset.

   The Reset dialog displays.

2. Select all of the processing options that you want to reset:

   **Command**

   Clears all pending commands.

   **Error**

   Removes all error flags.

   **Exclude**

   Resets all exclude status.

   **Change**

   Removes all change flags.

   **Find**

   Clears all find highlights.

   **Note:** You must select at least one reset option.

3. Click OK.

   The specified processing options are reset.

**More information:**

Data Set-level Operations (see page 133)
Exclude (see page 134)
Flip (see page 135)
Locate (see page 136)
Find (see page 137)

# Record-level Operations

Use the following commands modify your record-level operations.

**More information:**

Editor (see page 123)
Copy (see page 142)
Move (see page 143)
Delete (see page 144)
Insert (see page 144)
Repeat (see page 145)
Case Change (see page 145)
Open a Data Set or Member (see page 123)
Character Format (see page 132)
Single-Record Format (see page 132)
Cancel (see page 133)
Data Set-level Operations (see page 133)

## Copy

Use the Copy command in the editor to copy a record or records within a data set.

**Follow these steps:**

1. Right-click the record that you want to copy in the editor, and then click Record-level Operations, Copy.

   The Move/Copy pending action displays in the status bar.

   **Note:** You can use Shift+click to copy multiple contiguous records.

2. Right-click the destination record.

   **Note:** You cannot paste into the selection that is being copied.

3. Click Paste and then select one of the following from the menu:

   **After**

   Copies the record or records after the selected destination record.

   **Before**

   Copies the record or records before the selected destination record.

   The records are copied and the editor view updates.

**More information:**

Record-level Operations (see page 141)
Move (see page 143)
Delete (see page 144)
Insert (see page 144)
Repeat (see page 145)
Case Change (see page 145)

## Move

Use the Move command in the editor to move a record or records from one location to another location within the same data set.

**Follow these steps:**

1. Right-click the record in the editor that you want to move, and then click Record-level Operations, Move.

   The Move/Copy pending action displays in the status bar.

   **Note:** You can use Shift+click to copy multiple contiguous records.

2. Right-click the destination record.

   **Note:** You cannot paste into the selection that is being moved.

3. Click Paste and then select one of the following from the menu:

   **After**

   Moves the record or records after the selected destination record.

   **Before**

   Moves the record or records before the selected destination record.

   The records are moved and the editor view updates.

**More information:**

Record-level Operations (see page 141)
Copy (see page 142)
Delete (see page 144)
Insert (see page 144)
Repeat (see page 145)
Case Change (see page 145)

## Delete

Use the Delete command in the editor to delete any number of records.

To delete a record from a data set, right-click the record that you want to delete and then select Record-level Options, Delete from the menu. The record is deleted and the editor view updates.

**Note:** You can use Ctrl+click or Shift+click to select multiple records to delete.

**More information:**

Record-level Operations (see page 141)
Copy (see page 142)
Move (see page 143)
Insert (see page 144)
Repeat (see page 145)
Case Change (see page 145)

## Insert

Use the Insert command in the editor to insert any number of new records.

**Follow these steps:**

1. Right-click a record in the editor, and then click Record-level Operations, Insert.

   The Insert dialog opens.

2. Specify the following values as necessary:

   **After Current Record**

   Inserts the new records after the selected record.

   **Before Current Record**

   Inserts the new records before the selected record.

   **Number of records.**

   Type or select the number of records that you want to insert.

   **Record length**

   This field is only active when you work with a variable-length file. Type or select the record length.

3. Click OK to complete.

   The new records are inserted and the editor view updates.

**More information:**

Record-level Operations (see page 141)
Copy (see page 142)
Move (see page 143)
Delete (see page 144)
Repeat (see page 145)
Case Change (see page 145)

## Repeat

Use the Repeat command in the editor to repeat a record or records.

To repeat a record or records within a data set, right-click the record that you want to repeat and then select Record-level Options, Repeat from the menu. A new record is inserted with the same contents of the selected record, and the editor view updates.

**Note:** You can use Ctrl+click or Shift+click to select multiple records to repeat.

**More information:**

Record-level Operations (see page 141)
Copy (see page 142)
Move (see page 143)
Delete (see page 144)
Insert (see page 144)
Case Change (see page 145)

## Case Change

Use the Case Change command in the editor to change a record to uppercase or lowercase.

To change the case of a record or records, right-click the record and then select Record-level Options, Change Case. Select Lowercase or Uppercase to suit your needs. The case is changed and the editor view updates.

**Note:** You can use Ctrl+click or Shift+click to select multiple records for this feature.

**More information:**

Record-level Operations (see page 141)
Copy (see page 142)
Move (see page 143)
Delete (see page 144)
Insert (see page 144)
Repeat (see page 145)

# Chapter 9: Properties

You can use the Properties view to display the properties for a selected data set.

To display data set properties, right-click a data set and select Properties. The Properties view opens, or refreshes if it is already open, and shows the attributes for that data set.

Access this feature through any of the following views:

- Directory List
- Layouts
- Selection