EspMenu

User Manual





READ ME FIRST

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1. INTRODUCTION

1.1 Purpose

To provide users system access in a controlled and secure manner.

1.2 Product Overview

EspMenu is the **Cronus** menu system that provides secure and controlled access to the ESP product suite. **EspMenu** has embedded security on menu, function, and option level. Allocation of menus and functions to individual users or groups can easily be done using the **EspMenu** administrator account "**MENUADM**".

Multiple users can be assigned to one or more groups thus simplifying the task of granting user access.

There is no limitation to the number of levels of menus. Security is provided down to the function option level. A maximum of 20 options can be defined at function level.

Security at function level is provided in a hierarchical manner. The top-level user "MENUADM" has access to all menus, functions, and their respective options. This top-level user can assign menus and functions to other users/groups. A user/group can then distribute those menus and functions allocated to him/her to other users/groups of whom he/she is the owner.

All multiple-choice fields are validated using a help-and-fill facility. If an entered field is incorrect a window is displayed with the possible values. The value selected from the list is pulled into the corresponding field value.

EspMenu provides the following functionality:

- Access to ESP product suite and user defined functions.
- Security based on user and O/S (operating system) groups.
- Online printer definitions.
- Dynamic generation of menus and functions provided that the standard ESP flowerbox is used.



2. DEFINITIONS AND SECURITY

2.1 Accessing EspMenu

The EspMenu system is invoked by typing "FAST" on the Natural command line in library ESPSOFT.

Menu structures are dynamically generated based on the access granted by the menu administrator. The menu administrator has unrestricted access to all the defined menus and functions.

User access to menus and functions is controlled based on the O/S groups that the user belongs to. A user has access to all menus, functions and options that have been assigned to his/her User Id and any of the operating system groups that he/she belongs to.

To access **EspMenu** as the administrator one of the following must be true:

- User belongs to operating system group cronus.
- User belongs to the admin group defined using function MA001 Maintain EspMenu Setup. In addition, the user or any of the groups that he/she belongs to must have the MENUADM Account set to 'Y' on function MA002 Maintain Users/Groups.

Additional security exists at function level where certain users do not necessarily have full access to all the options for a specific function.

The following message is displayed when a user attempts to access **EspMenu** and does not have an **EspMenu** user account.

At this point the user can continue with available defaults (menus and functions allocated to the O/S group(s) he/she belongs) or press **PF9** to automatically generate a user account and define online printers.

User ID: CRONUS

You are not defined on EspMenu

Using available default account access

Press <ENTER> to Continue using defaults or

<PF9> to define default printer information

and generate User ID



The information message displayed, is contained in the user-exit program **ESPUDEF**, and can be modified for a specific site installation.

If no Menus/Functions have been assigned to the user and groups that he/she belongs to the following message is displayed after which the Natural session is terminated. The display is limited to the first 8 operating system groups that the user belongs to.



For the purpose of this document, we assume that the user has administrator access.



2.2 User Exits

All user exits are located in Natural library ESPSOFT.

ESPUDEF:

ESPUDEF is invoked from the **EspMenu** startup program **ESPSETUP**. **ESPUDEF** can be customized to define default user settings such as printers and online work files.

ESPUX001:

This user exit is invoked from EspMenu by pressing function key **PF2 (Uexit)**. It should contain code that transfers the user to the correct system location after exiting EspMenu. Access to this user exit can be disabled by setting the value of "Enable User Exit" to **N**o using function **MA001 Maintain - EspMenu Setup**.

ESPUX005:

This user exit is invoked at the startup of EspMenu and each time a function is executed. It should be used to populate site/function specific global variables.



MENU OVERVIEW AND FUNCTION SELECTION

Once a user has logged on to the **EspMenu** system – the main system menu will be displayed with all menus/functions that the user has access to.

The following information is displayed on the menu screen:

```
×
MAP901
                    *** Cronus Consulting - DEV *** V7.2.1
                                                                     09:31:24.3
MAM901
                         - Real Time System Menu -
                                                                     2022/09/20
             EspControl - Change Control System (I.S.R)
             EspConvert - Convert JCL to SCL
  CJ
             ESPConnect - Con-nect Main Menu -
  CN
             EspBatch - Job Scheduler
  JS

    Menu Administration

  MA
             EspMenu
                       - Adabas File Utility (Editor)
  PΚ
             EspPeek
             EspUtils - EspSoft Utilities
  \mathbf{U}\mathbf{T}
                          *** End of Data ***
                                                                 UDB.: 31
Printer.: PRT01
                                                                 User: MENUADM
Function:
                   Data:
                                                                 PID.: 1185491
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
           Uexit
                                                PgDn SetPr
```

Screen Layout:

• Top line - Object name, main heading, EspSoft version and system time.

Second line - Object name, menu name and system date.

Lines 4 to 18 - Available menus/functions.

Line 19 - Current value of Natural UDB parameter.

Line 20 - Default Printer (If the user has not specified a default printer, then the value of Printer 1 defined on JS002 Maintain - EspBatch Codes with Code Type/Value REPORT/DEFAULTS is displayed).

The User Id of the current user. **MENUADM** is displayed if the user has administrator privileges.

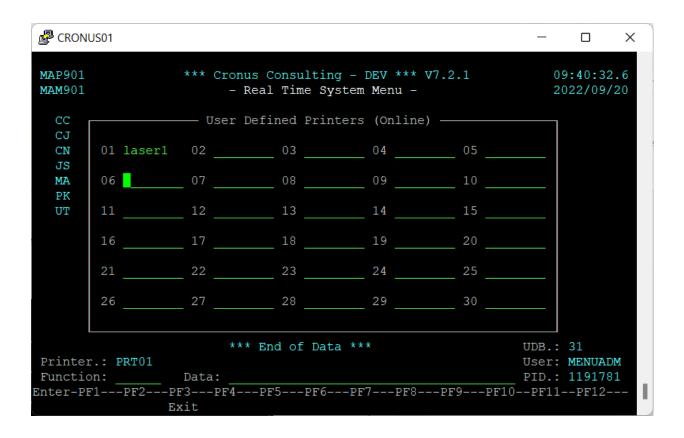
Line 21 - Function selection area and O/S process id or terminal id.

Line 22 and 23 - Available function keys.



The users default printer(s) can be updated by pressing function key **PF9**, this will open a window where online printers 1 to 30 can be specified (where printer nn corresponds to the output(nn) statement in your natural source). Only printers that have been defined using EspBatch function **JS004 Maintain** - **EspBatch Printers** may be specified.

The setup of online printers by a user can be restricted by setting "Allow Printer Change" to "N" on function MA002 Maintain – Users.





Partial list of functions when menu MA (EspMenu - Menu Administration) is selected.

```
♣ CRONUS01

                                                                        X
MAP902
                                                                    09:41:15.5
                   *** Cronus Consulting - DEV *** V7.2.1
MAM902
                 - MA : EspMenu
                                   - Menu Administration -
                                                                    2022/09/20
  MA001
             Maintain - EspMenu Setup
  MA002
             Maintain - Users/Groups
  MA003
             Maintain - Functions
             Maintain - Menus
  MA004
  MA005
             Maintain - User Preferences
  MA011
                       - Menus to Menus
  MA012
                       - Menus to Users/Groups
  MA013
                       - Functions to Users/Groups
  MA014
             Link
                       - Functions to Users/Groups (Menu Tree)
             View
  MA021
                       - Users/Groups linked to Owner
             View
  MA022
                       - Users/Groups linked to Menu
             View
  MA023
                       - Users/Groups linked to Function
             View
                       - Menus/Functions linked to a User/Group
  MA024
  MA031
             View
                       - Unused Menus
  MA032
             View
                       - Unused Functions
                         ** Start of Data **
                                                                UDB.: 31
Printer.: PRT01
                                                                User: MENUADM
Function:
                  Data:
                                                                PID.: 1191781
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
           Uexit Quit
                                               PgDn SetPr
                                                                       Logof
```

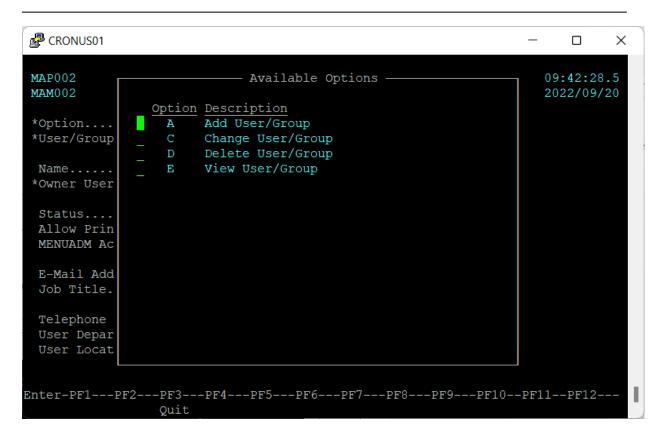
Function keys:

- PF2 Invoke user exit ESPUX001. This user exit can be customized for your environment. It should contain code that transfers the user to the correct system location after exiting EspMenu. Function key is enabled if "Enable User Exit" is set to Yes using function MA001 Maintain EspMenu Setup.
- PF3 Return to Main/Previous Menu
- PF7 Page Backward
- PF8 Page Forward
- PF9 Set up default printers
- PF12 Logoff

Function / Menu selection can be done as follows:

- All menu and function selection are cursor sensitive and can be accomplished by positioning the cursor on the line containing the desired menu or function and then pressing <ENTER>.
- Typing the menu or function name in the function selection area. Parameters required by the function can be typed in the data area, which will be passed to the function.





Once a function is selected that contains an OPTION field, the user will be required to enter a valid option, the option entered by the user will be validated against the predefined access set up for that user, thus only allowing the user to perform actions at function level according to his/her security profile. If the option field is omitted and the <ENTER> key is pressed, a window containing valid options will be displayed allowing the user to choose the desired option. Option selection can be accomplished by entering the desired option or by placing the cursor in the line containing the option and pressing <ENTER>.



3. FUNCTION OVERVIEW

3.1 MA001 Maintain - EspMenu Setup

This function is used to define global values that are used throughout EspMenu and should not be assigned to all users.

```
₽ CRONUS01
                                                                      X
 MAP001
                    *** Cronus Consulting - DEV ***
                                                                   09:44:41.6
                                                                   2022/09/20
MAM001
                       Maintain - EspMenu Setup
 *Option..... C
 Main Heading.....: *** Cronus Consulting - DEV ***_
 Admin Group..... system
 Enable User Exit...: Y (ESPUX001)
  Terminal/Process ID: P
 EspSoft Version...: V7.2.1
  Installation User..: SYSTEM
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                 Quit
                            Upd
```

Function Options:

C - Change Setup

E - View Setup

Parameters:

Main Heading: Main heading displayed at the top of all EspSoft menus and functions.

After modifying the current session must be terminated for the change to

take effect.

• Admin Group: Administrator group for menu access. This group must be defined on

the Unix/Linux O/S level, users that are linked to this O/S group will have administrator access if the user or any of the groups that they belong to have MENUADM Account set to 'Y' on function MA002

Maintain - Users/Groups.



• Enable User Exit: Valid values are Yes and No. If yes is specified function key PF2 is

enabled which invokes user exit ESPUX001.

• Terminal/Process ID: Valid values are Terminal ID or Process ID. The set value determines if

the terminal id or operating system process id must be displayed

beneath the User ID on the menu screen. Note that Process ID must be

selected if you are running **EspMenu** via **Applinx**.

• EspSoft Version: Displays the current EspSoft version no. This parameter is not

modifiable.



3.2 MA002 Maintain - Users

This function is used to maintain user/group accounts. After selecting this function, the required option and user/group id must be supplied. Fields are validated using a help-and-fill facility.

× *** Cronus Consulting - DEV *** MAP002 09:47:03.7 MAM002 Maintain - Users/Groups 2022/09/20 *Option..... C *User/Group ID: MENUADM *Copy from User/Group ID: Name...... Menu Administrator *Owner User/Group ID.: MENUADM Menu Administrator Allow Printer Change: Y MENUADM Account....: Y E-Mail Address....: info@cronus.co.za Job Title.... Telephone Number....: User Department....: User Location....: Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---

Function Options:

- A Add User/Group
- C Change User/Group

Quit

Upd

- D Delete User/Group
- E View User/Group

When adding a user/group an existing users/groups profile can be copied by entering the user/group id in the "Copy from User/Group ID" field. If an invalid user/group id is specified a list of available users/groups will be displayed and the desired user/group can be selected.



User/Group Information:

Required Fields

• Copy from - When creating a new user/group an existing user/group id can

be specified (The new user/group will inherit all menu(s) and function(s) assigned to the user/group specified in the Copy from field). You may only specify your user/group id or the user/group id of your children unless you have administrator

privileges.

Name - The users/groups name or a description of the user/group.

Owner - This is the owner of this user/group id. (Normally MENUADM).

You may only specify your user/group id or the user/group id of

your children unless you have administrator privileges.

Status - 1 – Active

9 - Suspended

• Allow Printer Change - This option will allow the user/group to change his/her default

printer(s) by pressing PF9.

MENUADM Account - If the user/group belongs to the admin group specified on

function MA001 Maintain - Maintain - EspMenu Setup and the user/group id or one of the groups that it belongs to has the "MENUADM Account" value set to Yes then the user/group will

be assigned administrator privileges.

Optional Fields

E-Mail Address - Users/Groups e-mail address.

Job Title - Users/Groups job title.

Telephone Number - Users/Groups telephone number.

User Department - Users/Groups department

User Location - Users/Groups location.

• Default Printer(s) (PF9) - Assignment of default printer(s) for a user/group. Printers are

maintained with function JS004 Maintain - EspBatch Printers.

Group Access Control

Access to **EspMenu** can be controlled by using O/S groups. A user/group will have access to all menus and functions allocated to its user/group and the O/S groups that it belongs to.

If a user/group belongs to the O/S group **cronus** it will be granted administrator privileges within **EspMenu**.



3.3 MA003 Maintain - Functions

This function is used to maintain functions within **EspMenu**. After selecting this function the required option and function id must be supplied. Fields are validated using a help-and-fill facility.

```
П
                                                                            ×
 MAP003
                      *** Cronus Consulting - DEV ***
                                                                   10:01:44.3
 E00MAM
                          Maintain - Functions
                                                                   2022/09/20
 *Option..: C
 *Function: MA002
 EspMenu Flowerbox: Used Menu/Function ID specified in flowerbox
 FUSER Path.....: /opt/softwareag/Natural/fuser_natd
*Menu ID...... MA______
 Description....: Maintain - Users/Groups
 Library Name....: ESPSOFT_
 Program Name....: MAP002
 Suspend.....
 Options..... ACDE
 Last Access Date.: 20220920
 Access Count....: 86
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                 Quit
                            Upd
```

Function Options:

A - Add Function

C - Change Function

D - Delete Function

E - View Function

Function Attributes:

• EspMenu Flowerbox: Valid values are Yes and No. If Yes is specified the flower box of the

program specified in the "Program Name" field which resides in library specified in the "Library Name" field will be scanned to determine the

menu id, function id, description, and available options.

• FUSER Path: Location of the Natural FUSER file. The library and program name

specified must reside in the specified FUSER.

Menu ID: The id of the menu to which the function must be added. Menu id may

only be specified if "EspMenu Flowerbox" is set to No.



Description: Function description that will be displayed. If "EspMenu Flowerbox" is

set Yes, the description will be obtained from the program's flowerbox.

• Library Name: The name of the library in which the functions program resides.

• Program Name: The name of program that the function executes.

• Suspend: Valid values are Yes and space. If Yes is specified the function is still

displayed on the relevant menu, but the function description is replaced

by "SUSPENDED" and cannot be executed.

Options: Available options for specified function.

Last Access Date: Date that the function was last executed.

Access Count: Number of times that the function has been executed.

Format of EspMenu Flowerbox:

*	*****************				
*	NAME	:	MAP002	*	
*	AUTHOR	:	Copyright: Cronus Consulting	*	
*	DESCRIPTION	:	Maintain - Users/Groups	*	
*	MENU LINK	:	MA	*	
*	FUNCTION	:	MA002	*	
*	OPTIONS	:		*	
*			A - Add User/Group	*	
*			C - Change User/Group	*	
*			D - Delete User/Group	*	
*			E - View User/Group	*	
*	END-OPTIONS	:		*	

When a function is added, the function is automatically added to user "MENUADM" under the specified menu. Use function MA013 Link - Functions to Users/Groups to grant users/groups access to the new function.



3.4 MA004 Maintain - Menus

This function is used to maintain menus within **EspMenu**. After selecting this function, the required option and menu id must be supplied. Fields are validated using a help-and-fill facility.

```
MAP004 *** Cronus Consulting - DEV *** 10:04:26.5
MAM004 Maintain - Menus 2022/09/20

*Option....: C
*Menu ID:...: MA_____

Description: EspMenu - Menu Administration_____

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12----
Quit Upd
```

Function Options:

- A Add Menu
- C Change Menu
- D Delete Menu
- E View Menu

Function Attributes:

• Description: Menu's description

When a menu is added, the menu is automatically added to user "MENUADM". Use function MA012 Link

- $\mbox{Menus to Users/Groups}$ to grant users/groups access to the new menu.



3.5 MA005 Maintain - User Preferences

This function allows you to define user preferences for EspSoft products EspBatch and EspControl.

After selecting this function, the required option and user id must be supplied. Fields are validated using a help-and-fill facility.

```
CRONUS01
                                                                  ×
 MAP005
                   *** Cronus Consulting - DEV ***
                                                               10:10:57.5
MAM005
                    Maintain - User Preferences
                                                               2022/09/20
 *Option..... C
 *User..... ESPBATCH *Copy from User ID:
 User Name...... EspBatch User
 EspBatch
 SCL User Library....: CRONUS_
                                     Auto Update: Y
 Submit User ID.....: ESPBATCH
                                     Auto Update: Y
 Report Viewer..... R
 EspControl
                                     Auto Update: Y
  ISR No....:
 Filter on Originator: Y
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Quit
                           Upd
```

Function Options:

A - Add User Preferences

C - Change Preferences

D - Delete Preferences

E - View Preferences

Function Attributes:

• SCL User Library: Defines the default value to populate the "SCL User Library" in EspBatch

tunction

• Auto Update: Valid values are Yes, No and Fixed. If Yes is specified the default value

is updated to the last SCL User Library entered within the EspBatch function. If **N**o is specified, the value of "SCL User Library" must be empty and EspBatch will make use of the global "SCL User Library"



defined within EspBatch. If **F**ixed is specified, the default "SCL User Library" is not updated with the last SCL User Library entered within the EspBatch function.

• Submit User ID: Defines the default value to populate the "User ID" in EspBatch

functions.

Auto Update: Valid values are Yes, No and Fixed. If Yes is specified the default value

is updated to the last User ID entered within the EspBatch function. If **N**o is specified, the value of "User ID" must be empty and EspBatch will make use of natural system variable *INIT-USER. If **F**ixed is specified, the default "User ID" is not updated with the last User ID entered within

the EspBatch function.

Report Viewer: Valid values are Report and File. Determines the viewer that is used

within EspBatch to view reports and work files.

ISR No: Contains the last ISR No used within EspControl.

• Auto Update: Valid values are Yes and No. If Yes is specified the default value is

updated to the last ISR No entered within EspControl.

• Filter on Originator: If this field contains a value all EspControl screens that have the "Filter

on Originator" option will be populated with the specified User ID.



3.6 MA011 Link - Menus to Menus

This function allows you to link sub menus to menus. The user/group id and menu id are required to which the menu must be linked. These values can be selected from the help-and-fill facility.

```
X
                      *** Cronus Consulting - DEV ***
MAP011
                                                                     10:54:44.2
MAM011
                                   - Menus to Menus
                                                                     2022/09/20
User ID: MENUADM_ Menu Administrator
                                                              Owner: MENUADM
                  EspControl - Change Control System (I.S.R)
           Seq Description
  Menu
X CC500
           100 ISR Control and Profiles
X CC501
           101 ISR Transfer
X CC502
           102 ISR Maintenance
X CC503
           103 Display ISR Information
X CC504
           104 ISR Return and Restore
  CJ
               EspConvert - Convert JCL to SCL
  CN
               ESPConnect - Con-nect Main Menu -
  CN101
               Cabinet Maintenance
               ESPConnect Codes
  CN102
               Document Maintenance
  CN103
  CN104
               Calendar
                            ** Start of Data **
Restart at Menu:
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
                 Quit
                                               PgDn
```

After the user/group id and menu id is entered a list of menus that the user/group has access to will be displayed.

This function allows for the creation of sub menus that can be grouped to suit user requirements.MA A sequence number allows for a specific order in which the menus will appear for a given user/group.

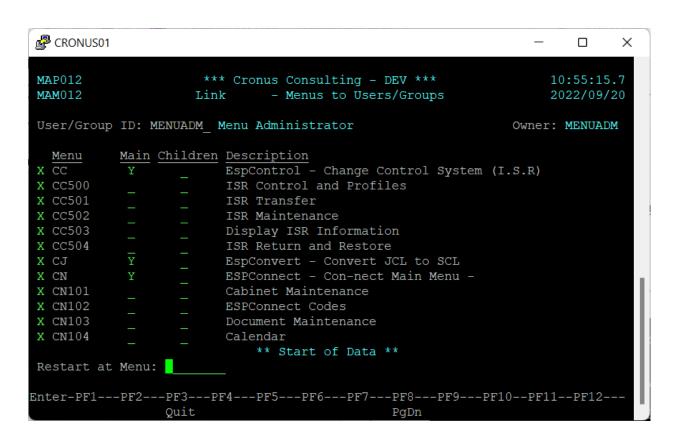
Linking Menus:

- Menu A menu can be linked by entering an "X" in the preceding column next to the menu id. To unlink a menu, remove the "X"
- Sequence The sequence number determines in which order the linked menus will be displayed. By default, menus are displayed in ascending alphabetical order.



3.7 MA012 Link - Menus To Users/Groups

This function is used to link menus to a user/group. If the user/group id is omitted a list of valid user/group id's will be displayed.



After selecting the user/group id, a list of previously assigned menus will be displayed. Only menus that have been assigned to the user/group by its parent are displayed.

Linking Menus:

•	
 Menu 	- By removing the "X" in the preceding column next to the menu
	id the menu will be removed from the specified user/group and
	its children.
• Main	- Valid values are: Yes and space. If Yes is specified, the menu is
	displayed on the main menu.
 Children 	- Valid values are: Menu and Functions. If Menu or Functions is
	specified a selection window is displayed providing options to
	copy the menu/functions to a given child or level (Next or All).
	Specify Menu if you only want to copy the specified menu or



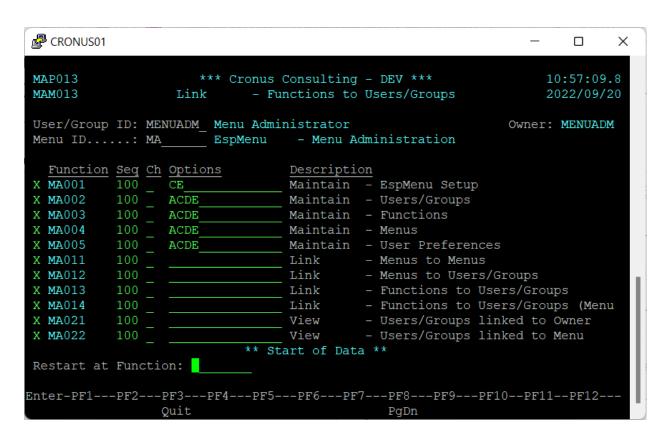
Functions to copy the menu and all menus/functions that are linked to it.

If a user/group id is specified in the "Copy to Child ID" field the level may not be specified. If Next is specified, then the menu/function(s) are copied to the users/groups direct children. If All is specified, then the menu/function(s) are copied to all the users/groups children.



3.8 MA013 Link - Functions To Users/Groups

This function is used to link functions to a user/group. If the user/group id or menu id is omitted a list of valid user/group id's and/or menu id's will be displayed.



After selecting the user/group id, a list of previously assigned functions will be displayed. Only functions that have been assigned to the user/group by its parent are displayed.

Linking Functions:

	_		
•	Function	-	By removing the "X" in the preceding column next to the function id the function will be removed from the specified user/group and its children.
•	Seq	-	The sequence number determines in which order the linked functions will be displayed. By default, functions are displayed in ascending alphabetical order.
•	Ch	-	Valid values are: Yes. If Yes is specified a selection window is displayed providing options to copy the function to a given child or level (Next or All).





If a user/group id is specified in the "Copy to Child ID" field the level may not be specified. If **N**ext is specified, then the function is copied to the users/groups direct children. If **A**II is specified, then the function is copied to all the users/groups children.

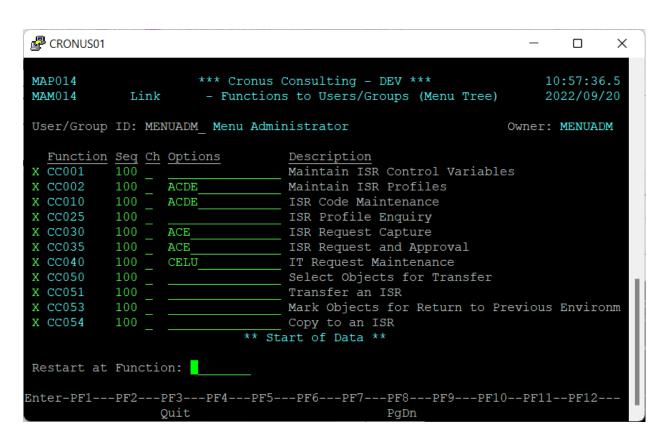
Options

Displays a list of available options for the function. If an option is removed it will also be removed from all the users/groups children.



3.9 MA014 Link - Functions to Users/Groups (Menu Tree)

This function is used to link functions to a user/group. If the user/group id is omitted a list of valid user/group id's will be displayed. If a function is assigned to a user/group the relevant menu tree structure is automatically added if the user did not previously have access to it.



After selecting the user/group id, a list of previously assigned functions will be displayed. Only functions that have been assigned to the user/group by its parent are displayed.

Linking Functions:

inking i unctions.				
•	Function	-	By removing the "X" in the preceding column next to the function	
			id the function will be removed from the specified user/group and	
			its children.	
•	Seq	-	The sequence number determines in which order the linked	
			functions will be displayed. By default, functions are displayed in	
			ascending alphabetical order.	
•	Ch	-	Valid values are: Yes. If Yes is specified a selection window is	
			displayed providing options to copy the function to a given child	
			or level (Next or All).	



If a user/group id is specified in the "Copy to Child ID" field the level may not be specified. If **N**ext is specified, then the function is copied to the users/groups direct children. If **A**II is specified, then the function is copied to all the users/groups children.

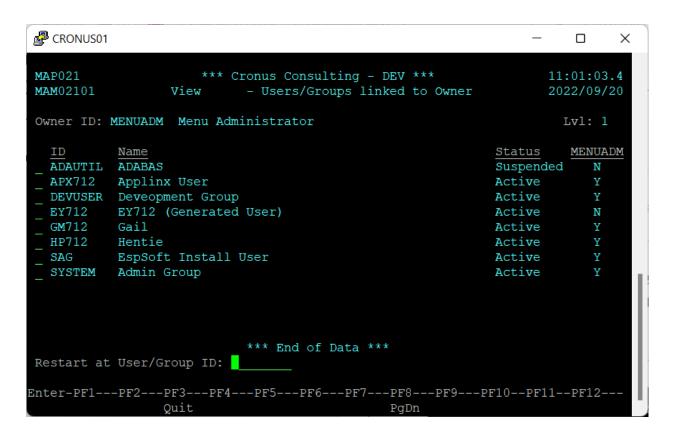
• Options

Displays a list of available options for the function. If an option is removed it will also be removed from all the users/groups children.



3.10 MA021 View - Users/Groups linked to Owner

This function displays all users/groups that are linked to the specified owner. If the owner is omitted a list of valid user/group id's will be displayed.

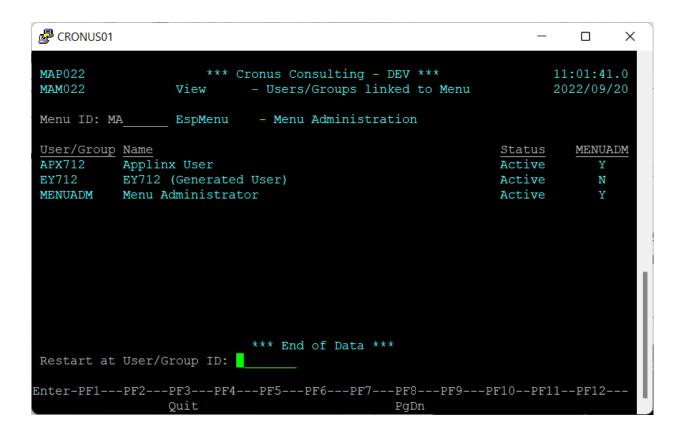


This function provides a drill down option whereby a user/group id can be selected by entering an "X" in the preceding column next to the user/group id. The current level is displayed next to the "LvI:" field that is located at the top right.



3.11 MA022 View - Users/Groups linked to Menu

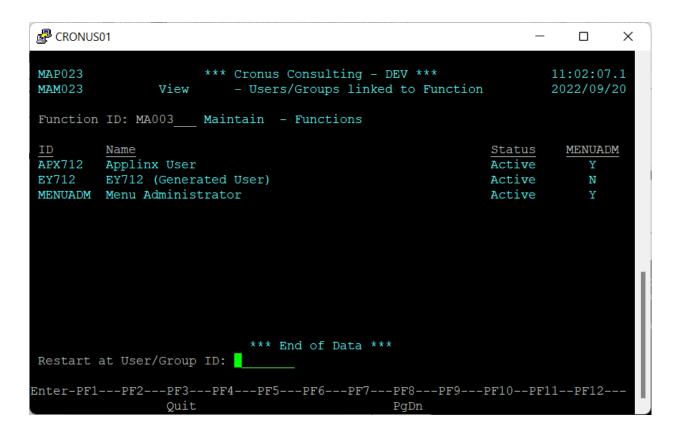
This function displays all users/groups that have access to the specified menu. If the menu is omitted a list of valid menus will be displayed.





3.12 MA023 View - Users/Groups linked to Function

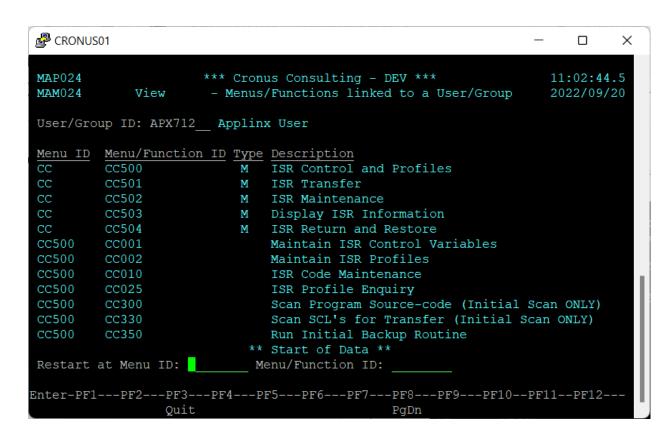
This function displays all users/groups that have access to the specified function. If the function is omitted a list of valid functions will be displayed.





3.13 MA024 Menus/Functions linked to a User/Group

This function displays all menus/functions that have been assigned to a user/group. If the user/group is omitted a list of valid users/groups will be displayed.



The "Type" column can contain an "M" or a blank. An "M" indicates that the value displayed in the "Menu/Function ID" column is a menu.



3.14 MA031 View - Unused Menus

This function displays unused menus. Menus are deemed to be unused if they are not assigned to any users/groups.

```
₽ CRONUS01
                                                                        ×
MAP031
                      *** Cronus Consulting - DEV ***
                                                                     11:04:36.2
                                   - Unused Menus
MAM031
                                                                    2022/09/20
                          View
         Description
Menu ID
         EspSoft Demo
                            *** End of Data ***
Restart at Menu ID:
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
                 Quit
                                               PgDn
```



3.15 MA032 View - Unused Functions

This function displays unused functions. Functions are deemed to be unused if they are not assigned to any users/groups.

```
♣ CRONUS01

                                                                        ×
                      *** Cronus Consulting - DEV ***
MAP032
                                                                     11:06:14.0
MAM032
                                - Unused Functions
                        View
                                                                     2022/09/20
 Function ID Description
                                                                       Program
                                                              Library
                       - Run Times per Batch Job
                                                              ESPSOFT
                             *** End of Data ***
Restart at Function ID:
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                  Quit
                                                PgDn
```



3.16 MA033 View - Inactive Users/Groups

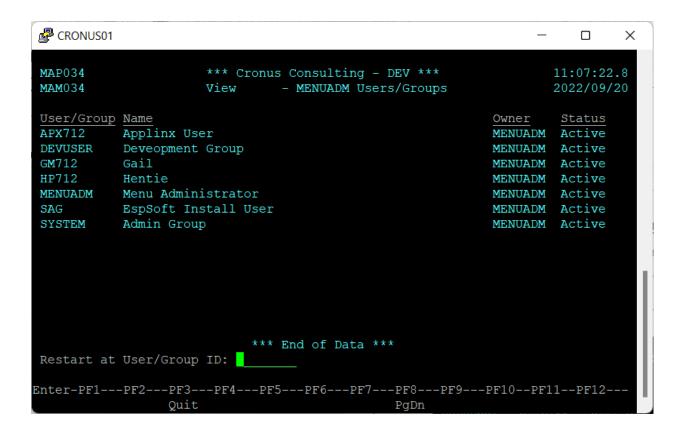
This function displays all inactive users/groups. A users/groups status can be updated using function MA002 Maintain - Users/Groups.





3.17 MA034 View - MENUADM Users/Groups

This function displays all admin users/groups ("MENUADM Account" specified as Yes). Use function MA002 Maintain Users/Groups to update admin users/groups.

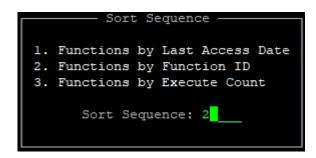


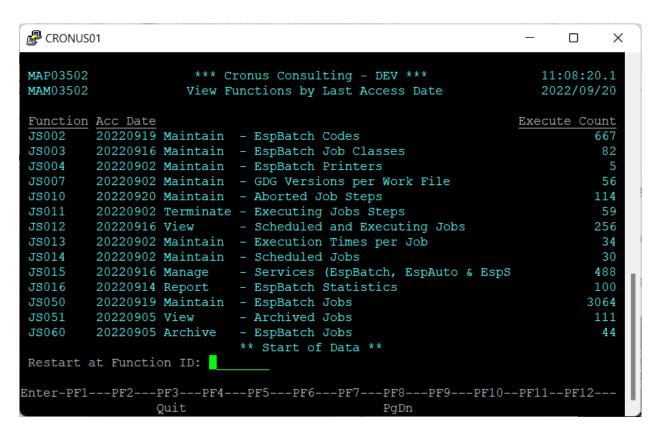


3.18 MA035 View - Functions by Access Date/Execute Count

This function provides audit access info per function. The number of times a given function has been executed and the last access date is displayed.

Upon function selection a window is displayed that allows the user to specify their sort preference:





The access date and execute count can be updated/reset with function MA003 Maintain - Functions.



3.19 MA036 View - Functions with invalid Program

This function displays all functions that execute a program that does not exist. The function must be run per library.

```
₽ CRONUS01
                                                                         ×
 MAP036
                       *** Cronus Consulting - DEV ***
                                                                     11:09:55.7
                          - Functions with invalid Program
MAM036
                  View
                                                                     2022/09/20
 FUSER Path: /opt/softwareag/Natural/fuser natd
 Library...: ESPSOFT_
 Function ID Name
                                                                Program
 ED001
             Demo Online to Batch submission
                                                                EDP001
                             *** End of Data ***
Restart at Function ID:
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
                  Quit
                                                PgDn
```

When a function is added using function **MA003 Maintain** – **Functions** the specified library/program is validated, if the program is subsequently deleted/renamed and the function is not deleted/corrected it will be picked up by this function.



3.20 MA037 View - Function Audit Trail

This function provides an audit trail consisting of the user id, date, and time that a function was executed.

Upon function selection a window is displayed that allows the user to specify their sort preference:

```
1. User ID, Function ID, Inverse Date & Inverse Time
2. Function ID, User ID, Inverse Date & Inverse Time

Sort Sequence: 2
```

```
×
                      *** Cronus Consulting - DEV ***
 MAP03702
                                                                   11:10:45.7
             Function Audit Trail by Function, User, Date & Tim
MAM03702
                                                                   2022/09/20
 Function User ID Description
                                                                      Time
                                                            Date
                  Maintain - EspBatch Codes
Maintain - EspBatch Codes
         APX712
                                                          20220907 12:45:13.3
 JS002
                                                          20220907 12:42:01.9
 JS002
         APX712
         ESPBATCH Maintain - EspBatch Codes
                                                          20220711 19:12:07.1
 JS002
 JS002
         ESPBATCH Maintain - EspBatch Codes
                                                          20220711 19:11:34.8
 JS002
         ESPBATCH Maintain - EspBatch Codes
                                                          20220711 19:04:57.7
         EY712
 JS002
                 Maintain - EspBatch Codes
                                                          20220919 16:15:31.9
 JS002
         EY712
                  Maintain - EspBatch Codes
                                                          20220919 16:15:04.0
 JS002
         EY712
                  Maintain - EspBatch Codes
                                                          20220916 09:17:58.7
 JS002
         EY712
                  Maintain - EspBatch Codes
                                                          20220915 18:11:50.0
         EY712
                  Maintain - EspBatch Codes
                                                          20220915 14:23:30.4
 JS002
                                                          20220915 12:56:07.6
 JS002
         EY712
                  Maintain - EspBatch Codes
                                                          20220915 11:58:16.9
 JS002
         EY712
                  Maintain - EspBatch Codes
                                                          20220915 10:55:33.8
 JS002
         EY712
                  Maintain - EspBatch Codes
 JS002
         EY712
                  Maintain - EspBatch Codes
                                                          20220915 10:06:08.9
                            ** Start of Data **
Restart at Function ID: User ID: Date: Time:
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                 Quit
```

The audit history can be deleted with function MA041 Delete - Function Access Audit Trail.



3.21 MA038 View - Function Tree Structure

This function displays menu tree that a specified function is linked to. If the function is omitted a list of valid functions will be displayed.

```
♣ CRONUS01

                                                                         ×
                       *** Cronus Consulting - DEV ***
 MAP038
                                                                     11:11:14.9
 8E0MAM
                     View
                              - Function Tree Structure
                                                                     2022/09/20
 *Function: CC050 Select Objects for Transfer
  Level Menu ID Description
                 ISR Transfer
        CC501
                 EspControl - Change Control System (I.S.R)
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
                  Quit
```



3.22 MA041 Delete - Function Access Audit Trail

This function allows for the deletion of function access audit trail history.

Deletion criteria:

• User/Group ID: Specify user/group id or leave blank to delete for all users/groups.

Function ID: Specify function id or leave blank to delete all function history.

Access Date: Specify access date to delete all history prior to and including the date

specified. Either "Access Date" or "Retention Days" must be specified.

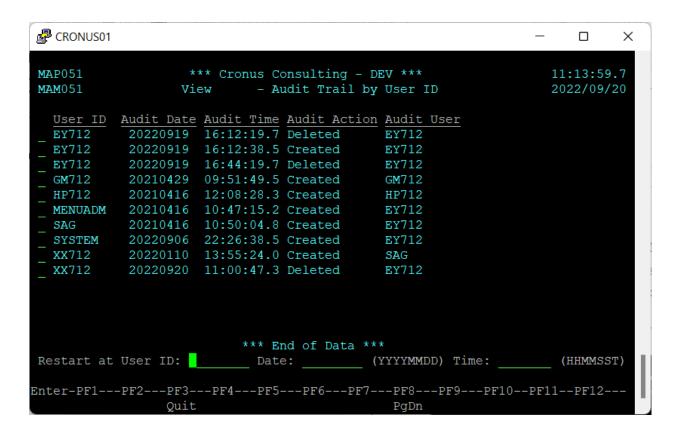
Retention Days: Specify the number of day's history to retain. Either "Access Date" or

"Retention Days" must be specified.



3.23 MA051 View - Audit Trail by User ID

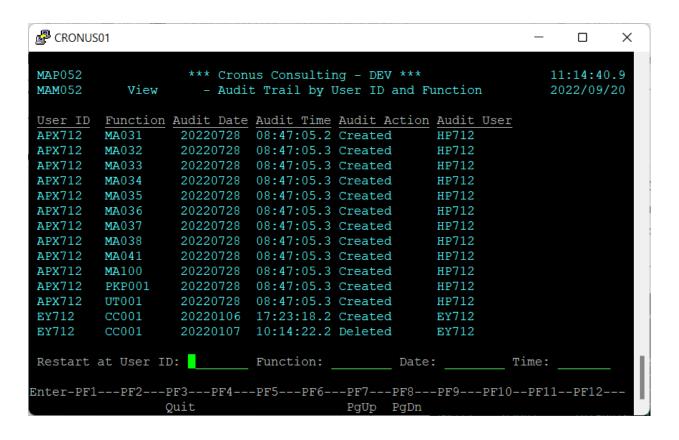
This function provides an audit trail of users/groups that were added, deleted, and suspended. The Audit User, Date, Time, and Action is provided.





3.24 MA052 View - Audit Trail by User ID and Function

This function provides an audit trail of function that were added or deleted for a user/group. The Audit User, Date, Time, and Action is provided.





3.25 MA100 Report - Functions linked to Users/Groups

This function produces a report of menus and functions that the specified user/group has access to.

The extract type determines whether the output is extracted to a comma delimited file, emailed, or printed.

```
CRONUS01
                                                                  Χ
MAP100
                   *** Cronus Consulting - DEV ***
                                                               11:15:13.2
MAM100
             Report - Functions linked to Users/Groups
                                                              2022/09/20
  Start - User/Group ID: ESPBATCH
  End - User/Group ID: ESPBATCH
  Extract Type..... E (C)sv, (E)mail or (R)eport
  Email Address....: info@cronus.co.za_
  Sub System....:
  File Name....:
  Default Printer....: PRT01
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Quit
```



3.26 MA101 Report - Audit Trail by User ID

This function provides an audit report of users/groups that were added, deleted, and suspended. The Audit User, Date, Time, and Action is provided.

The content of the audit report can be filtered by specifying values for the input fields provided.

```
X
 MAP101
                     *** Cronus Consulting - DEV ***
                                                                 11:16:26.7
 MAM10101
                   Report - Audit Trail by User ID
                                                                 2022/09/20
                 User ID....:
                                      (Blank for all)
                 Audit User ID: ESPBATCH (Blank for all)
                 Audit Action.:
                                        (Blank for all)
                                        (1 - Created)
                                        (2 - Deleted)
                                        (3 - Suspended)
                                        (4 - Re-Activated)
                 Start Date...: 20220101 (YYYYMMDD)
                 End Date....: 20220831 (YYYYMMDD)
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
```



3.27 MA102 Report - Audit Trail by User ID and Function

This function provides an audit report of function that were added or deleted for a user/group. The Audit User, Date, Time, and Action is provided.

The content of the audit report can be filtered by specifying values for the input fields provided.

```
X
 MAP102
                     *** Cronus Consulting - DEV ***
                                                                11:17:37.8
 MAM10201
             Report - Audit Trail by User ID and Function
                                                                2022/09/20
                                     (Blank for all)
                 User ID....:
                 Function ID..: JS300 (Blank for all)
                 Audit User ID:
                                       (Blank for all)
                 Audit Action.: _
                                        (Blank for all)
                                        (1 - Created)
                                        (2 - Deleted)
                 Start Date...: 20220101 (YYYYMMDD)
                 End Date....: 20220831 (YYYYMMDD)
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
```