

ARES Version 4.4.1



**Security and Access Control
Management System**

ARES

PROGRAMMING FUNCTIONS

UPDATED: JANUARY, 2000

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Disclaimer

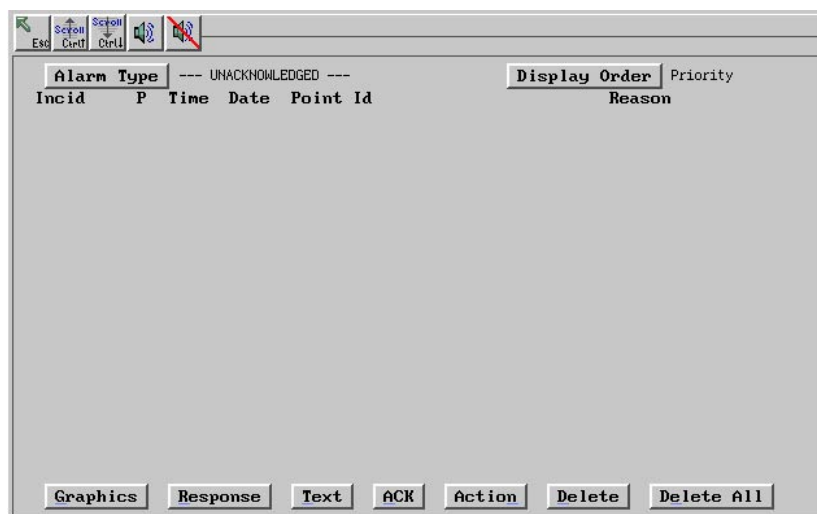
It is the responsibility of the customer to test and determine the suitability of this product for specific applications. In no event shall Tecom Systems be responsible or liable for any damage incurred by the buyer or any third party arising out of the use or inability to use the product.

Due to ongoing development the contents of this manual is subject to change without notice. All efforts have been made to ensure the accuracy of this manual. However, Tecom Systems can assume no responsibility for any errors or omissions in this manual or their consequences. Should any error be found, we would greatly appreciate being notified.

ALARMS MENU

 ARES tracks every single alarm generated through a three stage alarm response procedure. The alarms screen can be accessed by clicking on the alarm icon in any menu option, or clicking on the alarm icons which appear in the alarm bar across the top of the screen.

Alarms Main Screen



Alarm Handling

When an alarm first appears on the terminal, the operator clicks on the alarm bar and selects an alarm from the “unacknowledged” alarms list and generates a “response” by typing the response in, or by assigning a pre-programmed response to the alarm. Alternatively, if the alarm point is defined to a graphic map, the operator may jump to the dynamic graphics screen, where the alarm can be handled in a simple “point & click” environment, see Graphics Manual.

After responding to the alarm, the operator presses the **ACK** or “acknowledge” button. If the alarm point has reset or the alarm condition restored, the alarm is removed from the system. If the alarm has not been reset or restored, it is moved to the “Follow Up” screen.

Pressing the **Alarm Type** button allows the operator to quickly switch between the Unacknowledged and Follow Up screens. From the Follow Up screen the operator is able to monitor the alarm condition, view details of the alarm and response messages, and may enter additional responses as required. When the alarm point resets or the condition restores, the alarm is automatically removed from the Follow Up screen.

The Unacknowledged screen is always regarded as the 1st priority. When the operator switches to the Follow Up screen, a timer ensures that the system will revert back to the Unacknowledged screen if there is no keyboard or mouse activity. The timer is configurable. See **Administration/Configuration/Ares Config/Alarm Screen**.

The ARES Menu Structure allows the Alarms screen to be quickly accessed from any menu or sub-menu in the system. Regardless of what activity the operator is performing in the system, when the flashing red Alarm message appears in the top left hand corner of the screen, the operator can jump to the alarm screen immediately.

All alarm activity is stored in history and can be quickly reviewed via the Event Screen and included in reports.

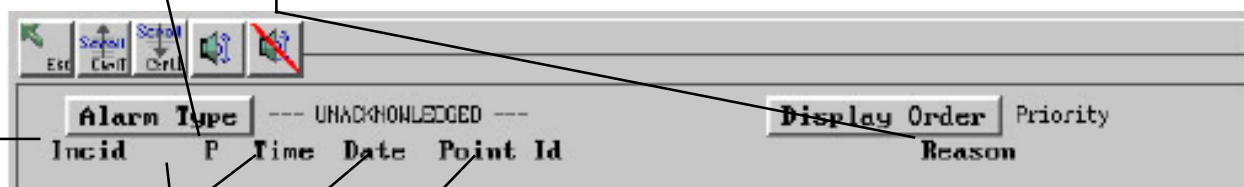
Alarm details are always displayed in the same order.

Alarm Details

Incident Number: Every Event generated in the ARES system is assigned a unique Incident number. Where several Events relate to a particular alarm, the same incident number will be assigned to all of those events.

Reason: The reason for the alarm condition.

Priority: The alarm priority set in the Challenger menu. Aids in responding to alarms according to the level of urgency.



Time: The time of day that the event was received or generated by the ARES system (the local time zone of the Operator Station).

Date: The date on which the event was received or generated by the ARES system (the local time zone of the Operator Station).

Point Id: The Identification text or description programmed for the point in alarm.

*** - Asterisk:** An Asterisk is shown if the alarm is new. Ie: it has received no operator response.

Alarm Screen Functions

All these functions can be accessed by clicking the left mouse button once on the icon.

Alarm Type:

Allows the operator to toggle between the Unacknowledged screen and the Follow Up screen. Note that the system will automatically return to the Unacknowledged screen if no operator activity is detected in the Follow Up screen.



Display Order:

Allows the operator to select whether alarms will be displayed in chronological time order or in order of priority. Default order is based on priority. (Select the 'T' key for time or 'P' for priority or use the mouse).

Alarm Responses



Graphics:

Will jump to Graphics if the selected point in alarm belongs to a map.

Response:

When an alarm appears in the alarms screen a response is the first step in clearing it from the system. Common responses to alarms can be pre-programmed and assigned an ID number and these responses can be accessed from the Response icon.

- Text:** This function is used for entering the alarm response text.
- ACK:** After assigning a response to an alarm, the operator uses the ACK button to acknowledge the alarm. When an alarm has been acknowledged it is moved to the Follow Up screen or it is removed if restored.
- Action:** The Action button will display suggested actions for the operator to follow.
- Delete:** The Delete button will remove the selected alarm from the alarm screen. This option is only available if included in an operator's access record. NOTE: This is not a recommended means of removing alarms.
- Delete All:** The Delete All button will remove all current alarms from the alarm screen. This option is only available if included in an operator's access record. NOTE: This is not a recommended means of removing alarms.

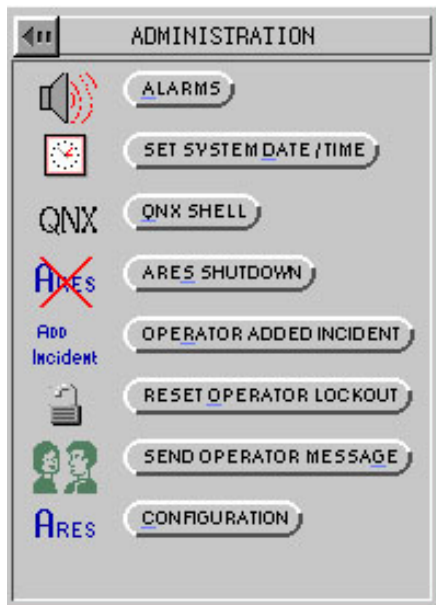


- Esc:** Clicking on this icon will exit the alarm screen.
- Scroll Up / Down:** If many alarms are being generated it may be necessary to scroll up and down pages of alarms.
- Alarm On/Off:** Toggles alarm sound on and off. If the sound is off for 5 minutes or longer the alarm sound will be automatically restored. This option is only available if included in the operator's access records.
- Sound Off:** Turns the sound off permanently. This option is only available if included in the operator's access records. Sound will be turned on when the operator logs back in.

Some alarms associated with users will allow extra buttons and screens to appear.

ADMINISTRATION MENU

This menu allows a system administrator to establish the way ARES works.



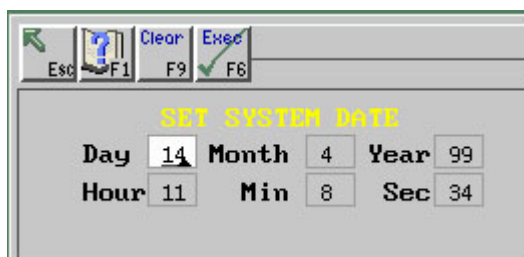
Set System Time/Date

The system will time and date stamp each event received, sent or generated. The ARES system uses the clock to track events for reports, user access time, relays, etc.

It is therefore important that the system clock is set to the correct time and date. Changing the time and date will automatically alter the time and date on all other nodes as well. It also affects the Challenger's date and time.

NOTE: The Time Zone location should be set first and the PC rebooted after a safe shutdown.

Set System Time/Date Screen



Steps:

- 1) Fill In the appropriate **Day, Month, Year, Hour, Min and Sec** in the corresponding fields and press enter.
- 2) Check the information is correct, click the **exec** icon or press **F6** to set the time and date.

QNX Shell

This function is for advanced system administration and should be used by qualified personnel only as it gives access to the QNX command line.

ARES Shutdown

Warning !! Shutdown is NOT the same as logging out.

This will completely shutdown the ARES Management System on the node currently being used. If node one is shut down, this will effectively shut down the entire ARES network.

Steps:

Select the ARES Shutdown icon from the Administration menu.

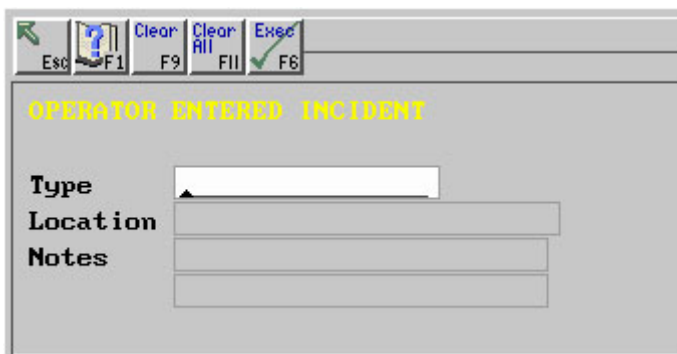
A screen is displayed prompting the Operator for a valid Login code/password combination (depending on ARES login configuration - card badge could also be used). This does not have to be the login code/password of the operator currently logged in.

A screen will appear for confirmation of ARES shutdown, click **Yes** icon to shutdown, or **No** to cancel shutdown.

Operator Added Incident

An operator can add events to the event log for reference.

Operator Added Incident Screen



OPERATOR ENTERED INCIDENT

Type

Location

Notes

Steps:

- 1) Select Administration / Operator Added Incident.
- 2) In the **Type** field enter a description of the type of incident.
- 3) In the **Location** field enter a description of the location in which the incident took place.
- 4) In the **Notes** field enter any further comments which may be relevant to the incident.

Reset Operator Lockout

This resets an operator's code after it has been locked out due to a number of unsuccessful attempts to login. The number of attempts is set up under the **Administration, Configuration, Login Attempts** menu.

Send Operator Message

Allows ARES operators to send messages to other nodes as long as there is an operator logged on. Enter the node Id to indicate where the message is going to be delivered. Leave it blank for all nodes.

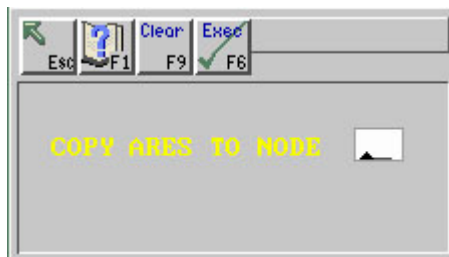
Configuration

Copy ARES to node

Once ARES is installed onto node 1, it can be copied to other nodes already connected to the network without the need to go through the installation process on each ARES node. This is the only way to install ARES onto other nodes. From this option an operator can select the number of the node to which ARES is to be copied.

NOTE: You are unable to copy to another node unless you are licensed for other nodes.

Copy ARES To Node Screen



Steps:

- 1) In the **Copy ARES To Node** field type in the number of the node that ARES will be copied to.
- 2) A QNX screen will open with details of where ARES is to be copied. To continue with the copy process press **enter**. The QNX screen will scroll all files being copied to the specified node. To cancel the copy process press **ctrl c** and return to the **Copy ARES To Node** screen.
- 3) Confirmation is required to copy the ARES sysinit file to the target node.
If this is the first time the target node has had ARES installed, then this file will need to be copied. Press **y** for yes or **n** for no, then press **enter**.
- 4) Confirmation is required to edit the sysinit file. Press **n** for no, **y** for yes if the hardware has changed.
- 5) The copying process is completed with the following text:
Standard ARES sysinit. _ will be used
Reboot Node _ to start ARES on that node.
Press enter to exit.

Press enter, the QNX shell will disappear leaving the **Copy ARES To Node** screen open.

Modify ARES License

When ARES is purchased a license is granted which allows for the features of the system such as number of points, Fox Id machines, CCTV and other security measures to work. Upgrading the ARES system requires a new license. From this menu an existing license can be easily updated from a prompt.

Modify ARES License Screen



Steps:

- 1) Select Administration / Configuration / Modify ARES License.
- 2) ARES prompts for the license disk, insert and click the **continue** icon or press **esc** to quit.
- 3) Once ARES reads and confirms the license disk a QNX shell will open.
- 4) If there is anything wrong with the disk, ARES will display an appropriate error message or confirm the license has been updated.

To cancel press **esc**.

Log In Attempts

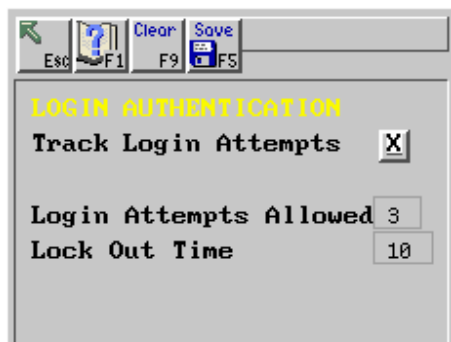
This enables the tracking of Operators when they log in. Once an operator has attempted to log in more than the number set for allowable attempts, that operator is 'Locked Out' until an administration operator resets that login code or the 'Lock Out' time expires.

Enabled - Select this field to enable the tracking of login attempts.

Attempts - Enter number of unsuccessful attempts allowed before the operator is locked out.

LockOut Time - Enter number of seconds for the lock-out time. Range is from 10 to 999.

Note: If 999 is entered, the operator's code will be locked out of the system until an administration operator 'Resets' the login code.



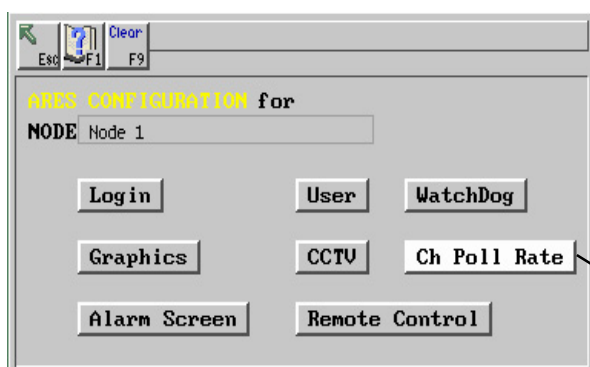
ARES Configuration

This is the main window for the ARES Configuration System. To gain access to the various options, it is first necessary to select a node.

Please remember that some of these options must be set to the same value on all nodes. ARES DOES NOT CHECK for consistency, except for minimum password length.

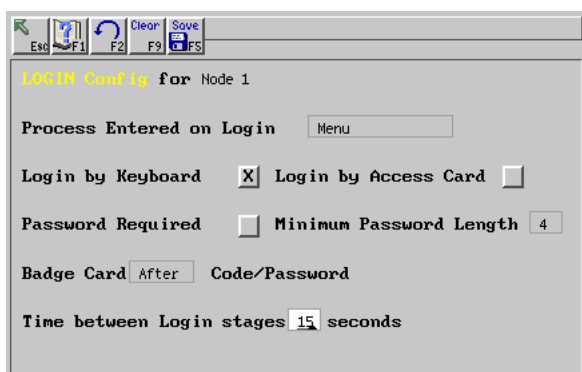
Double click on the appropriate button to bring up the configuration window for that option.

Node Id - Select the node Id you wish to configure.

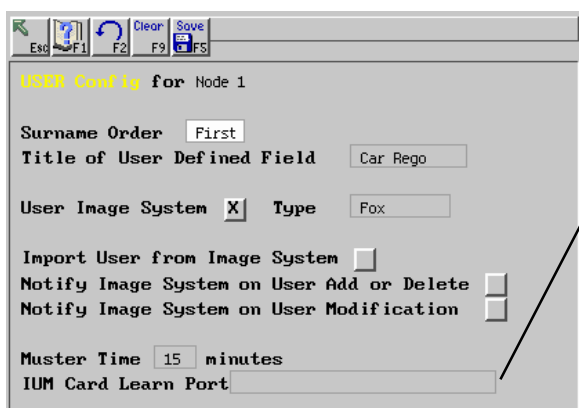


CHALLENGER POLL RATE:
For this option, please refer to online help for more information.

Login - Configure the ARES login for the node.

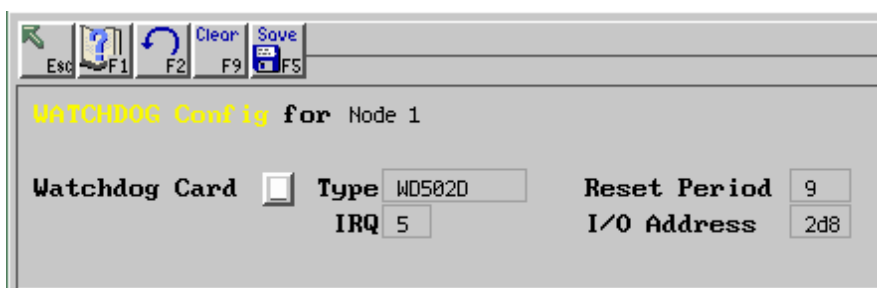


User - Configure the ARES users.



To program this, a serial Port must be programmed as a **Serial Other, 4800, None, 8 Bits 1 Stop Bit**. This is then allocated to this field. Now, connect a Tecom TS0862RAW and a TS0894. Refer to Appendix P - Card Reader Wiring, in the **Installation Guide**.

WatchDog - Configure the watchdog card.

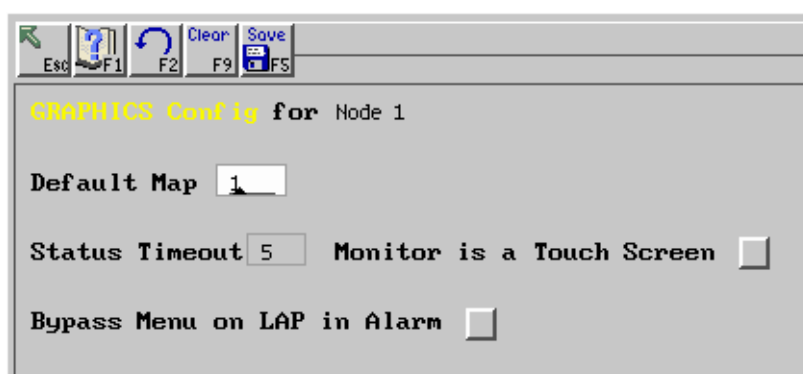


WATCHDOG Config for Node 1

Watchdog Card ☐ Type WD5020 Reset Period 9

IRQ 5 I/O Address 2d8

Graphics - Configure the graphics functionality.



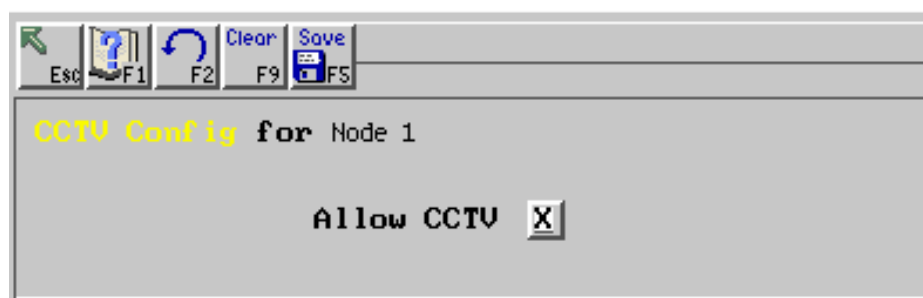
GRAPHICS Config for Node 1

Default Map 1

Status Timeout 5 Monitor is a Touch Screen ☐

Bypass Menu on LAP in Alarm ☐

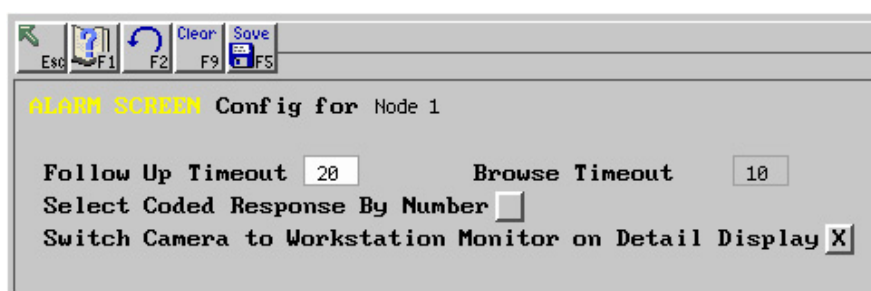
CCTV - Configure the CCTV functionality.



CCTV Config for Node 1

Allow CCTV ☒

Alarm Screen - Configure the Alarm Screen functionality.



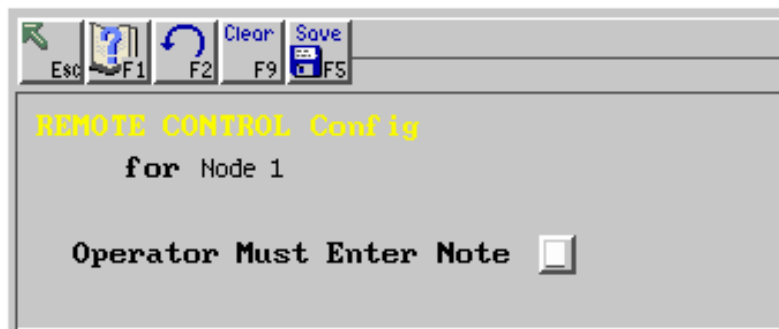
ALARM SCREEN Config for Node 1

Follow Up Timeout 20 Browse Timeout 10

Select Coded Response By Number ☐

Switch Camera to Workstation Monitor on Detail Display ☒

Remote Control - Configure the Remote Control functionality.



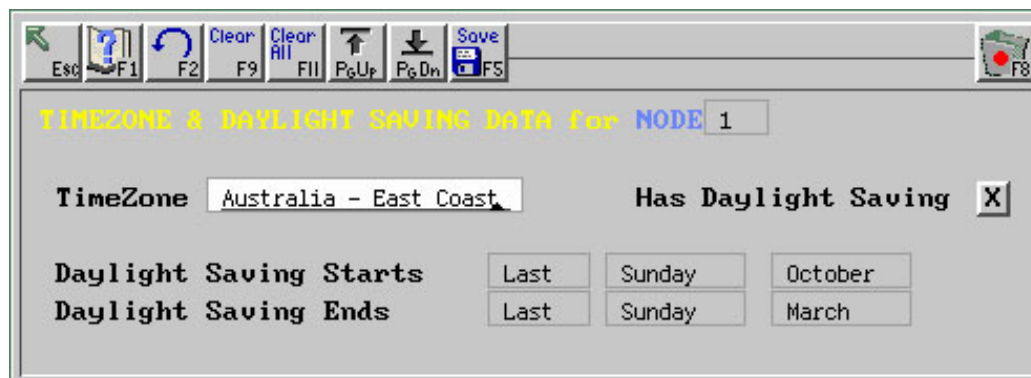
NOTE: Help is available for the functions on these screens by accessing the online Help menu.

Set Timezone Daylight Saving

This menu sets daylight saving dates for each **node**. Where daylight saving exists extra fields will appear. In these fields the dates for the start and end of daylight savings will be entered.

NOTE: Once this record has been saved, the PC **must** be rebooted for changes to take effect.

Set Timezone Daylight Saving Screen



With Daylight Saving

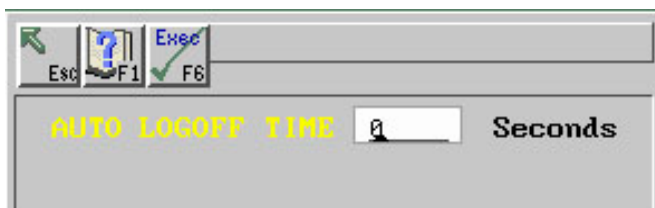
Steps:

- 1) In the **Node** field type the number of the desired node. The current node is selected by default.
- 2) In the **TimeZone** field click the right mouse button once or press **F4**. A search screen will open listing available time zone locations.
Select the appropriate timezone.
- 3) Check the **Has Daylight Saving** box only if your location has daylight saving.
- 4) Select the correct information for week, day of the week and month for both the **Start** and **End** of Daylight Saving. Check the information is correct, click the **save** icon or press **F5**.

Set Auto Log Off Time

The auto log off time is used to prevent any unauthorised use of ARES. If no activity (mouse clicks or keyboard entry) occurs for the time specified, the system will automatically logoff the operator and return to the login screen.

Set Auto Log Off Time Screen



Steps:

- 1) Select Administration / Configuration / Set Auto Logoff Time.
- 2) In the **Auto Logoff Time** field type in a seconds value, and press **enter**. The value entered must be 0 for No Auto Logoff or be between 300 seconds (5 minutes) to 32,767 seconds (546 minutes or 9 hrs, 6 minutes).
- 3) Check the information is correct, click the **exec** icon or press **F6**.

Some handy values:

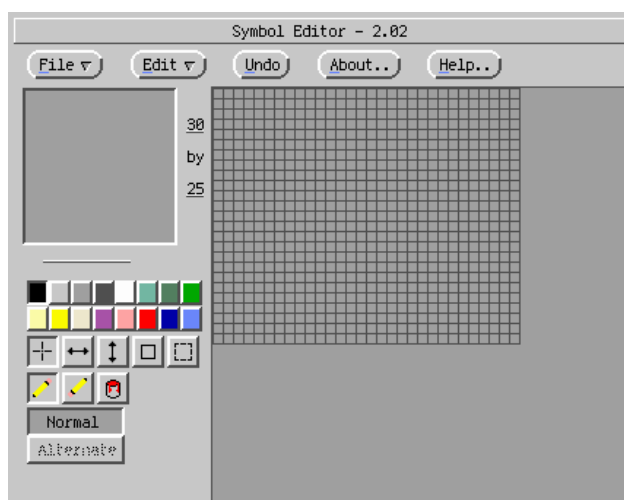
No Auto Logout:	0	30 minutes:	1800
10 minutes:	600	60 minutes:	3600
15 minutes:	900	2 hours:	7200

Screen Color

Allows an operator to change the background color of the screen, if access allows.

Icon Editor

See Online Help



ARES Speed bar Configuration

This option is used to customise the speed bar (short cut bar) on the top of the ARES screen. There are 2 types of icons that can be used.

Event Macro: This type activates an ARES 'Event Macro' which can trigger numerous devices. Refer to '**Event Triggering**'.

A Menu Item: This type brings up frequently used menus, saving the operator from navigating through numerous menus.

Note: After editing or adding an icon, the speed bar is not updated until the operator logs out and then back in. Some of the icons may not be present for all operators - depending on their access levels.

The speed bar is configured separately for each node.

Macro flags

If a macro function is required, check this box. If it is not set then the Number field relates to an ARES menu.

Macro/Menu Item Number

If the Macro box has been checked, then select the Event Macro required. If the Macro box is not set, select an ARES menu item.

Icon File

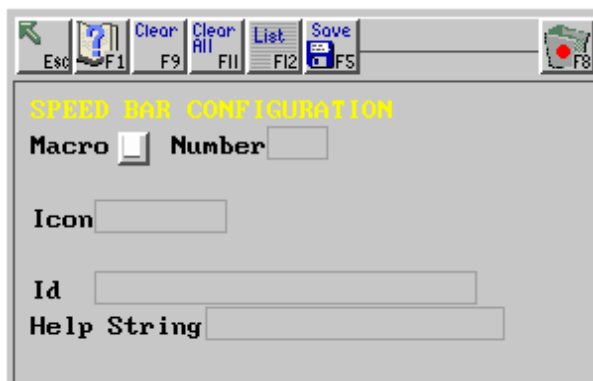
This contains the icon picture that will be displayed on the button in the speed bar. These icons can be created using the Icon editor under the **Administration, Configuration** menu.

Executable/Macro Id

This field cannot be edited or changed. It is automatically selected depending on the Macro number or Menu item selected.

Help Text

This is the hypertext that is displayed to an operator when their mouse moves over the chosen button on the speed bar.



Esc F1 F9 F11 F12 F5 F8

SPEED BAR CONFIGURATION

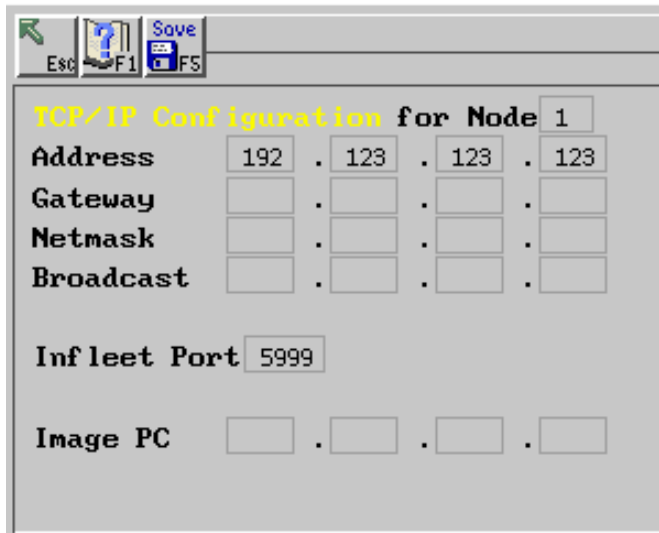
Macro ☐ Number

Icon

Id

Help String

TCP/IP Configuration



TCP/IP Configuration for Node 1

Address 192 . 123 . 123 . 123

Gateway . . .

Netmask . . .

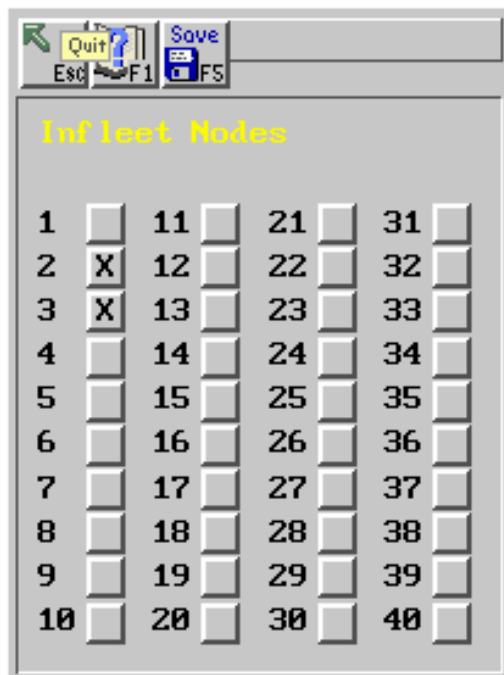
Broadcast . . .

Infleet Port 5999

Image PC . . .

Enter all the relevant IP addresses to suit your network. For more information on what the fields do, refer to the **Installation Guide - Section 3** in this manual. You may also require help from the site IT Administrator for the IP addresses and better understanding of the fields.

To tell this node which other nodes are communicating via TCP/IP, you must double left click (or **F3**) on the 'Infleet Port' field in the above form. This will now bring up another form shown below:

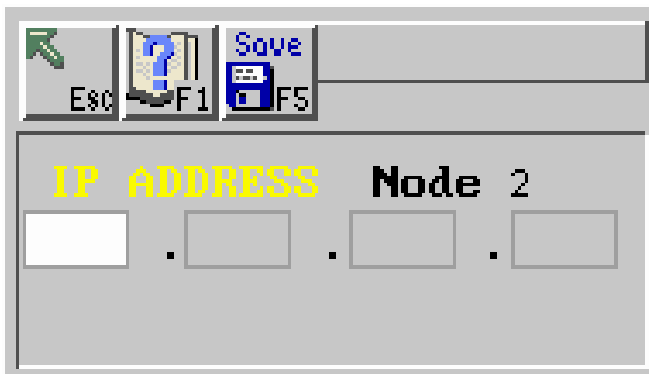


Infleet Nodes

1		11		21		31	
2	X	12		22		32	
3	X	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Check the boxes to reflect which nodes are communicating via TCP/IP. **DO NOT** check this node's box! For example, if this is node 3, do not check node 3's box! Once the boxes are checked, you now must enter the IP address for each of these nodes.

To do this, on each checked box (in turn) double left click (or **F3**) and another form will appear (see below) allowing you to insert the IP address for that node.



The screenshot shows a software window with a menu bar at the top containing three icons: a green arrow (labeled E80), a blue question mark (labeled F1), and a blue floppy disk (labeled Save F5). Below the menu bar, the text "IP ADDRESS" is displayed in yellow, and "Node 2" is displayed in black. Underneath, there are four empty rectangular input boxes arranged horizontally, separated by dots, for entering the IP address components.

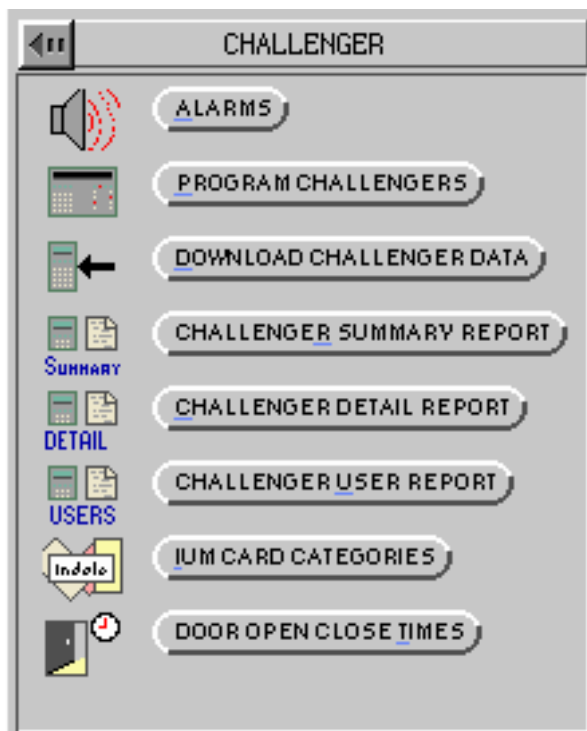
CHALLENGER MENU



Programming the Challenger for operation should be done by qualified staff only!

ARES provides all of the features associated with programming a Challenger from a remote arming station.

The following screens show each option in the Challenger menu and how to working with the screens in order to program the Challenger/s. Programming options will be familiar to installers with previous Challenger experience.



Program Challengers

On the following pages are the screens which the Administrator or Installer will use when programming the Challenger/s for system operation.

CHALLENGER PROGRAMMING SCREENS

CHALLENGER PROGRAMMING: Options Screen

Num & ID: F4 to perform a search for Challengers or enter an ID directly if known. F3 will open the Challenger Programming Options Screen, see following pages.

Location, Physical: Enter the Challenger location directly.

Location, Time Zone: F4 to perform a search for time zones or enter an ID directly if known.

Member: F4 to perform a search for members or enter an ID directly if known. F3 to create a new member. See Databases, Members Database, Members.

Direct Connect Port: entered when Challenger selected.

Dial Up Modem: entered when Challenger selected.

Maps: where this Challenger can be found on a map.

Intelligent User Module: If the Challenger is fitted with this option to allow 65,535 users, check this box.

Location, Computer Node: enter the node number directly.

Delete: current record

Save

Esc Help

CHALLENGER

Num 7 ID Challenger 7 Adelaide

Location

Physical

Computer Node 1

Location Tz Adelaide

Comms Type

Direct Serial

Port Rocket Port 7 Node 1

Backup Dialler

Intelligent User Module

Panel Linked X Panel Link System 1 Panel Link Address 0

Member Adelaide

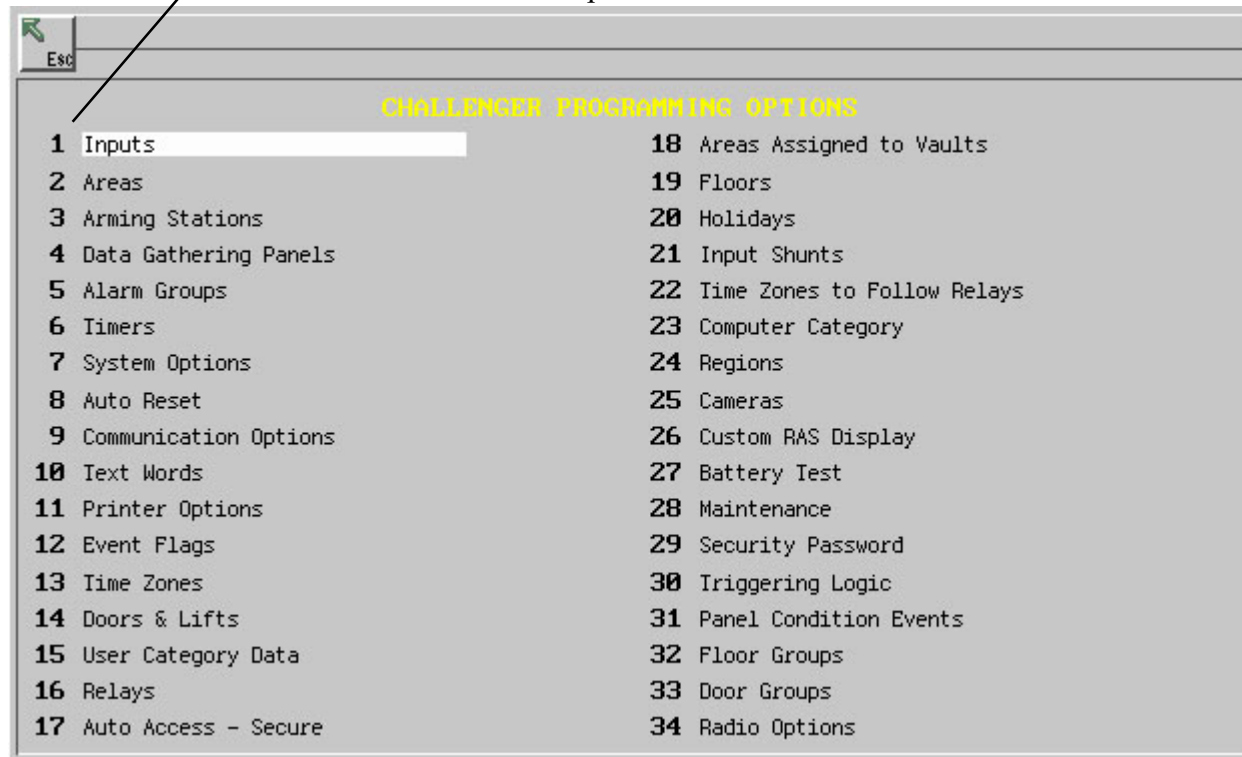
Maps 5021

Encrypted Comms

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 F13 F14 F15 F16 F17 F18 F19 F20 F21 F22 F23 F24 F25 F26 F27 F28 F29 F30 F31 F32 F33 F34 F35 F36 F37 F38 F39 F40 F41 F42 F43 F44 F45 F46 F47 F48 F49 F50 F51 F52 F53 F54 F55 F56 F57 F58 F59 F60 F61 F62 F63 F64 F65 F66 F67 F68 F69 F70 F71 F72 F73 F74 F75 F76 F77 F78 F79 F80 F81 F82 F83 F84 F85 F86 F87 F88 F89 F90 F91 F92 F93 F94 F95 F96 F97 F98 F99 F100

CHALLENGER PROGRAMMING: Options Screen

Programming Options 1-34: F3 will open the Challenger Programming Screen associated with the selected option. The following pages will discuss what each screen contains and how to program each option.



and 35 Panel Link (if applicable)

Challenger Programming Note: All of these options are available through the programming options on the Challenger, it should be noted that the order these options appear is different in the ARES sequence. Despite this, the programming operates in the same way. Reference to **The Challenger Version 8 Programming and Hardware Installation Guide** is highly recommended when approaching this task.

CHALLENGER PROGRAMMING: 1. Inputs

Input, ID & Description: **F4** to perform a search for inputs or enter an ID directly if known.

Name Icon: **F4** to perform a search for inputs or enter an ID directly if known. **F3** will open up an input name screen.

Type: **F4** to perform a search for input types or enter an ID directly if known.

Member: **F4** to perform a search for members or enter an ID directly if known. **F3** to create a new member. See Databases, Members Database, Members.

Word 1-4, Var 1-4: **F4** to perform a search for input names or enter an ID directly if known.

Computer Cat: **F4** to perform a search for computer categories or enter an ID directly if known. **F3** to create a new category. See 23. Computer Category

CCTV (if fitted): Will switch the Video Camera to the monitor programmed in the operation station and find camera preset if selected on graphic.

Areas Assigned, Event Flags, Print When Unsealed & Make Event Flags 24 Hr: all check boxes. Insert an X to confirm a choice.

Contact Id: **F4** to perform a search for inputs or enter an ID directly if known.

Event: **F4** to perform a search for events or enter an ID directly if known. **F3** to create a new event. See 12. Computer Category

Maps: where this input can be found on a map.

Help: **F4** to perform a search for help text. **F3** to create new help text.

CHALLENGER PROGRAMMING : 2.Areas

Area & ID: F4 to perform a search for areas or enter an ID directly if known.

Out of Hours TmZn: F4 to perform a search for Challenger Timezones or enter an ID directly if known. F3 to create a new timezone. See 22. Time Zones to Follow Relays.

Access Events to Siren Event: F4 to perform a search for events or enter an ID directly if known. F3 to create a new event. See 12. Event Flags.

Member: F4 to perform a search for members or enter an ID directly if known. F3 to create a new member. See Databases, Members Database, Members.

Computer Cat: F4 to perform a search for computer categories or enter an ID directly if known. F3 to create a new category. See 23. Computer Category.

Help: F4 to perform a search for help text. F3 to create new help text.

CCTV (if fitted): Will switch the Video Camera to the monitor programmed in the operation station and find camera preset if selected on graphic.

Download To Challenger: Download To Challenger

Add to a cluster: Add to a cluster

Save: Save

Delete: current record

Area Name: Download to Challenger for Reference.

Entry, Exit & Area Disarm: enter times directly.

Areas Linked To: areas 1-16 check boxes. Insert an X to confirm a choice.

Maps: where this can be found on a map.

Interface Elements: AREA, ID, Text, Out of Hours TmZn, Access Event, Unsealed, Isolate, Secure Alarm Event, Access Alarm Event, Local Alarm Event, Exit Event, Entry Event, Warning Timer Event, Camera Event, Pre Alarm Event, Siren Event, Video Cam, Member, Computer Cat, View, Maps, Help.

CHALLENGER PROGRAMMING : 3. Arming Station

Arming Station & ID: **F4** to perform a search for arming stations or enter an ID directly if known.

Area & Menu Alarm Group: **F4** to perform a search for alarm groups or enter an ID directly if known. **F3** to create a new alarm group. See 5. Alarm Groups.

Door Event: **F4** to perform a search for event flags or enter an ID directly if known. **F3** to create a new event flag. See 12. Event Flags.

Member: **F4** to perform a search for members or enter an ID directly if known. **F3** to create a new member. See Databases, Members Database, Members.

Computer Cat-Ras & Access: **F4** to perform a search for computer categories or enter an ID directly if known. **F3** to create a new category. See 23. Computer Category

Help: **F4** to perform a search for help text. **F3** to create new help text.

Polled: check box. Insert an X to confirm a choice.

Relay Group: enter directly.

Door Event for All Codes to Restricted User Category to Disarm: check boxes. Insert an X to confirm a choice.

Maps: where this can be found on a map.

Download To
Add to a cluster
Save
Desc: enter directly.
Delete: current record

Esc
Help

Arming Station **ID**
Desc
Area Alarm Group Ch1 Master RAS or Door
Menu Alarm Group Ch1 Master RAS or Door
Door Event
Door Event for All Codes
LCD Arming Station
One Key Arm/DisArm
Toggle Keyboard Control
Display Shunting On LCD
Reset from RAS without Code
Cards Auto Disarm
Card Always Arms/Disarms
ENTER Key Opens Door Only
Restricted User Category to Disarm
Video Camera
Video View
Member
Computer Cat-Ras Ras
Computer Cat-Access Door Access
Maps Help

CHALLENGER PROGRAMMING: 4. Data Gathering Panels

DGP & ID: F4 to perform a search for DGPs or enter an ID directly if known.

*Type: F4 for drop down options:
Standard DGP
Door Controller
Lift Controller*

Location: enter the location of the DGP.

Member: F4 to perform a search for members or enter an ID directly if known. F3 to create a new member. See Databases, Members Database, Members.

Computer Cat: F4 to perform a search for computer categories or enter an ID directly if known. F3 to create a new category. See 23. Computer Category

Help: F4 to perform a search for help text. F3 to create new help text.

Polled: check box. Insert an X to confirm a choice.

Maps: where this can be found on a map.

Download To Add to a Challenger cluster Save

Delete: current record

CHALLENGER PROGRAMMING : 5. Alarm Groups

Alarm Group: F4 to perform a search for alarm groups or enter an ID directly if known.

Download Text: F4 to perform a search for text words or enter directly if known. F3 to create new text. See 10. Text Words.

Areas: Areas 1-16 check boxes. Insert an X to confirm a choice.

All fields: check boxes. Insert an X to confirm a choice.

User Categories: See # 15 for more details.

AltGrp: F4 to perform a search for alternative alarm groups or enter ID directly if known. F3 to create a new alarm group. Same screen will open.

Esc

Help

Download To Challenger

Save

Delete: current record

Description: enter directly.

TmZn: F4 to perform a search for timezones or enter ID directly if known. F3 to create a new timezone. See 13. Time Zones.

Alt Grp

User Categories: See # 15 for more details.

Areas: Areas 1-16 check boxes. Insert an X to confirm a choice.

All fields: check boxes. Insert an X to confirm a choice.

CHALLENGER PROGRAMMING: 6. Timers

Esc

Help

Save

Esc

F1

F2

F3

F4

F5

F6

F7

F8

F9

F10

F11

F12

F13

F14

F15

F16

F17

F18

F19

F20

F21

F22

F23

F24

F25

F26

F27

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F29

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F78

F79

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F81

F82

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F84

F85

F86

F87

F88

F89

F90

F91

F92

F93

F94

F95

F96

F97

F98

F99

F100

TIMES

User Category 1		Access Test	15
User Category 2		Secure Test	15
User Category 3		Warning	5
User Category 4		Delayed Holdup	60
User Category 5		Local Alarm Reminder	
User Category 6		Service	60
User Category 7		Tester Event	15
User Category 8		Door Open	5
Individual Test	5	Mains Fail	
Suspicion	15	Siren	8

All Fields: enter times directly.

CHALLENGER PROGRAMMING: 8. Auto Reset

Esc

Help

Save

Esc

F1

F2

F3

F4

F5

F6

F7

F8

F9

F10

F11

F12

F13

F14

F15

F16

F17

F18

F19

F20

F21

F22

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F73

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F76

F77

F78

F79

F80

F81

F82

F83

F84

F85

F86

F87

F88

F89

F90

F91

F92

F93

F94

F95

F96

F97

F98

F99

F100

AUTO RESET

Time Before Alarm is Reset

0

Alarm Group to use

ID

Alarm Group to Use & Id: F4 to perform a search for alarm groups or enter ID directly if known. F3 to create a new alarm group. See 5. Alarm Groups.

Delete: current record

Time Before Alarm is Reset: enter time directly.

CHALLENGER PROGRAMMING: 7. System Options

Event Text: F4 to perform a search for text words or enter ID directly if known. F3 to create new text words. See 10. Text Words.

*Text Mode: F4 for drop down options:
No Test
Enable Auto Test
Manual Access/Auto
Second
Auto Access Test Only*

Areas to Total Disarm: areas 1-16 check boxes. Insert an X to confirm a choice.

Esc *Save*

Help

Relay Controllers to User Offset: enter text directly.

Time Before Display & Rotate Speed: enter text directly.

Tampers Activate Siren & Strobe to Display Alarms Instantly: check boxes. Insert an X to confirm a choice.

Latch System Alarms to Disable Auto Insert of Categories: check boxes. Insert an X to confirm a choice.

CHALLENGER PROGRAMMING: 9. Communications Options

Esc

Help

Save

Cct: type in Cct number directly.

Rpt: check boxes. Insert an X to confirm a choice.

Type: F4 for drop down options.

Test Call: F4 for drop down options.

PABX to Comp: enter numbers directly.

System, Network & Computer1, STU: enter text directly.

Hours & Min: enter time directly.

Encryption, Num Rings, Num Calls & Buff Size: enter values directly.

MultiBreak Alarms to Dial Events via onboard Modem: check boxes. Insert an X to confirm a choice.

Area	Cct	Rpt
1		<input checked="" type="checkbox"/>
2		<input type="checkbox"/>
3		<input type="checkbox"/>
4		<input type="checkbox"/>
5		<input type="checkbox"/>
6		<input type="checkbox"/>
7		<input type="checkbox"/>
8		<input type="checkbox"/>
9		<input type="checkbox"/>
10		<input type="checkbox"/>
11		<input type="checkbox"/>
12		<input type="checkbox"/>
13		<input type="checkbox"/>
14		<input type="checkbox"/>
15		<input type="checkbox"/>
16		<input type="checkbox"/>

PABX
Phone 1:
Phone 2:

Service F#
Callback:
Computer:

System: Network: Computer 1: STU:

Type: Disabled

Text Call: No Text Calls

Hour: Min:

Encryption 0: Num Rings 0: Num Calls 0: Buff Size 255

MultiBreak Alarms: ☐ Common Open-Close: ☐

MultiBreak Restorals: ☐ Isolates Root Trigger Dialler: ☐

500 Ohm Load: ☐ Enable Line Fault Monitor: ☐

Network Command: ☐ Default Answering Machine: ☐

Computer via Dialler: ☐

DTMP: ☒

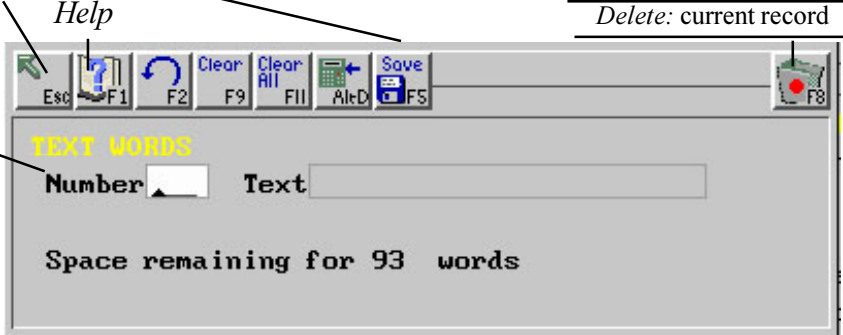
Dial Computer Alarms: ☐ Dial Computer Accesses: ☐

Dial Events via Port: ☐ Dial Events via onboard Modem: ☐

CHALLENGER PROGRAMMING : 10. Text Words

Esc *Help* *Save*

Number & Text: F4 to perform a search for text words or enter directly if known.



Delete: current record

Additional Space: when creating new text, additional space will become available.

CHALLENGER PROGRAMMING : 11. Printer Options

Esc *Help* *Save*

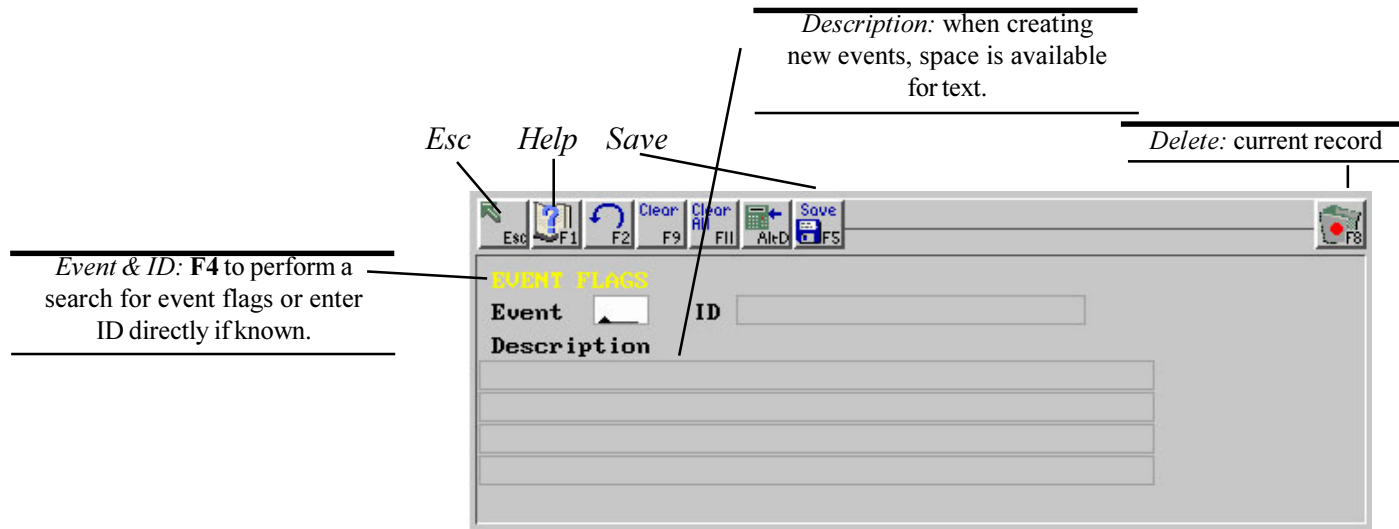
TimeZone: F4 to perform a search for timezones or enter ID directly if known. F3 to create a new timezone. See 13. Time Zones.



Real Time Printing to Dump Events Occuring Outside Timezone: check boxes. Insert an X to confirm a choice.

Type: F4 for drop down options.

CHALLENGER PROGRAMMING : 12. Event Flags



CHALLENGER PROGRAMMING : 13. Time Zones

Esc

Help

Save

TimeZones 1-25: Type a description of the time zone and press **F3** to create new time zone or press **F4** to select an existing one. See Databases, Timezones, Program Time Zones.

TIMEZONES

0 24 Hour

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25 Service In

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CHALLENGER PROGRAMMING: 14. Doors & Lifts

The screenshot shows the 'CHALLENGER PROGRAMMING' interface for '14. Doors & Lifts'. The interface includes a menu bar with 'Esc', 'Help', 'F1', 'F2', 'F9', 'F11', 'PgUp', 'PgDn', 'AltC', 'AltD', 'Save', and 'F8'. Below the menu bar are several input fields and buttons. The 'Id' field is at the top right. Below it are 'Description' and 'Location' fields. Further down are 'Video Camera', 'Video View', 'Member', and 'Computer Cat' fields. The 'Computer Cat' field is currently set to 'Door'. To the right of these fields are 'Help' and 'Maps' buttons. At the bottom right is a 'Lift' checkbox. The 'F8' button is located at the bottom right of the interface. Various annotations with lines pointing to specific elements provide instructions on how to use the interface.

Doors/Lifts & Id: **F4** to perform a search for doors/lifts or enter ID directly if known. Use **F3** to go into Door/Lift option.

Description & Location: **F3** to open up a series of screens which tailor the programming process.

Member: **F4** to perform a search for members or enter an ID directly if known. **F3** to create a new member. See Databases, Members Database, Members.

Computer Cat: **F4** to perform a search for computer categories or enter an ID directly if known. **F3** to create a new category. See 23. Computer Category

Help: **F4** to perform a search for help text. **F3** to create new help text.

Maps: where this can be found on a map.

Lift: check box. Insert an X to confirm a choice.

Delete: current record

Download To Challenger

Add to a cluster

Save

Esc

Help

F1

F2

F9

F11

PgUp

PgDn

AltC

AltD

Save

F8

CHALLENGER PROGRAMMING : 15. User Category Data

Esc *Help* *Save*

User Category: F4 to perform a search of computer categories or enter an ID directly if known. F3 to create new user computer category.

USER CATEGORY		TEXT WORD
1	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>
6	<input type="text"/>	<input type="text"/>
7	<input type="text"/>	<input type="text"/>
8	<input type="text"/>	<input type="text"/>

Text Words: enter directly.

CHALLENGER PROGRAMMING : 16. Relays

The screenshot displays the 'Relays' programming screen. At the top is a toolbar with icons for various functions: a green arrow (Esc), a question mark (F1), a circular arrow (F2), 'Clear All' (F9), 'Clear All' (F11), 'Record Up & Down' (PgUp), 'Record Up & Down' (PgDn), 'Add to a cluster' (AltC), 'Download To Challenger' (AltD), 'Save' (F5), and 'Delete: current record' (F8). The main form contains several fields: 'RELAY' (highlighted in yellow), 'ID', 'Mapped to Event', 'Id', 'Timezone', 'InActive During Timezone' (with a checkbox), 'Inverted' (with a checkbox), 'Member', 'Computer Cat' (with a dropdown menu showing 'Relay'), 'Maps', and 'Help'. Numerous callout boxes provide detailed instructions for each field and function key.

Relay & Id: F4 to perform a search for relays or enter ID directly if known.

Mapped to Event: F4 to perform a search for events or enter ID directly if known. F3 to create a new event. See 12. Event Flags.

Member: F4 to perform a search for members or enter an ID directly if known. F3 to create a new member. See Databases, Members Database, Members.

Computer Cat: F4 to perform a search for computer categories or enter an ID directly if known. F3 to create a new category. See 23. Computer Category

Help: F4 to perform a search for help text. F3 to create new help text.

Maps: where this relay can be found on a map.

InActive During TmZn & Inverted: check box. Insert an X to confirm a choice.

Timezone: F4 to perform a search for timezones or enter ID directly if known. F3 to create a new time zone. See 22. Time Zones to Follow Relay.

Record Up & Down: PgUp, PgDn

Add to a cluster: AltC

Download To Challenger: AltD

Save: F5

Delete: current record: F8

CHALLENGER PROGRAMMING : 17. Auto Access - Secure

The screenshot displays a software interface for programming a Challenger device. At the top, there is a menu bar with three buttons: *Esc*, *Help*, and *Save*. Below the menu bar, the main area is divided into two columns: *Time Zone* and *Alarm Group*. The *Time Zone* column has a list of numbers from 1 to 16. The *Alarm Group* column has a list of numbers from 1 to 16. A line points from the *Timezone* text to the first row of the *Time Zone* column. Another line points from the *Alarm Group* text to the first row of the *Alarm Group* column.

Timezone: Timezone the Challenger uses for Auto Access/ Secure.

Alarm Group to use & ID: **F4** to perform a search for alarm groups or enter ID directly if known. **F3** to create a new alarm group. See 5. Alarm Groups.

CHALLENGER PROGRAMMING : 18.Areas Assigned to Vaults

Esc *Help* *Save*

Esc F1 F2 Alt-D Save FS

AREAS ASSIGNED TO VAULTS

1	<input type="checkbox"/>	Ch1 Area 1 Zones 1 - 2
2	<input type="checkbox"/>	Ch1 Area 2 Zones 2 - 3
3	<input type="checkbox"/>	Ch1 Area 3 Zones 3 - 4 - 5
4	<input type="checkbox"/>	Ch1 Area 4 Zones 6 - 7 - 8
5	<input type="checkbox"/>	Ch1 Area 5 Zones 9-10-11-12
6	<input type="checkbox"/>	Ch1 Area 6 GateHouse
7	<input type="checkbox"/>	Ch1 Area 7 Admininstration
8	<input type="checkbox"/>	
9	<input type="checkbox"/>	
10	<input type="checkbox"/>	
11	<input type="checkbox"/>	
12	<input type="checkbox"/>	
13	<input type="checkbox"/>	
14	<input type="checkbox"/>	
15	<input type="checkbox"/>	
16	<input type="checkbox"/>	

*Areas Assigned to
Vaults: areas 1-16 check
boxes. Insert an X to
confirm a choice.*

CHALLENGER PROGRAMMING : 19. Floors

Floor & ID: F4 to perform a search for floors or enter ID directly if known.

Record Up & Down

Delete: current record

Save

Description: directly type a description of the floor.

Member: F4 to perform a search for members or enter an ID directly if known. F3 to create a new member. See Databases, Members Database, Members.

CHALLENGER PROGRAMMING : 20. Holidays

Esc

Help

Save

Holidays 1-24: F4 to perform a search for holidays or enter an ID directly if known. F3 to create a new holiday. See Databases, Holidays.

HOLIDAYS

1	New Years Day
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

CHALLENGER PROGRAMMING : 21. Input Shunts

Input Shunt & Id: F4 to perform a search for shunts or enter directly ID if known.

Desc: directly type a description of the shunt.

Relay: F4 to perform a search for relays or enter an ID directly if known. F3 to create a relay. See 16. Relays.

Shunt Event: F4 to perform a search for events or enter an ID directly if known. F3 to create an event. See 12. Event Flags.

Door Command Starts Shunt to Shunt in Secure: check boxes. Insert an X to confirm a choice.

Shunt Input: F4 to perform a search for shunt inputs or enter an ID directly if known. F3 to create a new input. See 1.

Shunted Time: directly type a time.

Warning Time: directly type a time.

Event Warning: F4 to perform a search for events or enter an ID directly if known. F3 to create an event. See 12. Event Flags.

Record Up & Down

Download To Challenger

Save

Delete: current record

Esc

Help

F1

F2

F9

F11

PgUp

PgDn

AltD

Save

F5

INPUT SHUNT

Id

Desc

Shunted Input

Relay

Shunt Event

Warning Event

Door Command Starts Shunt

Cancel Door Event

Entry/Exit Shunting

Shunt In Access

Hold Door Event

Report Open/Close

Shunt In Secure

Shunt Time

Warning Time

CHALLENGER PROGRAMMING : 22. Time Zones to Follow Relays

Esc

Help

Save

Esc

F1

F2

F9

AltD

Save

F5

TIMEZONE TO FOLLOW RELAY

26

Panel 3 Relay 2

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

Time Zones to Follow Relay: **F4**

to perform a search for time zones

or enter an ID directly if known.

F3 to create a new timezone. See

13. Time Zones.

CHALLENGER PROGRAMMING: 23. Computer Categories

Computer Categories: F4 to perform a search for categories or enter an ID directly if known.

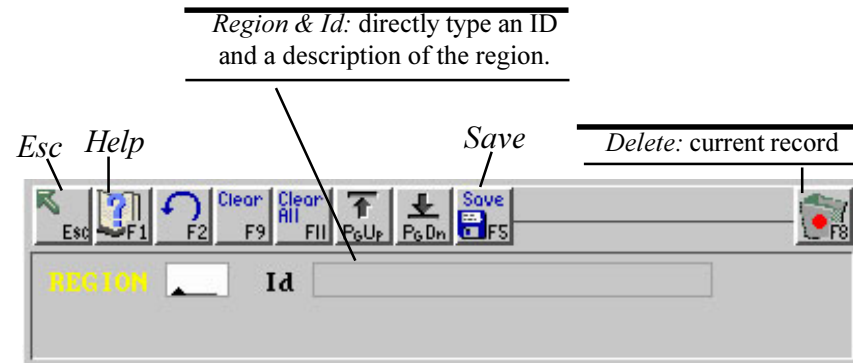
Desc: directly type a description of the category.

Record Up & Down

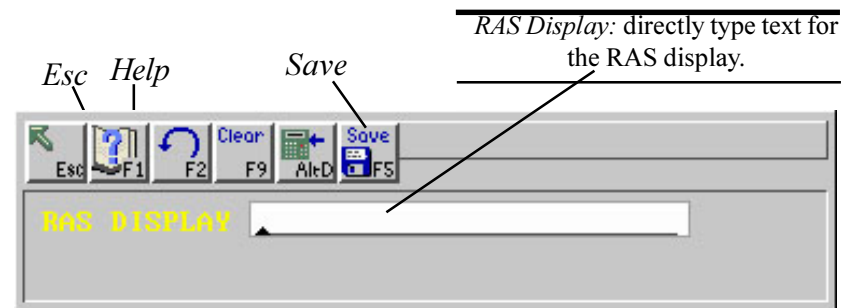
Delete: current record

Modifying Categories: for a comprehensive breakdown of how to create and modify a computer category, see Programming Functions, Databases Menu, Computer Categories.

CHALLENGER PROGRAMMING : 24. Regions



CHALLENGER PROGRAMMING : 26. Custom RAS Display



CHALLENGER PROGRAMMING: 25. Cameras

The screenshot shows a software interface for managing cameras. It features a menu bar with icons for Esc, Help (F1), a circular arrow (F2), Clear (F9), Clear All (F11), PgUp, PgDn, Alt-D, Save (F5), and a map icon (F8). Below the menu bar are several input fields: CAMERA ID, Location, Member, Computer Cat (with 'Camera' entered), Maps, and Help. Annotations with lines pointing to specific elements provide detailed instructions for each field and function key.

Camera & Id: F4 to perform a search for cameras or enter an ID directly if known.

Location: type directly a location of Camera.

Member: F4 to perform a search for members or enter an ID directly if known. F3 to create a new member. See Databases, Members Database, Members.

Computer Cat: F4 to perform a search for computer categories or enter an ID directly if known. F3 to create a new category. See 23. Computer Category

Maps: where this can be found on a map.

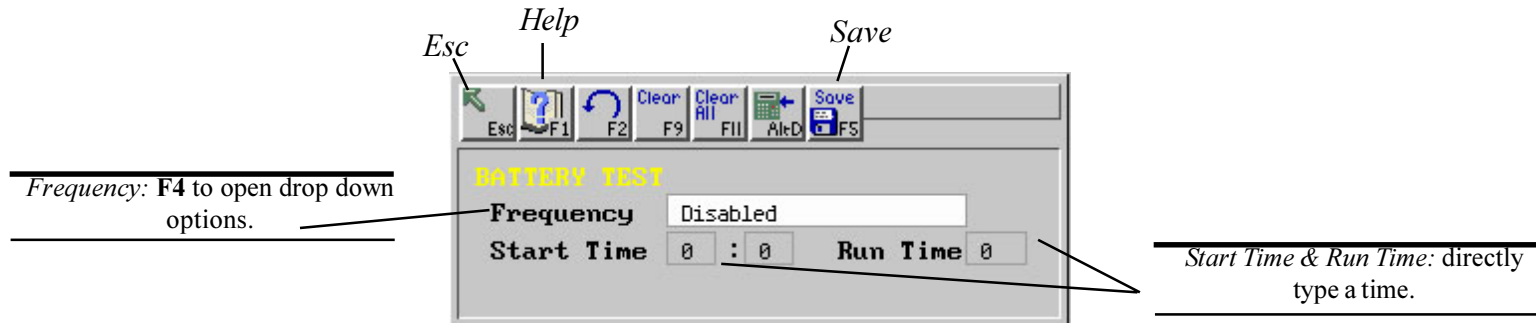
Help: F4 to perform a search for help text. F3 to create new help text.

Record Up & Down: (Annotated to the PgUp/PgDn keys)

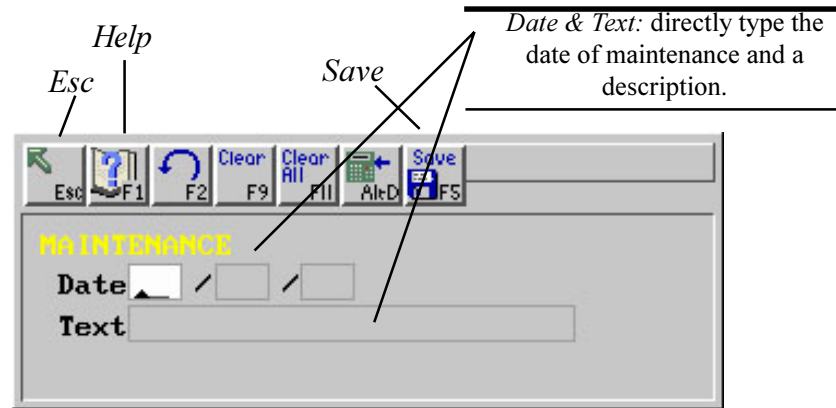
Save: (Annotated to the Save/F5 key)

Delete: current record: (Annotated to the map icon/F8 key)

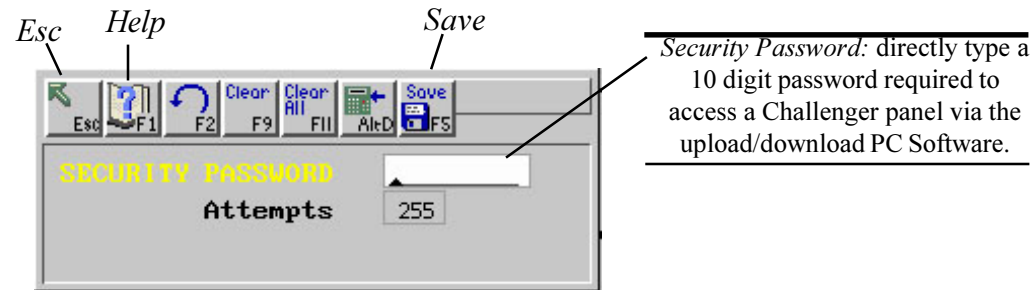
CHALLENGER PROGRAMMING : 27. Battery Test



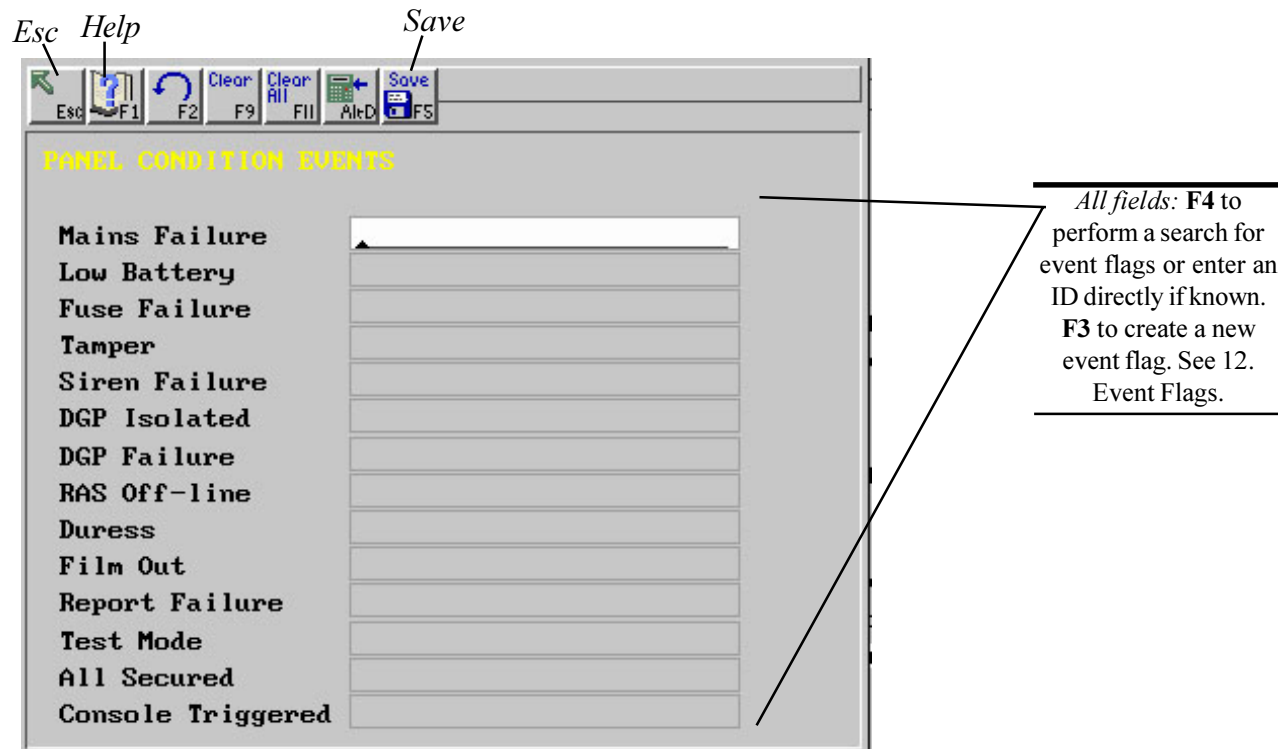
CHALLENGER PROGRAMMING : 28. Maintenance



CHALLENGER PROGRAMMING : 29. Security Password



CHALLENGER PROGRAMMING : 31. Panel Condition Events



CHALLENGER PROGRAMMING : 30. Triggering Logic

Desc: directly type a description.

Type: F4 for drop down options menu.

Type Field 1: F4 for drop down options menu dependant on the first choice.

Type Field 2: F4 for drop down options menu dependant on the previous choices.

Triggering Logic Num & ID: F4 to perform a search for triggering logic or enter an ID directly if known.

Delete: current record

Esc Help

Save

Esc F1 F2 F9 F11 PgUp PgDn Save F5

TRIGGERING LOGIC

Num Id

Desc

Type Disable

Activate

WHEN

Event

OR

Event

OR

Event

OR

Event

Active

Active

Active

Active

When Field 1: F4 for drop down options menu.

When Field 2: F4 to perform a search for event or input. F3 to create a new input or event. See 1. Inputs or 12. Event Flags.

When Field 3: F4 for drop down options menu.

Type Field 3: F4 to perform a search for event or input. F3 to create a new input or event. See 1. Inputs or 12. Event Flags.

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Page: 160

CHALLENGER PROGRAMMING : 34. Radio Options

Esc *Help* *Save*

Esc F1 F2 F9 F11 Alt-D F5

RADIO OPTIONS

Radio Enabled ☐

Report via Panel Link Radio ☐

Event Type Contact Point ID

Radio Id 0

Session Id

Range Loss Time 0

System Account 0

Area Cct

1	0	9	0
2	0	10	0
3	0	11	0
4	0	12	0
5	0	13	0
6	0	14	0
7	0	15	0
8	0	16	-256

Radio Enable: check box. Insert an X to confirm a choice.

Event Type: F4 to open drop down options menu.

Radio Id, Session Id, Range Loss Time and System Account: directly type in relevant information.

Areas 1-16 Cct: enter Cct information directly.

CHALLENGER PROGRAMMING : 35. Panel Link

Common Area: will auto arm when all of the associated linked areas are armed.

Poll: Which Panel Link Challengers are linked together.

Poll	Ch	Id	Pr
<input checked="" type="checkbox"/>	0	7	
<input checked="" type="checkbox"/>	1	8	
<input type="checkbox"/>	2		
<input type="checkbox"/>	3		
<input type="checkbox"/>	4		
<input type="checkbox"/>	5		
<input type="checkbox"/>	6		
<input type="checkbox"/>	7		
<input type="checkbox"/>	8		
<input type="checkbox"/>	9		
<input type="checkbox"/>	10		
<input type="checkbox"/>	11		
<input type="checkbox"/>	12		
<input type="checkbox"/>	13		
<input type="checkbox"/>	14		
<input type="checkbox"/>	15		

Redirect Ptr: Send Challenger Printer events to Panel 0.

Computer via Port B: If Ares is connected to Port B on this Challenger, check this box.

Enable PL Sys: Select this option if you want this panel to report all system alarms.

Panel Link Challenger Numbers.

Ares Challenger Numbers

Ares Challenger IDs.

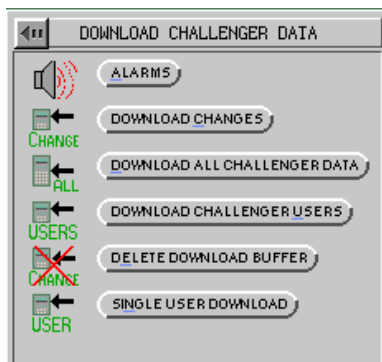
Redundancy Reporting: Priority for the Panel Link Challengers.

Relay Mapping: Ties in with 'Event Mapping' and allows Panel Link Relays to be mapped across the Panel Link Challengers. Up to 16 available.

Event Mapping: Allows to activate events across Panel Link Challengers. Up to 16 available.

CHALLENGER MENU - DOWNLOAD CHALLENGER DATA

Downloading information to Challenger panels is easy with ARES. Data can be downloaded in three forms: changes, users only, or all data. Download Changes is used for Dialler Connected Challengers.

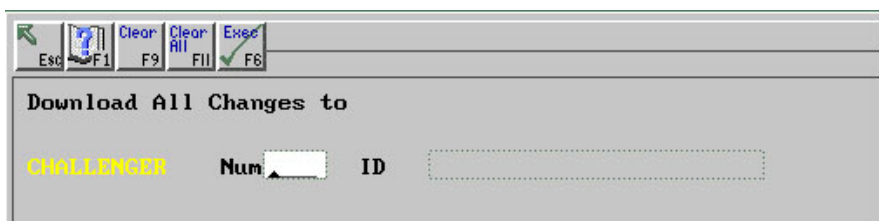


Download Changes

Download Changes is only required if the Challenger is not permanently connected to ARES. That is; a Dialler Connected Challenger. And all Challenger data that has been modified or added will be kept in the Download Buffer.

In the case of Direct/TCPIP connected Challengers, the data is automatically downloaded to the Challenger. However, if the Challenger is Dialler Connected, data kept in the Buffer will not be downloaded to the Challenger until this function is performed, or the Challenger dials in, or a Remote Control function is performed on the Challenger.

Download Changes Screen



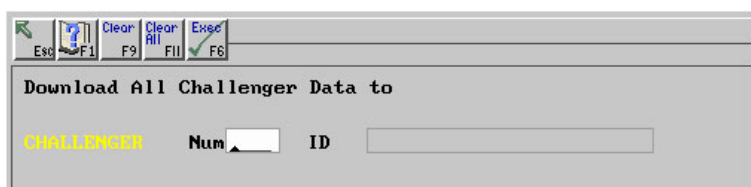
Steps:

- 1) Select the Challenger, press **F6** or click the **Exec** button.
- 2) To execute the download, click the **exec** icon or press **F6** to download the information.

Download All Challenger Data

Downloading all Challenger data means that whatever exists in the database of the target Challenger will be written over and replaced by the new information. This will be required when a Challenger has lost all of its data or is replaced by a new panel.

Download All Screen



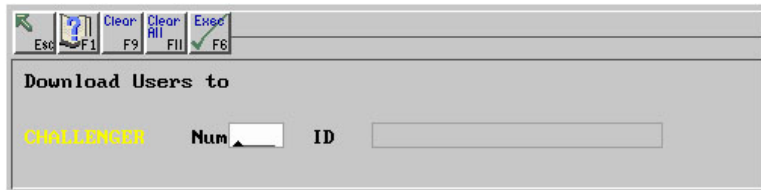
Steps:

- 1) Select the appropriate Challenger.
- 2) To execute the download, click the **exec** icon or press **F6** to download the information.

Download Challenger Users

Downloads user records to a Challenger.

Download Challenger Users Screen



Steps:

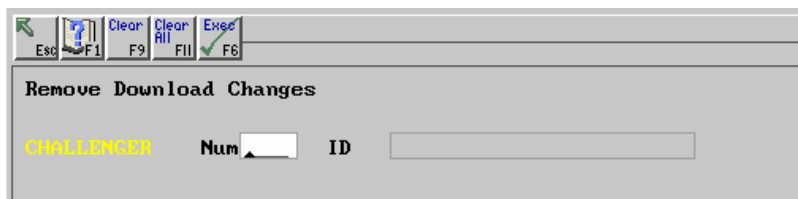
- 1) Select the appropriate Challenger.
- 2) Click the **exec** icon or press **F6** to download the information.

Delete Download Buffer

This function allows you to delete all data that is waiting to be downloaded into a Challenger. This can be specifically useful for dial up Challengers. It can also come in handy for direct connect Challengers - but only if they are offline.

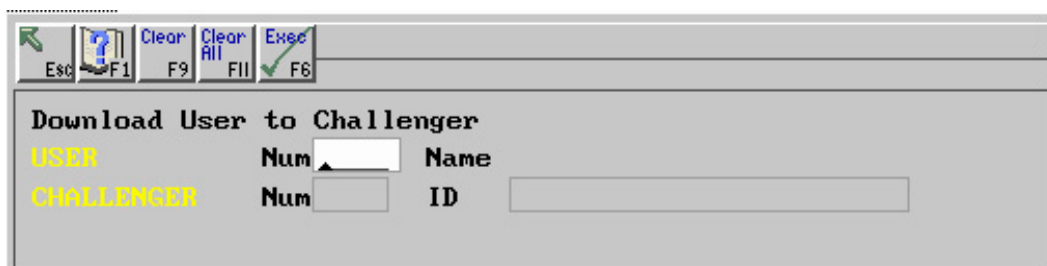
Select a Challenger by its Number or ID. Press **F6** to delete the data ARES is holding in its download buffer.

Download Buffer Screen



Single User Download

This option will download one user to one specific Challenger. It is useful for Challengers that are connected as a 'dialler' and not direct connection. Select a User and a Challenger, then **Execute (F6)** the download. A User and Challenger must be selected.

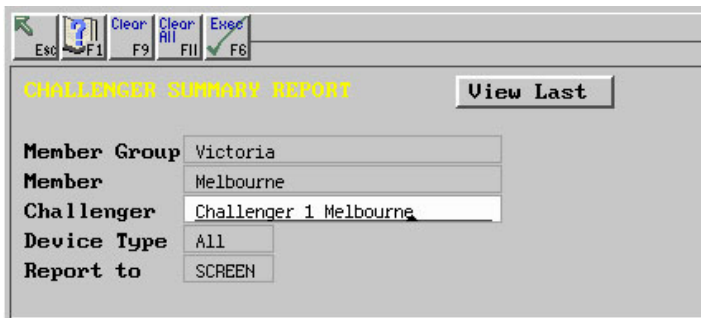


CHALLENGER MENU - CHALLENGER REPORTS

Challenger Summary Report

This report lists the number and ID of inputs, doors, areas, RASs, DGPs and relays assigned to a selected Challenger in the Device Type field. Using the Right Mouse Button in the Device Type Field will bring the following choices:

The report may be: all Challengers, selected Challengers, all Challengers belonging to a Member Group or Member.



Steps:

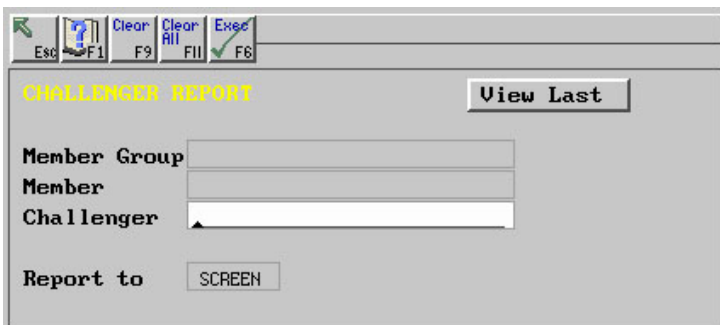
- 1) Select Challenger if required. Or:
- 2) Select Member Group if required. Or:
- 3) Select Member if required. (Member or Member Group is not required if Challenger is selected.)
- 4) Select Device Type
- 5) Select Report Destination.
- 6) Press **F6** or click **exec** button to generate the report.

Note: Leaving all fields blank will produce the complete report on all Challengers and all devices.

Challenger Detail Report

Challengers can be selected from a member group or member. This report will contain information about the selected Challengers, giving full details unlike the previous report.

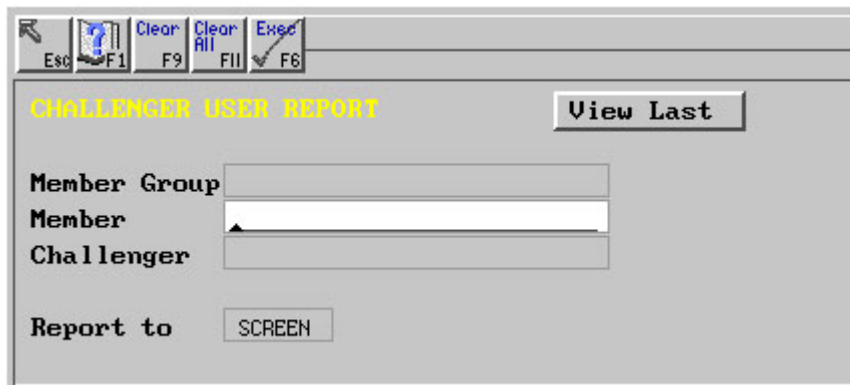
Challenger Detail Report Screen



Challenger User Report

This report lists users programmed to a Challenger(s). Users can be selected from a member group or member. Details on floor, door and alarm groups, User Id numbers and text are available. Challengers can be selected by Member Group, Member or individually.

Challenger User Report Screen



The screenshot shows the 'CHALLENGER USER REPORT' screen. At the top, there is a toolbar with icons for navigation and function keys (Esc, F1, F2, F9, F11, F6). Below the toolbar, the title 'CHALLENGER USER REPORT' is displayed in yellow. To the right of the title is a 'View Last' button. The main area contains three input fields: 'Member Group', 'Member', and 'Challenger'. Below these fields is a 'Report to' label and a 'SCREEN' button.

Steps:

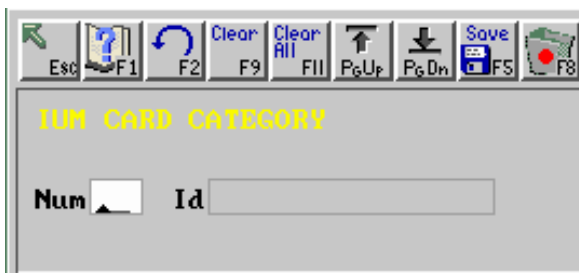
- 1) Select Challenger if required. Or:
- 2) Select Member Group if required. Or:
- 3) Select Member if required. (Member or Member Group is not required if Challenger is selected.)
- 4) Select Device Type
- 5) Select Report Destination.
- 6) Press **F6** or click **exec** button to generate the report.

IUM Card Categories

These card category records are only associated with IUM (Intelligent User Module) enabled Challengers. ARES supports up to 50 IUM Card Categories and each Challenger can only have 1 IUM card category. See **User (Card) Maintenance**.

Num - Card category number which is used to identify each category of access card(s).

Id - The Id of the card category.



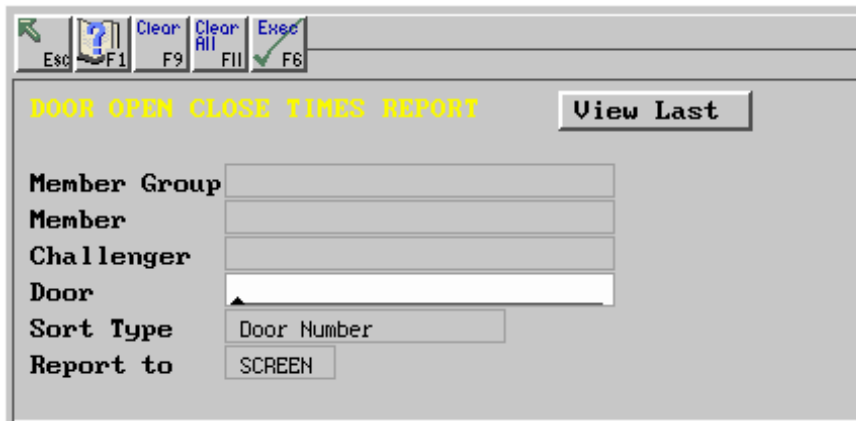
The screenshot shows the 'IUM CARD CATEGORY' screen. At the top, there is a toolbar with icons for navigation and function keys (Esc, F1, F2, F9, F11, PgUp, PgDn, Save, F5, F8). Below the toolbar, the title 'IUM CARD CATEGORY' is displayed in yellow. The main area contains two input fields: 'Num' and 'Id'.

Door Open Close Times

This report shows the automatic lock and unlock times for doors (17 to 64) in each Challenger. This is effectively the 'Override Timezone' in the door's 'Access Options'. It is designed to give an easy view of the times when the door becomes unlocked.

- MEMBER GROUP** - To restrict the report to doors belonging to a specific member group.
- MEMBER** - To restrict the report to doors belonging to a specific member.
- CHALLENGER** - To restrict the report to doors belonging to a specific Challenger.
- DOOR** - For a report on a specific door.
- SORTTYPE** - The report will be sorted in the order selected. Note that "Door Number" implies Challenger door number.

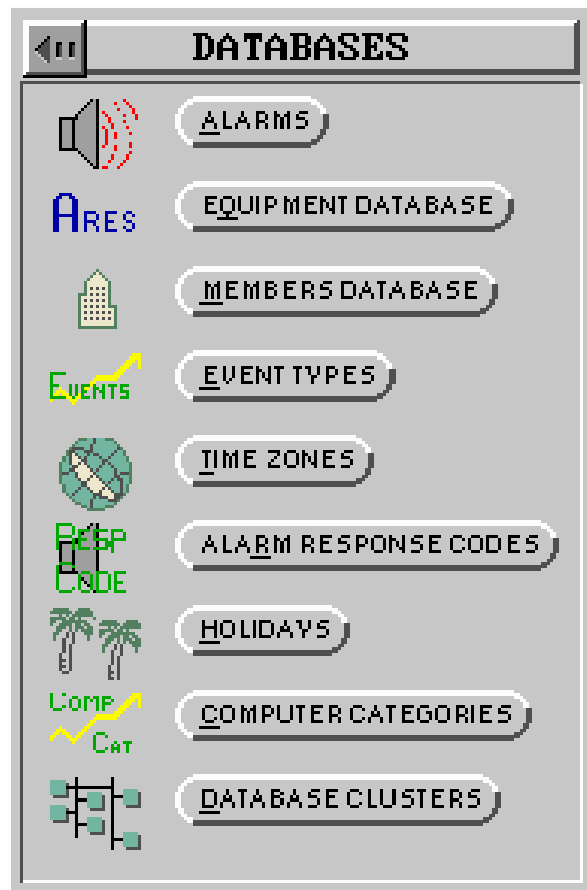
Note: If the last report was printed, it will have been removed by ARES and is therefore no longer available for viewing.



The screenshot shows a software interface for generating a report. At the top, there is a toolbar with buttons: a back arrow, a question mark, 'Clear' (F9), 'Clear All' (F11), and 'Exec' (F6). Below the toolbar, the title 'DOOR OPEN CLOSE TIMES REPORT' is displayed in yellow text, followed by a 'View Last' button. The main area contains several input fields and a dropdown menu:

- Member Group:** A text input field.
- Member:** A text input field.
- Challenger:** A text input field.
- Door:** A text input field with a small upward arrow icon on the left.
- Sort Type:** A dropdown menu currently showing 'Door Number'.
- Report to:** A dropdown menu currently showing 'SCREEN'.

DATABASES MENU



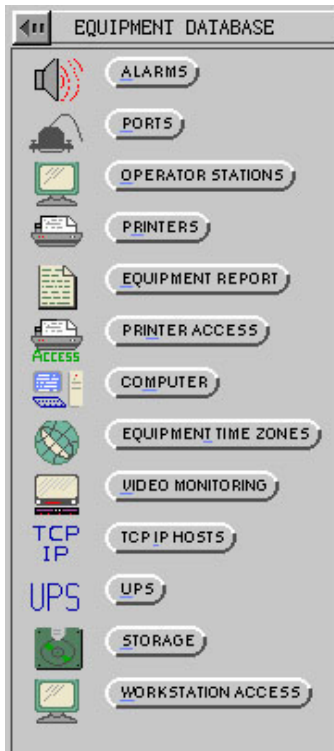
These databases store the information ARES requires to operate.

These menus should only be accessed by trained personnel.

In this section of the manual we will show you:

- * **The Equipment Database Menus.**
- * **The Video Monitoring menus.**
- * **The Members Database menus.**
- * **The Time Zones Menus.**
- * **Alarm Response Codes.**
- * **Holidays.**
- * **Computer Categories.**
- * **Database Clusters.**

DATABASES MENU - EQUIPMENT DATABASE MENU



Equipment Database - Ports

Ports are the communication channels between ARES and field equipment.

Depending on the type of port selected, various data entry fields are displayed. All fields are mandatory. Drop boxes are presented for QNX System ID, Handshake, Baud Rate, Parity and Type. Databits must be manually set to 7 or 8.

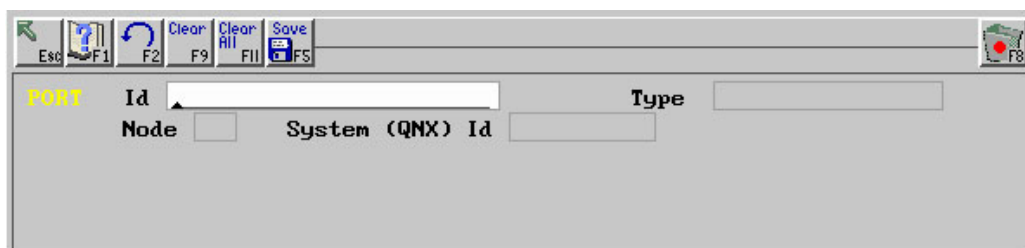
The node number must be selected before the QNX System ID as ARES goes to the selected node to interrogate the available hardware.

- ID:** A name given to the port record to identify it to other ARES components.
- TYPE:** A drop down menu indicating the type of port. EG: Parallel Printer, Serial Terminal, etc.
- NODE:** The node number where the port is attached.
- SYSTEM (QNX) ID:** The entry in QNX's /dev directory that identifies the hardware. **NOTE:** the node number must be already entered.
A Drop Down menu shows available hardware.
- HAND SHAKE:** Select the appropriate comms handshaking.
- BAUD RATE:** Select the correct baud rate. **NOTE:** Challenger Direct automatically sets 4800
A dial Challenger using an on-board modem must be set to 300.
A dial Challenger using a computer port must be set to 4800.
- PARITY:** Select the correct parity.
- DATABITS:** Enter 7 or 8.

When a selection is made a range of additional fields will appear which will have information relevant to communication with the type of connection selected. These options can be accessed from a drop down menu:

Hand Shake: None, H/W, S/W
 Baud Rate: 300, 1200, 2400, 4800, 9600, 19200, 38400
 Parity: None, Odd, Even
 Data Bits: 7, 8

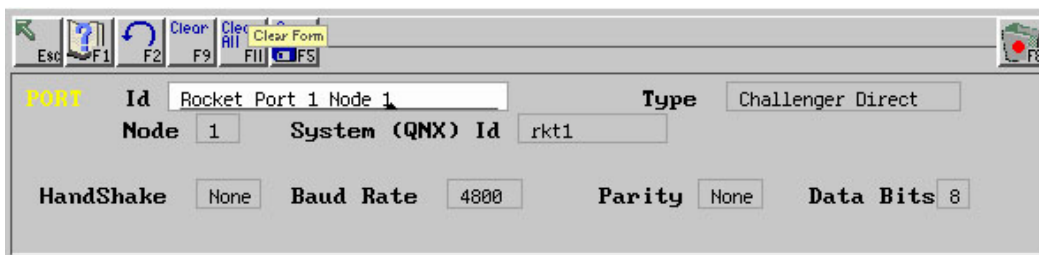
Ports Screen



The screenshot shows the 'Ports Screen' interface. At the top is a toolbar with buttons: Esc, F1, F2, F9, F11, F5, and F8. The main area contains the following fields:

- PORT** (yellow label)
- Id** (text box)
- Type** (text box)
- Node** (text box)
- System (QNX) Id** (text box)

Without additional fields



The screenshot shows the 'Ports Screen' interface with the following fields populated:

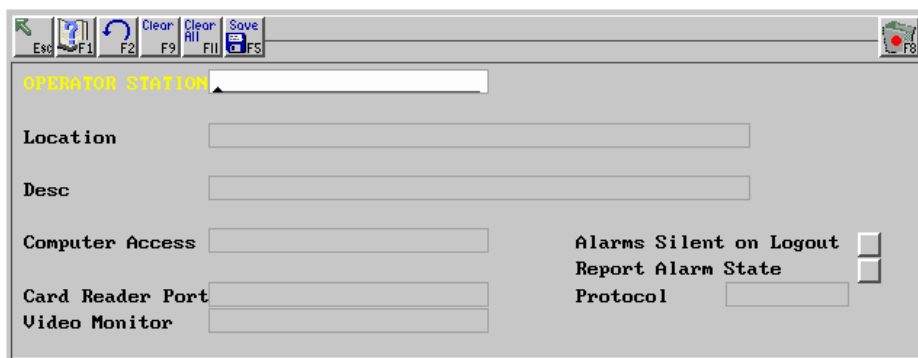
- PORT** (yellow label)
- Id**: Rocket Port 1 Node 1
- Type**: Challenger Direct
- Node**: 1
- System (QNX) Id**: rkt1
- HandShake**: None
- Baud Rate**: 4800
- Parity**: None
- Data Bits**: 8

With additional fields

Equipment Database - Operator Stations

The operator stations menu is where the relevant information for each Operator Station is displayed. All fields can be configured by the user. Default information contained in the fields is set by ARES when it is copied from node to node, but this information can still be altered, but only vt100 terminal records may be added or deleted.

Terminals must be programmed using this function.



ID: Enter an ID for the Operator Station or Console. This ID is displayed at the lower left of the screen.

LOCATION: Optional.

DESC: Optional.

COMPUTERACCESS: Select the appropriate Access record for the Operator Station. This record determines the Member Group and fictions available at the Operator Station.

CARD READER PORT: Select a serial (other) port if you wish to have operators log in to ARES using a proximity card.

OR TERMINAL PORT: If the Operator Station is a vt100 terminal, select the port (serial terminal type) to which the terminal will be connected.

VIDEO MONITOR: Select a Video Monitor to be associated with this Operator Station. Used if operator selects Video or Graphics Map.

ALARMS SILENT ON LOGOUT: Check this field if the alarm buzzere is to be silenced upon Operator Logout.

REPORT ALARM STATE: Check this field if ARES is to generate an event if the Alarm Count in the Alarm Priority Bar changes state.

PROTOCOL: A vt100 terminal is set to vt100.
A QNX work station is set to QNX.
This is automatically set.

Equipment Database - Printers

Printers may perform two functions, either separately or together.

- Print Real Time Events
- Print Reports

Printers selected for both functions will print real time events unless a report is to be printed. In this case, ARES stores the events until the report has finished printing and then resumes printing the events.

ID: A name given to the printer.

LOCATION: Optional.

DESC: Optional.

PRINTER ACCESS: Select an Access Record for the printer. This controls which events are printed at this printer and if this printer is displayed in search lists selected for reports by the operator.

PORT TYPE: Parallel / Serial.

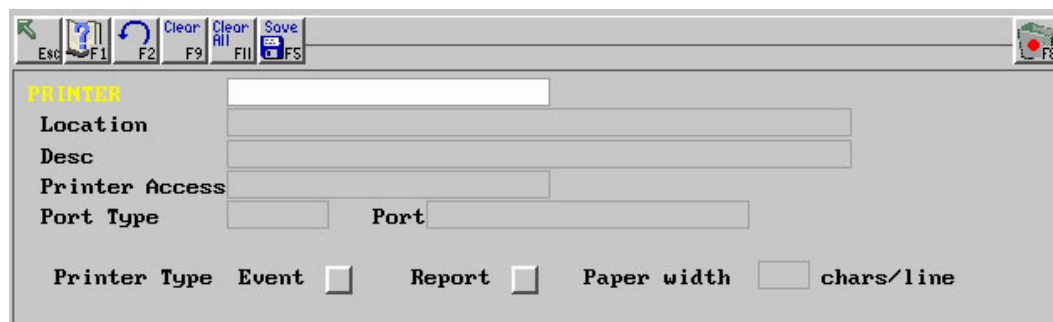
PORT: The ID of the port to which the printer is connected.

PRINTER TYPE EVENT: Check this option if the printer is to print real-time events.

PRINTER TYPE REPORT: Check this option if the printer is to print reports.

PAPER WIDTH: If left blank will default to 80 characters. The usual setting is either 80 or 132.

Printers Screen



The screenshot shows a graphical user interface for configuring printers. At the top is a menu bar with icons and labels: Exit, F1, F2, F9, Clear All, Save, and F8. Below the menu bar, the word "PRINTER" is displayed in yellow. The form contains several input fields and checkboxes:

- Printer ID:** A text input field.
- Location:** A text input field.
- Desc:** A text input field.
- Printer Access:** A text input field.
- Port Type:** A dropdown menu.
- Port:** A text input field.
- Printer Type:** Two checkboxes labeled "Event" and "Report".
- Paper width:** A text input field followed by the label "chars/line".

Equipment Database - Equipment Report

Reports are generated on the following computer hardware equipment which is found in the drop down options from the **Type** field:

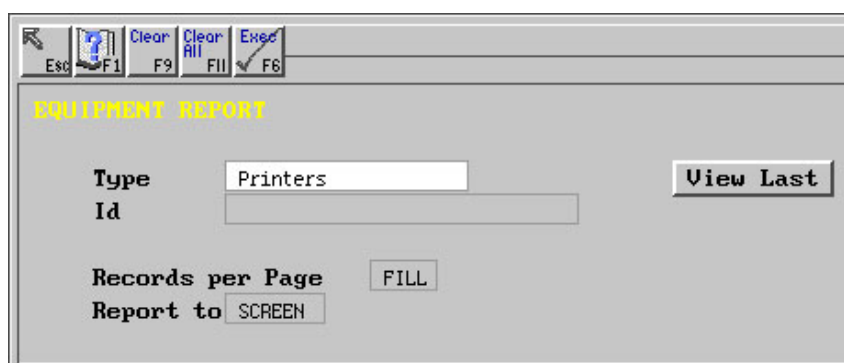
- Ports:** An external communicating device from a computer where equipment can be plugged in to communicate with the computer. Not a floppy drive.
- Printers:** Any printers that are connected to an ARES node and are registered as part of the ARES system.
- Consoles:** Workstations. ie: consoles or terminals.

The report can be specified to print a number of records per page from the drop down option in the **Records Per Page** field:

Fill: Reports will be printed to fill a page.

One: A single report is printed per page.

Equipment Report Screen

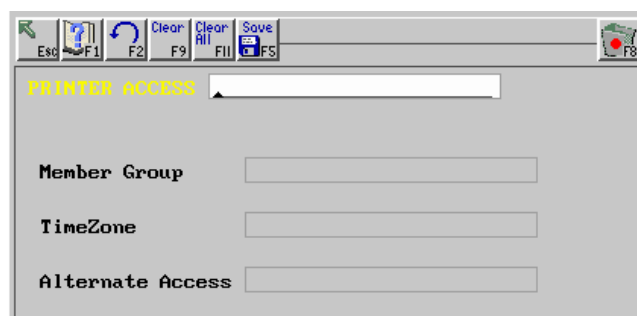


Equipment Database - Printer Access

Determines who has access to which printers, during what time zones, and what events get directed to the printer.

The printer access is timezoned which means the access can change according to the time of day.

If the timezone specified is not currently active, then the alternative access is tried. If this timezone is also not active, the next is tried, if available.



Equipment Database - Computer

This database contains a list of computers considered to be in the ARES network.

A computer **MUST** be in this database to be part of ARES so that alarms can be generated for it.
By default, Node 1 is already entered.


NUM: Node Number.

ID: An appropriate ID.

Equipment Database - Equipment Time Zones

Due to the nature of ARES, Nodes and/or Challengers do not have to be in the same place as each other. Node 1 may be in Victoria while Node 5 may be in another part of the same country where time zones differ and where daylight saving exists.

Equipment Time Zones Screen



The screenshot shows a software window titled "TIMEZONE & DAYLIGHT SAVING DATA". The window has a menu bar with icons for Esc, F1, F2, F9, F11, and F5, and a "Save" button. Below the menu bar, there are two input fields: "Id" and "TimeZone". To the right of the "TimeZone" field is a checkbox labeled "Has Daylight Saving".

ID: This can be anything you wish. eg: West Region, Melbourne, Factory 2.

TIME ZONE: Select the appropriate Timezone.

HAS DAYLIGHT SAVING: Check this box if the locality has Daylight Savings. The Daylight Savings data fields will then be displayed.

NOTE: The information selected here is important as ARES tracks when Daylight Savings starts/ends and automatically adjusts the time in the Challengers according to the data programmed here.