

VERSION 8 PROGRAMMING SEQUENCE

The following can be used as a guide for the order in which records can be programmed when setting up a basic system.

1. Plan the system and fill-out the programming sheets.

In planning the system make sure you define what outputs (Siren/s, Strobe, Relays) will be required.
This will determine the Event Flags that will need to be programmed in the Input, Area, Arming Station, Summary Event Flags, & Shunt Timer databases.
2. **Defaults** - Installer menu option 14, default to STD All (**99 <Enter>**).
3. To set up options that will determine how the system will operate.

System Options - Installer menu option 7.
4. If any words required for the names of inputs, areas, alarm groups, user categories, etc. in this system are not recorded in the Word Library:

Text Words - Installer menu option 10.
5. If functions available to Users or Arming Stations/Readers are to be restricted by time:
If Arm/Disarm Timers are used:
If Doors or Floors are to be restricted by time:
If Relays are required to be held active/inactive for a specified period:

Time Zones - Installer menu option 13.
Holidays - User menu option 21.
Program Time and Date - User menu option 15.
Also see **Time Zone to Follow Relays** - Installer menu option 22.
6. **Area Database** - Installer menu option 2 for all areas (partitions) in the system.
7. If the special function to allow timing on non-vault area/s is required:
(This function also requires programming in "System Options", "Area Linking", "User Categories" "Timers" and "Alarm Groups". See the programming guide for details.)

Areas Assign to Vaults - Installer menu option 18.
8. If Time Disarm functions are required:
If some of a user's areas are to be restricted to Arm/Reset only:
If "User Count" function is required (see User Category details for information):

User Categories - Installer Menu Option 15.
Note: User Categories are used in Alarm Groups to specify special functions for certain areas.
9. To define User's areas of control and functions available.
To define Arming Station/Reader areas of control and functions available.
(If the pre-programmed alarm groups are not suitable)
To define Arm/Disarm Timer, Area Control Input, and Auto Reset functions.
(If the pre-programmed alarm groups are not suitable)

Alarm Group - Installer menu option 5.

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10. If Access Control is utilized or Cards, insert keys, etc. are used in the system.
To define a user's level of access at door and lift readers/arming stations:
Door Groups/Floor Groups - User Menu Option 20.
11. If the system has more than 16 inputs or has intelligent Access Controllers :
Data Panels - Installer menu option 4.
12. If the system has Intelligent Access Controller DGPs (4 Door Controllers or Lift Controllers):
Remote Controllers - Installer menu option 28. (See special Programming guide/s)
13. **Input Database** - Installer menu option 1 for all inputs in the system.
14. If the system has more than one arming station :
Arming Stations - Installer menu option 3.
15. To record time values applicable to most timed system functions.
Timers - Installer menu option 6.
16. If Event Flags are required for any system events or system alarms:
Summary Event Flags - Installer menu option 34.
17. If Inputs (Door Contacts etc.) are to be shunted (inhibited from being activated for a specified period):
Input Shunts - Installer menu option 21.
18. To define Relay functions for every relay (and siren driver) in the system:
Map Relay - Installer menu option 16.
19. If the System is required to automatically reset alarms in specified areas after a specified period:
Auto Reset - Installer menu option 8.
20. If Areas are required to automatically arm and/or disarm at a specified time:
Arm/Disarm Timers - Installer menu option 17.
21. If an area is to follow the disarm state of other area/s:
Area Linking - Installer menu option 19.

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22. If your system is using Magnetic/Proximity/Wiegand Cards, Insert Keys, on RASs (doors) 1 to 16:
Up to two "Site Codes" (or "Facility Codes") may be programmed with the option of a "card offset" value for each Site Code.

Site Code - Installer Menu Option 20.
23. If your system has a printer connected to The Challenger Panel:
(via TS0091 or TS0094 interface fitted to the Panel)

Printer - Installer Menu Option 30.
24. If you require automatic dynamic battery testing or need to manually test a particular battery:

Battery Testing - Installer menu option 31.
25. If you require customised text (up to 32 characters) to appear on the LCD in place of
"There Are No Alarms In This Area":

Custom Message - Installer menu option 32.
26. If you require special text to appear on the LCD on a date specified for the next routine service call:

Program Next Service - Installer menu option 33.
27. To ensure system security when Panel is able to communicate with Upload/Download software:

Security Password - Installer menu option 29.
28. If you require output functions (e.g. Relay to pulse), timing functions, control functions
or input functions not available with any other installer menu options:
(This may also require programming in several other Installer menu options such as "Inputs",
"Areas", "Map Relays", etc. depending on the function/s required)

Macro Logic - Installer Menu Option 35.
29. To program User's PIN codes, Cards etc. into the system and define their functions:

Program Users - User menu option 14.
30. If any of the Intelligent Access Controller DGPs (4 Door Controllers or Lift Controllers) were
not connected and polled when "Timezones", "Door/Floor Groups", "Users", and "Holidays" were
programmed:

Download - Installer menu option 24.
31. **Communication Options** - Installer menu option 9.

Programming the Comm. Options last prevents the system from attempting to report before necessary.

Which Version 8 Installer Menu Options will I need to program?

1. **Input Database** Must be programmed for every input used.
2. **Area Database** Must be programmed for every area (partition) used.
3. **Arming Stations** Must be programmed for every arming station used.
4. **Data Panels** Must be programmed for every DGP used.
5. **Alarm Groups** Must be programmed before users can have any alarm system control.
(Alarm groups are assigned to users & arming stations)
6. **Timers** Records time values applicable to some timed system functions.
7. **System Options** Records system options.
Must be programmed to determine how the system will operate.
8. **Auto Reset** Programmed if the *Challenger* is to automatically reset after an alarm condition.
9. **Communication Options** Records the details of the communications link between *The Challenger* and the remote monitoring company &/or computer.
10. **Text Words** Used to program additional words to the word library. (words unique to this system)
13. **Time Zones** Records parameters of time zones used to restrict users, auto arm/disarm etc.
e.g. 7:00 to 19:00 Monday to Friday.
14. **Reset Defaults** Resets system to various default settings and allows history to be cleared.
The Default Option: 99 - All, should be used before commencing the programming.
15. **User Category Data** Programmed if users need to control areas differently. (e.g. If Time Disarm, Arm/Reset restriction or User Count functions required)
16. **Relay Mapping** Must be programmed for every relay used.
17. **Arm/Disarm Timers** Programmed to disarm & arm area/s automatically.
18. **Areas Assign to Vaults** Assign areas to be treated as vaults.
By using a special programming procedure a user category timer will start when all the vault areas are armed. When the timer expires, a non-vault area linked to the vault areas will automatically arm.
19. **Area Linking** Links an area to other areas to enable common area control.
20. **Site Number** Records up to two site identification numbers ("Site Codes" or "Facility Codes") and provides the option of programming two card offset values used in access card codes for readers connected to the Challenger LAN.
21. **Input Shunts** Programmed to inhibit an input from being activated for a set time period.
e.g. Shunt fire doors or access controlled doors.
22. **Timezone to Follow Relays** Used to program a timezone to be active only when a relay is active.
24. **Download** Allows User, Door/Lift Group, Timezone, and Holiday data to be downloaded to Intelligent DGPs.
28. **Remote Controllers** Allows access to Intelligent Door and Lift Controller DGP Programming.
Refer to Separate "4 Door Controller" or "Lift Controller" Programming Guides.
29. **Security Password** Records the Security Password required to access the Challenger Panel via any Computer Protocol. e.g. Challenger Management software.
30. **Printer** Records parameters of printer output.
Must be programmed if TS0091 or TS0094 are fitted and connected to a printer.
31. **Battery Testing** Records parameters of Auto Battery Test options and allows manual testing of battery.
32. **Custom Message** Records 32 Characters of customised Text which will be displayed on the LCD Arming Station/s in place of the message "There are no Alarms in this Area"
33. **Program Next Service** Records the date on which the next routine service call is due and the message to be displayed. The client will be prompted with programmable text to call the Security Company, via the LCD Arming Station/s.
34. **Program Summary**
 Event Flags Records Event Flags assigned to system functions and system alarms.
Programmed if a relay output is required to indicate the function or alarm condition.
35. **Program Macro Logic** Records details of high level Relay and Event Flag logic programming.
Programmed to achieve complex Input and Output functions not possible with other programming options. e.g. Pulsed outputs, function to activate multiple event flags, etc.

Diagnostic Options:

11. **Version Number** Records software version and database revision numbers.
12. **Lamp Test** Turns LEDs on or off to enable testing.
23. **Poll Errors** Displays errors in communication between *Challenger* and units connected to it.
25. **Display Card** Displays the Site Code and Card I.D. Number of the last card read by a reader connected to the Challenger LAN. i.e. Doors 1 to 16. Diagnostic facility only.
26. **Edit** Do not use. Diagnostic Facility only.
27. **Tecom Address Mapping** .. Displays the Physical Address and Reporting Address of Tecom Direct Line Panels.
Diagnostic facility only.

VERSION 8 EVENT FLAG RECORD

INPUT DATABASE

Input No.	Prog. No.	Siren Y/N	Camera Y/N	2 Sec	3 Sec	4 Sec	5 Sec	6 Acc	7 Acc	8 24H	9 Sec	10 Sec	11 Sec	12 Sec	13 Acc
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ARMING STATIONS

Arming Station Number															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Door Event															

VERSION 8 EVENT FLAG RECORD

AREA DATABASE

Event	Area															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Siren	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Access	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Unsealed	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isolate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Secure Alm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Access Alm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Local Alm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exit	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Entry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Warning	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Camera	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pre-Alarm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SHUNT TIMERS

Event	Shunt Timer Number															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Shunt Event	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Warning Event	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SUMMARY (SYSTEM) EVENT FLAGS

Mains Fail	DGP Isolate	Report Fail
Low Battery	DGP Offline	Testmode
Fuse Fail	RAS Offline	All Secured
Tamper	Duress	Console Trigger
Siren	Film Out	

VERSION 8 DEFAULTS

The Challenger Panel is supplied with a set of factory defaults in the programming to make initial set-up easier.

Inputs 1 to 16 are set to Type 2 - Secure Alarm with the SIREN Event flag & Event flag 2 (Strobe) set to YES.

All Area Databases have Exit time of 60 secs & Entry time of 30 secs, and the SIREN Event flag set to 1.

Arming Station 1 is programmed to be polled.
is assigned Alarm Group 2 (Master RAS).
is programmed as an "LCD Arming Station".

There are 29 pre-programmed Alarm Groups. (See Table 4 & Installer Menu Option 5 for details)

Most of the Timers have a default value programmed. (See Installer Menu Option 6 for details)

In System Options, Film Low is set to 800
Film Out is set to 1100

In Communication Options, Reporting format is Contact ID-Large. Area 1 is listed for Open/Close reporting.

Relay Mapping. Relay 2 (Strobe O/P) is mapped to Event Flag 2.
Relay 16 (Siren driver) is mapped to Event Flag 1.(See Siren Event Flag-Area Database)
The 16th relay assigned to each DGP (DGP Siren drivers) are also mapped
to Event Flag 1. i.e Relay 32, 48, 64, etc.