

Challenger Version 8 Radio Communications.

AN4

This document provides details of the programming requirements for getting a Challenger Panel reporting to the remote monitoring station via the Radio Network.

A programming flow chart is provided below for reference.

Accessing the Install Menu:

To display menu option 19 (Install Menu) in the User menu, the alarm group of the user code must allow it. The Master Installer is User Number 50. The default master PIN code (User 50) = 4346. The master PIN code should be changed. The Alarm Group assigned to User 50 should never be changed.

The Installer menu is accessed via the User menu and is User menu option 19. The system must be disarmed before it is possible to use the Installer Menu.

To disarm the system:

4 3 4 6 (Master PIN code) **<OFF>** then **0** (Select all areas) **<ENTER>**

To access the Install Menu:

<MENU> **4 3 4 6** (Master PIN code) **<ENTER>** Accesses User Menu.
then **1 9** **<ENTER>** Selects Install Menu

The Radio Network Status may be viewed if required.
This is a diagnostic facility for determining the
cause of any Radio Communication problems.

RADIO STATUS MESSAGES:

Unit Not Connected The Radio Packet modem is not connected to the Challenger Panel. This message may appear briefly when system is powered up or radio comms is first enabled.

Waiting for Network Radio Packet Modem is scanning for a network cell. This condition will exist for a short period after system is powered up or radio is first enabled. If this message does not clear, the "Session ID" may be programmed incorrectly.

Unit OK The Radio Communication network is functioning correctly. This condition is the normal condition once radio communications with the receiver has been established

Host Down The Network Receiver at the remote monitoring station is out of service.

No Response From Network Radio Packet Modem connected but no response from network.

Not Registered The Radio Packet Modem is not registered on the network.

Failed / In Backup Mode The backup dialler has failed to communicate with the remote monitoring station.

SUGGESTED PROGRAMMING SEQUENCE

Determine the reporting
requirements.

Check that Radio Packet interface
is installed & connected.

Program the
Radio Communications Options

Program the
Communication Options

1. Determine the reporting requirements and fill out the programming sheets.

Blank programming sheets are found at the rear of the Version 8 Programming guide.

In this application you will need to consider the following Installer Menu databases:

- 9. Communication Options
- 36. Radio Communications

2. Ensure that a Radio Packet Interface has been installed and connected to The Challenger Panel via J15 with the cable supplied. (or J9 on Version 7 Challenger Panels)

Refer to the TS2051 Radio Packet Interface installation guide for details.

3. To enable the Challenger system to report alarms etc. to the remote monitoring station, via the Radio Network program RADIO COMMUNICATIONS.

RADIO COMMUNICATIONS is programmed in Installer Menu Option 36.

A choice of "Program" or "Status" is offered.

From the Install Menu select Option 36.

Select the Program function.

Enable Radio Communications by setting Enable Radio to YES.

Set to YES

Record the Radio ID number which identifies the Radio Interface to the Remote Monitoring Company.

Enter the 4 digit Radio ID number
The ID number to be entered here will be supplied by the Remote Monitoring Company.

Record the Session ID which identifies the Remote Monitoring Receiver.

Enter the 2 character Session ID
This ID is supplied by Telstra when your host Receiver is allocated.

Program the Account Number/s.

System Account. Optional account no. if system alarms (Mains fail, Low Battery, Tamper, Siren Fail, etc.) are to be reported separately.

Enter the 4 digit Account number/s as required
The unique 4 digit number/s which identify your system to the monitoring company.
The number/s will be provided by that monitoring company.

Area 1 Account. MUST be programmed.
4 digit account number.

Area 2 to Area 16 Account. Optional account numbers if alarms and Open/Close reports are to be sent on a separate account number for each area.

Program the Backup Dialler Time.

The Backup Dialler Time is the period in minutes before the backup dialler will be activated to "Report Range Loss" on the Radio network in the event of a radio communication failure.

Enter the Time period in minutes

The backup dialler format and account number/s are programmed in the next step.

4. Program the COMMUNICATION OPTIONS to specify how the Challenger system will report and to enable the system to report to the remote monitoring station, on backup dialler in the rare event of a Radio Network failure.

COMMUNICATION OPTIONS are programmed in Installer Menu Option 9.

From the Install Menu select Option 9.

TELEPHONE NUMBER/S

PABX Access Code.

This is required if a code is required to gain access to an exchange line via a PABX.

Telephone Number 1.

The first telephone number used to communicate to the remote monitoring station.

Telephone Number 2.

The second telephone number used if three attempts on the first number fail to connect.

Enter the telephone number/s as required

Service Number

Callback Number

Computer Number

(See Vers 8 Programming guide)

ACCOUNT NUMBER/S

System Account. Optional account no. if system alarms are to be reported separately. Applicable to DTMF formats (1 to 4) only.

Area 1 Account. MUST be programmed. 4 digit account number for DTMF formats, or 6 digit account no. for TECOM dialler formats.

Area 2 to Area 16 Account. Optional account numbers if alarms and Open/Close reports are to be sent on a separate account number for each area. Applicable to DTMF formats (1 to 4) only.

Enter the 4 digit Account number/s as required
The unique 4 digit number/s which identify your system to the monitoring company. The number/s will be provided by that monitoring company.

FORMAT SELECTION

For Dialler Formats there are 6 format selection options.

At present, Format 4: Contact ID-Large, is the only backup dialler format which may be selected.

Select Format number 4 if backup dialler required

Reporting Formats:

There are 6 Dialler reporting format options:

- 0 - Reporting Disabled
- 1 - High Speed Extended Dual Round
- 2 - High Speed Extended Checksummed
- 3 - Contact ID - Small
- 4 - Contact ID - Large
- 7 - Tecom Dialler V1
- 8 - Tecom Dialler V3
(NOT Currently Supported)

Enter the area number/s required

AREAS TO REPORT OPEN/CLOSE

Specify the area/s that you wish to report Open/Close on.
(See also "Common Open/Close)

TEST CALL OPTION

There are 5 options for specifying when the system will activate a periodic test call to the remote monitoring station.

Enter the Test Call option number

- 0 No Test Calls
- 1 Test Call once a day
- 2 Test Call once a week
- 3 Test Call once a day if no event reported
- 4 Test Call once a week if no event reported
- 5 Test Call every 4 Hours

TEST CALL TIME

If a test call option is selected you must specify the time of day when it will occur.

Enter the test call time in hours/minutes.
Note: 24Hr clock.

MAXIMUM EVENTS IN COMMS BUFFER

If it is necessary to limit the number of events that would be reported if the system detects a high level of activity in a short period of time, then you may specify the maximum number of events that will be stored.

Enter the number of events if different from default

MULTI BREAK ALARMS

If you require an input to report multiple alarms if it alarms more than once before being reset by a user, this option is set to YES.

Set to YES or NO as required
(Not applicable to Ext Highspeed formats)

MULTI BREAK RESTORALS

If you require a report to be sent each time a "Multi break" alarm reseals, this option is set to YES.

Set to YES or NO as required

REMOTE SYSTEM CONTROL

If the remote monitoring company is to be allowed to control certain system functions such as arm/disarm, reset, isolate, etc., over the Radio Network then this option must be set to YES.

Set to YES or NO as required

COMMON OPEN/CLOSE REPORTING

If you require the system to report only the first area to Open and the last to Close, this option is set to YES.

Set to YES or NO as required
If you want each individual area to report Open/Close, leave this option at NO.

tone dialling

In the unlikely event that the panel is installed where the exchange will only accept decadic (pulse) dialling, this option would be set to NO.

Set to YES or NO as required

DISABLE ISOLATES FROM TRIGGERING DIALLER

If you require Input Isolates to be buffered and reported with the next event that triggers the dialler to report, set this option to YES. Leaving this option set to NO will mean that input Isolates will instantly trigger the dialler.

Set to YES or NO as required

ENABLE PSTN LINE FAULT MONITOR

If you require the Challenger to continuously monitor the integrity of the Dialler (Exchange) line, set this option to YES.

Set to YES or NO as required
(MUST be set to NO in Version 7 panels)