Basic Programming Tutorial

The Cv3 Basic Programming Tutorial will walk you through the steps needed to configure a basic database. The following example illustrates programming two alarm inputs and one voice callout number.

The contents of the included Barnett Engineering Product CD should be installed to your PC before using this tutorial. If the CD is absent or if your PC lacks a CD drive, the software and USB driver may be downloaded from our website: <u>http://barnettprotalk.com/Support/software/ProTalk_Software_Suite.exe</u>. Refer to the *ProTalk Cv3 Software and USB Installation Tutorial* for instructions if needed: http://www.barnettprotalk.com/Products/B1277/tutorials/ProTalk_Cv3_Software & USB Driver Installation

Tutorial.pdf

Attach the supplied USB cable to both your PC and Cv3. Attach the antenna to the MAIN ANT connector, place an activated SIM card into and apply power to the Cv3 (between $+10V_{DC}$ and $+30V_{DC}$). Open the ProTalk Cv3 Database Editor. The 'Useful Features' window will appear the first time the program is launched:



This window will appear every time you open the software. If this window is undesired, uncheck 'Show this screen at startup' to prevent this window from appearing the future. Press 'Close' and the main window will appear:

ProTalk File In/Out Q	Cv3 Database	Editor - C:\Projects\ am <u>H</u> elp	Cv3\Basi	c Programming.I	DAT	• 6 - 0 🔀
] Y					ዋ?
	Wiring	Name	Action	Input Device	Description	
	Input 1	Alarm 1	Alarm	Discrete Contact	Alarm when the input is CLOSED to ground	
Inputs	Input 2	Alarm 2	Alarm	Discrete Contact	Alarm when the input is CLOSED to ground	
	Input 3	unnamed 3			disabled	
	Input 4	unnamed 4			disabled	
Outputs	Input 5	unnamed 5			disabled	
	Input 6	unnamed 6			disabled	
	Input 7	unnamed 7			disabled	
Callout	Input 8	unnamed 8			disabled	
	Input 9	unnamed 9			disabled	
	Input 10	Acknowledge	Control	Acknowledge	Acknowledge all alarms	
Reports	(Internal 11)	Power Supply			disabled	
	(Internal 12)	System Alarm			disabled	
683					1	
General	Wiing: Name: Input Device: Callout:	Input 1 Alarm 1 Discrete Contact Cha ✓ Enabled □ Latched Alarm	ange 1	fhe input is connecte ເ⊂ Alai C Alai	d through a contact to ground m when the input is CLOSED to ground m when the input is OPEN or high	



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Alarms 1 & 2 will be enabled by default and can be renamed to match the fault condition to be monitored. Highlight Input 1 and rename the input in the lower-half of the window (highlighted below):

BE ProTalk Cv3 Database Editor - C\Barnett Engineering Ltd\B1277 Cv3\Some Location.dat *								
Eile In/Out Operation Program Help								
<u> se c</u>	<u>\</u>					Y.ıl		
	Wiring	Name	Action	Input Device	Description			
	Input 1	Compressor Down	Alarm	Discrete Contact	Alarm when the input is CLOSED to ground			
Inputs	Input 2	Alarm 2	Alarm	Discrete Contact	Alarm when the input is CLOSED to ground			
	Input 3	unnamed 3			disabled			
	Input 4	unnamed 4			disabled			
Outputs	Input 5	unnamed 5			disabled			
	Input 6	unnamed 6			disabled			
	Input 7	unnamed 7			disabled			
Callout	Input 8	unnamed 8			disabled			
	Input 9	unnamed 9			disabled			
	Input 10	Acknowledge	Control	Acknowledge	Acknowledge all alarms			
Reports	(Internal 11)	Power Supply	Alarm	Internal	Setpoint Low: 10.00			
	(Internal 12)	System Alarm			disabled			
666					·			
General	Wiring: Name: Input Device: Callout:	Input 1 Compressor Down Discrete Contact Ch I Enabled □ Latched Alsm	ange	The input is connecte C Alar C Alar	d through a contact to ground m when the input is CLUSED to ground m when the input is OPEN or high			

Select Input 2 and repeat:

BE ProTalk Cv	/3 Database Edi	tor - C:\Barnett Enginee	ering Ltd\B1	277 Cv3\Some Lo	ation.dat *	
		ogram <u>H</u> eip				
	<u> 1</u>					Taoul
	Wiring	Name	Action	Input Device	Description	
	Input 1	Compressor Down	Alarm	Discrete Contact	Alarm when the input is CLOSED to ground	
Inputs	Input 2	AC Power Fail	Alarm	Discrete Contact	Alarm when the input is CLOSED to ground	
	Input 3	unnamed 3			disabled	
	Input 4	unnamed 4			disabled	
Outputs	Input 5	unnamed 5			disabled	
	Input 6	unnamed 6			disabled	
	Input 7	unnamed 7			disabled	
Callout	Input 8	unnamed 8			disabled	
	Input 9	unnamed 9			disabled	
	Input 10	Acknowledge	Control	Acknowledge	Acknowledge all alarms	
Reports	(Internal 11)	Power Supply	Alarm	Internal	Setpoint Low: 10.00	
	(Internal 12)	System Alarm			disabled	
686	-					
General	Wring: Input 2 Name: NC Power: Fail C Power: Fail C Power: Fail					
	Input Device: Discrete Contact Change					
Program	Callout:	Enabled				
riogram		☐ Latched Alarm				08 08 01 01 01 01 01 01 01 01 01 01 01 01 01



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The number of the person who is to receive the call can then be added to the configuration. Press the 'Callout' button in the left-hand column of the software:

BE ProTalk Cv3 Databas	e Editor - C\Barnett Engineering Ltd\B1277 Cv3\Some Location.dat *
	r Eroðraur, Tehn Årt
Inputs Outputs	ectory Create Groups Acknowledge Code 111 Repeat directory list every 2 minutes Temp Ack Code: 111 Interrogate Code: 1111 Advanced >>
Calou Drectory Calou I: Radic Reports General	V Define Shifts] o announcement Advanced Editor don't use paging tones V Send Alert Tones V Use "Enter Ack Code" phrase Then wait seconds (max 939) for a response.
Program	at Barcopy (The Poster △ Up ▽ Down)

A 'Radio announcement' is placed in the directory by default. To make a regular voice call, delete the Radio announcement by pressing the 'Delete' button at the bottom of the window. Type the receiver's number in the field below 'Phone,' on the right-hand-side of the window (it may be a good idea to enter your cell phone number here for testing once the database is complete):

BE ProTalk (V3 Database Editor - C\Barnett Engineering Ltd\B1277 Cv3\Some Location.dat *
Eile In/Out	Operation Program Help
	▼
Inputs	Main Directory Create Groups Acknowledge Code: 111 Repeat directory list every 2 minutes Temp Ack Code: 111#
Outputs	Interrogate Code: 1111 Advanced >>
Callout	Directory Define Shifts PHONE Advanced Editor
Reports	Telephone number to call
General	
Program	
	Late Late Delete
	Memory Used: 5%



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Now that the basic configuration is complete, the database needs to be sent to the Cv3. Press the 'Program' button in the left-hand-column:

BE ProTalk (V3 Database Editor - CABarnett Engineering Ltd/B1277 Cv3/Some Location.dat *
<u>File In/Out</u>	Operation Program Help
	<u>■</u> , Y
Inputs	Serial Port COM(6 (USB)
Cutputs	Database / Voices
Callout	Database 102110601 17.0000011
Reports	
General	Write Write Write
Program	
	94702AM Closing comm port 94703AM Opening port CDM0 947:04 AM Error opening comm port 0

The 'Database/Voices' tab will be displayed by default. Connect the supplied USB cable to the Cv3. The software will typically attach to the appropriate COM port automatically and display the COM number. If not, select the COM port in the drop-down box at the top of the window, where [USB] appears:





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Press the 'Write' button under the 'Database/Voices' tab to send the database to the unit. Save the database to an easily accessible folder on your PC for reference:

ProTak Cv3 Database Editor - CABarnett Engineering Ltd/B1277 Cv3/Some Location.det * File Inr/Out. Operation Program Help	BE Save As	x
Open Ctr/+ D New Database Ctr/+ N	Save in: 📔 Cv3 Databases 💽 🗲 🖆 📰 🗸	
Save LthrS Save A Voice Editor Update Module Firmware	Name Date modified Type Becord Places No items match your search.)e
Our prating List Ocen Cablore Control List Device Setting: Alam Monkeing Event Logger Image: Create Summary Event Alam Alam Konkeing Percoded Voices Vocebulary Exit Alam F4 Percoded Voices Vocebulary Cablor 102110801 International Control Voices	Desktop	
	Libraries	
Gerenal And	Computer	
Progen	Network III	Þ
10/00 MAM. Received hardware configuration 10/00 MAM. Requesting Immerse configuration 10/00 MAM. Cleang come part v	File game: Basic Programming Tutorial DAT Save Save as type: database files (*.dat) Candidate	re cel

The next step is to program voices for the Site ID and both alarms. There are two ways to do this; using a Touch-Tone phone or the embedded Voice Editor in the software. This example uses a phone. Refer to the *ProTalk Cv3 Voice Editor Tutorial* if you'd prefer to use the voice editor:

http://www.barnettprotalk.com/Products/B1277/Tutorials/ProTalk_Cv3_Voice_Editor_Tutorial.pdf

Connect a Touch-Tone phone to the PHONE PROGRAM port on the side of the Cv3. When the handset is lifted, "No Alarms. Enter Command Code" will be spoken. Wait several seconds and "Program Access. Enter Program Code" will be spoken:

You: Press 1** (the digits should be entered slowly) Cv3: "Program Voice. Enter Voice Code." You: Press 1** Cv3: "Site is......" You: Press 2**

Cv3: The unit will beep.

You: Begin speaking the site identifier. Once you've finished speaking, the Cv3 will detect your silence and play back the voice (be sure that you don't enter ** at the end of the recording, as the tones will be recorded with the voice and will disrupt the callout/acknowledgement process). If adequate, press ** to return to the Voice Code prompt or enter 2** again to re-record.

Cv3: "Enter Voice Code."

You: Press 2**

Cv3: "Input 1 is....."

You: Press 2**

Cv3: The unit will beep.

You: Begin speaking the alarm for input 1. Once you've finished speaking, the Cv3 will detect your silence and play back the voice. If adequate, press ** to advance to alarm 2. If you would like to rerecord the voice, enter 2** again.

You: Press 2**

Cv3: "Input 2 is....."

You: Press 2**

Cv3: The unit will beep.



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You: Begin speaking the alarm for input 2. Once you've finished speaking, the Cv3 will detect your silence and play back the voice. If adequate, simply hang-up the phone or enter 2** re-record.

The next step is to verify that the installed SIM card is active and that the cell phone has adequate signal strength. Press the 'Cellphone' tab in the software, and then press the 'Read' button:



If the SIM card has been activated, the number it's been assigned will be displayed in the 'PHONE' field. If ???????? is displayed, the card requires activation or needs to be re-provisioned by the cellular network provider.

The RSSI (Received Signal Strength Indicator) is also displayed. The recommended RSSI required for reliable operation is 10 or higher (the maximum being 15). If the number displayed falls below 6, intermittent operation with the cell tower can be expected. The current antenna should be replaced with a higher gain type (such as a directional or omni-directional) in that case.

The IMEI number is also listed. This number may be required by the cellular service provider to activate the account.

If the phone number is displayed, the RSSI is adequate and the 'Indicator Reference' section highlights 'Operation Good,' you can begin testing the unit with the network.

Assert alarm 1 or 2 to ground using one of the two GND terminals on the orange terminal block.

The unit will call the number in the main directory and announce the site identifier followed by the alarm voice programmed earlier. The Cv3 will then speak "Enter Acknowledge Code."

To acknowledge the alarm, enter 111 (the default acknowledge code) when requested to do so. The Cv3 will respond with the Site ID, followed by "Alarms Acknowledged." "Enter Command Code" will be spoken afterwards, but can be ignored.

Your Cv3 is now tested and functioning properly.



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For more additional programming options, refer to the manual and/or tutorials in the Barnett Engineering folder on the your PC's C drive (C:\Program Files (x86)\ProTalk\B1277 Cv3), or visit our website: <u>http://barnettprotalk.com/Support/</u>

