Shifts Tutorial

'Shifts' is a programming feature that enables alarm inputs to use more than 1 directory. Shift changes (i.e. changing the directory) can be done manually using a programmable shift change DTMF code (during a voice call or SMS text), by using an input, or automatically (by day and time). The following example illustrates the use of 2 shifts (1 operator on the day shift and 1 operator on the night shift).

Manual Shift Change Using A DTMF Code:

Open the configuration software and press the 'Callout' button in the left column and select the 'Define Shifts' tab:

🮫 ProTal	lk Cv3 Database Editor - C:\Projects\Cv3\Shifts.DAT	• 🗉 💶 🔀
Eile In/Out	Operation Brogram Help	
🛎 🖬		Y ?
Inputs	Main Directory Create Groups Acknowledge Code: 111 Temp Ack Code: 111 Interrogate Code: 111	
Outputs	Advanced >>	
	Directory Define Shifts	
Callout	C Begin shifts at the following times:	
Reports	Mon Fit Sun Hr Mn Shift 1 0 0 0 Shift Used None	
General		
Program		
r rogitani		

2 shifts are selected under the 'Shifts Used' field:

💷 ProTalk	k Cv3 Database Editor - C:\Projects\Cv3\Shifts.DAT	• = = 0 🔀
	Steleon Enhance	\.
Inputs Outputs	Main Directory Create Groups Acknowledge Code 111 Repeat calouts every 2 Interrogate Code 111 Advanced >> Advanced >>	
Callout	Directory Define Shifts	
Reports General	Shift 3 Shift 3 <t< th=""><th></th></t<>	
Program		



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Notice that the 'Directory' tab has been replaced with 'Shift 1' and 'Shift 2' (to the left of the 'Define Shifts' tab). Press the Shift 1 tab:

🥶 ProTall	Cv3 Database Editor - C:\Projects\Cv3\Shifts.DAT	• 6 - 1 🔀
<u>Eile I</u> n/Out	peration Program Help	
	Ψ	平 ?
Inputs Outputs	Main Directory Create Groups Acknowledge Code 111 Repeat calouts Temp Ack Code: 111 Interrogate Code: 1111	every 2 minutes
Calout	Shift 1 Shift 2 Define Shifts T: Radio announcement Image: Compared to the shifts Image: Compared to the shi	RADIO Advanced Editor
Reports		don't use paging tones
General		V seno xueri fonce ✓ Use "Enter Ack Code" phrase Then wait seconds (max 250) for a response.
Program		
	Cut Base X Delete △ Up ∇ Down	
	Memory Used: 2%	

Delete the 'Radio announcement' and enter the day shift operator's phone number as follows:

😑 ProTall	alk Cv3 Database Editor - C:\Projects\Cv3\Shifts.DAT	• • • • •
Eile In/Out	Operation Program Help	
		\\ ?
Inputs	Main Directory Create Groups Acknowledge Code: 111 Repeat callouts ev Temp Ack Code: 111//	ery 2 minutes
Outputs	Interrogate Code: 1111	Advanced >>
Callout	Shift 1 Shift 2 Define Shifts 1: Phone 403-5555555 Image: Comparison of the shifts	PHONE Advanced Editor
Reports		4035555555 Telephone number to call
General		
Program		
	Lot Copy Base Delete	
	Memory Used: 5%	

Press the 'Shift 2' tab and repeat the previous step for the night shift operator:



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ProTalk File In/Out O	c Cv3 Database Editor - C:\Projects\Cv3\Shifts.DAT	e - D 🔀
B	Ψ	₩?
Inputs Outputs	Main Directory Create Groups Acknowledge Code: 111 Temp Ack Code: 111# Interrogate Code: 1111 Advanced>>>	
Callout Callout Reports General	Shit 1 Shit 2 Define Shits	anced Editor
Program	K Cut Cut Copy Cut Paste X Delete	
	Memory Used: 5%	

Going back to the 'Define Shifts' tab, the 'Shift Change Code' is set to 000 by default (which can be changed):

📑 ProTa	k Cv3 Database Editor - C:\Projects\Cv3\Shifts.DAT	• • • • • •
Eile In/Out	Operation Program Help	
B	P	Y ?
	Main Directory Create Groups	
	Acknowledge Code: 111 Repeat callouts every 2 minutes	
Inputs	Temp Ack Code: 111#	
	Interrogate Code: 1111	
	Advanced >>	
oupus		
	Shift 1 Shift 2 Define Shifts	
Callout	C Begin shifts at the following times:	
	Mon Fri Sun Hr Min Shift 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Reports	Shift 2 00 V:00 V Shift Change Code:	
General	Shit 4	
Program		
	1	



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One way to change the shift is to call the Cv3 and wait for it to answer. If there aren't any alarms present, the Cv3 will speak the Site ID followed by "No Alarms" and "Enter Command Code." Enter 000 (the shift change code is one of the command codes). The Cv3 will respond with the Site ID followed by "Change To Shift 2." Using a Touch-Tone phone plugged into the PGM port will accomplish the same task.

Another way to change the shift is to send an SMS text with 000 to the Cv3 from your cell phone. The Cv3 will then confirm it received the message and made the change by sending an SMS text with the Site ID, followed by "Change to shift 2."

If more than 2 shifts are used, a specific shift can be jumped to instantly from any other shift (as opposed to having to enter the code multiple times to get to the desired shift). This is done by appending the desired shift number to the end of the shift code. For example, if the desired shift is 4 and the current shift is 1, you would enter 0004.

If the current shift is unknown, its status can be determined by entering the 'Shift Interrogate Code.' This is done by appending the end of the shift code with # (000#). The Cv3 will then respond with the current shift.

Manual Shift Change Using A Control Input:

A shift can be changed using an input configured as a 'Control' type. Input 10 is defaulted as a control input and can be changed from 'Acknowledge' to 'Shift' (though any input can be configured as a control type).

Press the 'Inputs' button at the top of the left-hand column and highlight Input 10:

😑 🛛 ProTalk (Cv3 Database	Editor - C:\Projects\	Cv3\Shift	s.DAT		• = = 🗆 🔀
Eile In/Out Or	peration Progra	m <u>H</u> elp				
F B	Ψ					T.
	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	unused input 3			disabled	
	Input 4	unused input 4			disabled	
Outputs	Input 5	unused input 5			disabled	
	Input 6	unused input 6			disabled	
	Input 7	unused input 7			disabled	
Callout	Input 8	unused input 8			disabled	
	Input 9	unused input 9			disabled	
	Input 10	Acknowledge	Control	Acknowledge	Acknowledge all alarms	
Reports	(Internal 11)	Power Supply			disabled	
	(Internal 12)	System Alarm			disabled	
66						
General	Wiring: Name: Input Device:	Input 10 Acknowledge Acknowledge Cha	nge	he input is connecter	I through a switch to ground: noweldge alarms when the switch opens.	



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Press the 'Change' button in the lower left-half of the window, select 'Shift Change' in the upper right corner of the pop-up window and then press 'OK':

	💷 ProTa	lk Cv3 Database	Editor - C:\Project	s\Cv3\Shif	ts.DAT		• 5 🖬 🛛 🔀
	Ele In/Out	Operation Progra	am <u>H</u> elp				
Input Device Selector 🗖 🔀		<u> </u>					T. I
Generic Inputs Predefined Sensors Create New Sensor		Wiring	Name	Action	Input Device	Description	
Alarmina: Monitor Only: Control Functions:		Input 1	Alarm 1	Alarm	Discrete Contact	Alarm when the input is CLOSED to ground	
Discrete Contact Interval Acknowledge	Inputs	Input 2	Alarm 2	Alarm	Discrete Contact	Alarm when the input is CLOSED to ground	
Watchdog Timer Totalizer Shit Change Intrusion Detect Accumulator		Input 3	unused input 3			disabled	
Analog 0-5V Analog 0-5V Analog 0-30V Analog 0-30V		Input 4	unused input 4			disabled	
Analog 4-20mA Analog 4-20mA	Outputs	Input 5	unused input 5			disabled	
		Input 6	unused input 6			disabled	
		Input 7	unused input 7			disabled	
	Callout	Input 8	unused input 8			disabled	
		Input 9	unused input 9			disabled	
		Input 10	Acknowledge	Control	Shift Change	Advance to the next shift	
Settings:	Reports	(Internal 11)	Power Supply			disabled	
		(Internal 12)	System Alarm			disabled	
On Delay: 100 Image: Select this type when attaching to a pushbutton switch to control the device Off Delay: 100 Image: Off Delay:	General Program	Wiring: Name: Input Device:	Input 10 Acknowledge Shift Change C	hange	The input is connecte ເ⊂ ADA C SEL	d through a switch to ground: ANCE to the next shift when the switch opens. ECT Shift 1 when open and Shift 2 when closed	
OK Cancel							

By default, the input (either the + or - terminals) should be grounded using a switch of some kind (toggle, pushbutton, relay, etc.). The shift will advance when the input detects that it is open. Any subsequent shift advances requires that the input be grounded and then opened again. To identify what shift is currently being used, the input 10 LED on the top of the Cv3 will be off for shift 1, solid green for shift 2, flashing green for shift 3 and flashing orange for shift 4.

Since only 2 shifts are being used in this example, 'SELECT Shift 1 when open and Shift 2 when closed' may be a more appropriate setting when using a SPST toggle switch, as the shift status is also evident based on the position of the bat. This option is selected in the lower half of the previous window.



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Automatic Shift Change:

Shifts can also be changed automatically without any outside intervention required.

Going back to the 'Callout' section and under the 'Define Shifts' tab, select 'Begin shifts at the following times:'

B ProTalk	Cv3 Database Editor - C:\Projects\Cv3\Shifts.DAT	• • • • • •
		T.
Inputs Outputs	Main Directory Create Groups Acknowledge Code: 111 Temp Ack Code: 111# Interrogate Code: 1111 Advanced >> Advanced >>	
Callout Callout Reports General	Directory Define Shifts • Begin shifts at the following times: Mon Fri Sun Hr Min Shift 1 Shift 2 00 1:00 1 Shift 3 00 1:00 1 Shift 4	
Program		

The days and times for each shift change are selectable. In the following example, Shift 1 begins at 6:00AM every day of the week, and Shift 2 begins at 6:00PM every day of the week.

🥶 ProTall	: Cv3 Database Editor - C:\Projects\Cv3\Shifts.DAT	• 6 . 0 🔀
Eile In/Out	Operation Program Help	
2	平	Ψ?
Inputs	Main Directory Create Groups Acknowledge Code: 111 Repeat calcuts every 2 minutes Temp Ack Code: 111// Interrogate Code: 1111	
Outputs	Advanced >>	
	Shift 1 Shift 2 Define Shifts	
Callout	○ Begin shifts at the following times:	
Papata	Mon Fri Sun Hr Min Shift I PIPIPIPI PIP 106 - Shift Used:	
General		
Program		

