Configuring Shift Reports in Protege GX

Application Note

CTeSecurity.

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Contents

Rotation and Overnight Shifts	4
Scenario	4
Configuring the Report	5
Creating the Overnight Shift Type	5
Adding the Shift to an Attendance Report	6
Viewing the Report	12
Printing the Report	13
Contact	14

Rotation and Overnight Shifts

Industries such as law enforcement, security, health care and manufacturing often require operations to be run 24 hours a day, 7 days a week. This practice typically sees the day divided into shifts.

Protege GX can be used to create shifts that run during the day, run overnight and rotate over a set period of time. Using the Time and Attendance feature, single shifts can be added to an attendance report and viewed directly from the user interface.

Version Compatibility

The following software version or higher are required for this functionality:

Software	
Protege GX Software	3.2.69.6

Scenario

In this example we will be using a scenario that is based in a factory environment that requires operations to be carried out 24/7. The staff in the factory have been split into four teams of ten and are required to work six days on and two days off.

The company has created three, eight hour shifts that are rotated between the teams over a twenty-four day period:

- Morning shift (07:00 15:00)
- Afternoon shift (15:00 23:00)
- Overnight shift (23:00 07:00)

Each shift has two ten minute paid breaks and one thirty minute unpaid break.

Using the Time and Attendance function in Protege GX, we are going to be configuring the overnight shift and pulling a report on one particular day.

Configuring the Report

Creating the Overnight Shift Type

- 1. With the Protege GX application open, navigate to **Reports | Setups | Shift Type**.
- 2. Click Add and enter a Name for the shift.

To follow the scenario, we have entered Warehouse Overnight Shift for the name.

General Time		
- General		
Name	Warehouse Overnight Shift	
Name (Second Language)	Warehouse Morning Shift	
Color		
Record History		

- 3. Select a Color to identify the shift.
- 4. Select the Time tab.
- 5. Enter a Start Time and End Time for the shift.

To follow the scenario, we have set the Start Time to 23:00 and the End Time to 07:00.

General Time	2						
- Shift Times							ĥ
Start Time		2	3:00				
End Time		0	7:00				
Include Minute	s Before Shift Start (In M	/linutes) 3	0				
Include Minute	s After Shift End (In Mii	nutes) 3	0				
 Break Times 							- 1
	Name	Start	End	Duration	Calculation		ш
📕 Break 1	Tea Break	01:00	01:10	9	Include	₹	Ш
📒 Break 2	Midshift Break	03:00	03:30	29	Include	₹	Ш
📒 Break 3	Tea Break	05:30	05:40	9	Include	₹	Ш
Break 4		00:00	00:00	0	Include	₹	Ш
Break 5		00:00	00:00	0	Include	₹	Ш
Break 6		00:00	00:00	0	Include	T	

6. If you want to view a certain amount of time before and after the shift, enter the desired values in the Include Minutes Before Shift Start and Include Minutes After Shift End fields.

This will allow us to view whether an employee has arrived early or left late.

- 7. The **Break Times** section allows you to configure up to six break periods during the shift. To create a break period:
 - Select one of the break options
 - Enter a **Name** for the break
 - Set a Start and End Time
 - Enter the **Duration**. The duration is the time between the start and end time. For example, when the start time is 01:00 and the end time is 01:10, the break duration is 9 minutes.
 - Select whether to **Include** to **Exclude** the break from the final calculation. If a lunch break is unpaid, you would select to exclude it so the break will be processed as a time deduction. For shorter (paid) breaks, you would choose to include the break.
- 8. Click Save.

Adding the Shift to an Attendance Report

In order to view the information we're looking for, we now need to add the shift to an attendance report.

- 1. Navigate to **Reports | Setup | Attendance**.
- 2. Click Add.

Allowed Doors	User Fields		Public Holidays	E-mail
General	Shift Times			
General				
Name		Warehouse	Overnight Shift Report	
Name (Second Language)				
Record Group		<not set=""></not>		
User Source		User List		
User Record Group		<not set=""></not>		
Report Type		Shift First an	d Last User Event	T
Unscheduled Days Worker	d (excluding Public H	olidays)		
Public Holidays Worked				
Report Print Template		Detail		
Grace Time		05:00		
Normal Pay Code		11084		1
- Period				
		Custom Peri		
		Sunday		
		11/09/2014	12:00 a.m.	-
		12/09/2014	12:00 a.m.	-
Prompt For Date				
 Record History 				-

- 3. Enter the General details:
 - **Name**: The name of the attendance report.
 - Record Group: Defines the record group that the report is assigned to.
 - User Source: Determines where the users for the report will be sourced from. Choose from: We have selected the User List option.
 - User List to select specific users
 - Access Level to select all users belonging to a certain Access Level
 - Record Group to select all users that are part of a certain Record Group
 - User Record Group: If choosing Record Group as the User Source above, select the Record Group to use.
 - **Report Type**: Defines the method in which the time is calculated. Choose from:

We have selected the Shift First and Last User Event option.

- Daily First In Last Out to use the first entry event and the last exit event each day to determine attendance and the hours included. Any events in between are ignored, meaning any time spent offsite such as breaks is not deducted.
- Shift First In Last Out to use the first entry event and the last exit event each day and additional entry/exit events during the day. Protege then pairs the various entry/exit events with any defined shift and break times to calculate the hours worked.
- Daily First and Last User Event to use the first and last user event each day to determine attendance and the hours included. Any events in between are ignored, meaning any time spent offsite such as breaks is not deducted.
- Shift First and Last User Event to use the first and last user event each day and the additional events during the day. Protege then pairs the various entry/exit events with any defined shift and break times to calculate the hours worked.

- First Scan In to show the earliest entry time for each day
- Last Scan Out to show the latest exit time for each day
- First Scan In and Last Scan Out to show the earliest entry time and the latest exit time for each day
- Late In to show the earliest entry time for each user for the days where the entry time was late (after the grace time has been applied)
- Top 10 Late In to show the users with the 10 highest number of Late In entries
- Late Out to show the latest exit time for each user for the days where the exit time was late (after the grace time has been applied)
- Early In to show the earliest entry time for each user for the days where the entry time was early (after the grace time has been applied)
- Early Out to show the latest exit time for each user for the days where the exit time was early (after the grace time has been applied)
- Absent to show the users with no time entry data for any of the days covered by the report
- Top 10 Absent to show the users with the 10 highest number of days absent

The Unscheduled Days Worked (excluding Public Holidays) and the Public Holidays Worked options cannot be enabled when configuring an attendance report based on a shift. Enabling these options may cause the report to generate unexpected results.

• **Report Print Template:** Defines the level of detail to include in the report. Choose from:

We have selected the Detail option.

- Summary to show a daily summary for each user
- Detail to show a detailed breakdown for each user each day, including start, break, and end times, and the corresponding in and out calculations for each event.
- Summary ICT to output the report in a CSV format that shows a detailed breakdown of users start, break and end times, and the corresponding in and out calculations for each event
- Summary MYOB to output the report in a CSV format that shows a breakdown of the in and out calculations for each event that can be directly read into the MYOB program
- **Grace Time:** Defines the time (hours:minutes) before the user is considered to be late or early and the excess time deducted from the hours reported. For example, if a user is 2 minutes late returning from a break and the grace time is set to 3 minutes, the time is not deducted from the total hours worked. However if that user is 5 minutes late returning from a break and the grace time is set at 3 minutes, the entire 5 minutes is deducted from the total hours worked.
- Normal Pay Code: Allows you to specify a pay code for normal working hours.
- 4. Enter details of the **Period** for which to include data:

We have selected the Prompt for Date option.

- **Period**: Choose from the previous one, two, or four weeks, or select custom period to define a specific start and end date.
- **Starting**: Determines which day of the week the report is to start from. For example, selecting Monday and a one week report, will display data from 00:00am on Monday to 11:59pm Sunday.
- Start Date: If using a custom period, determines the date the attendance report is to start from.
- End Date: If using a custom period, determines the date the attendance report is to stop at.
- **Prompt for Date**: When configuring the report, if a custom period is configured the Prompt for Date option can be selected. This brings up a date prompt each time the report is executed.

- 5. Click the Shift Times tab to select the shift you want to report on.
- 6. Set the Shift Type to Rotation.
- 7. Set the Rotation Length and Rotation Start Date.

Allowed Doors	User Fields		Public Holidays	E-mail	
	Shift Times				
- Shift Type					
Shift Type		Rotation		–	
Rotation Length (days)		8			
Rotation Start Date		07/09/2014			
Shift Details					Ť

8. From the Shift Details section, click Add to assign a shift to the report.

Shift Types	
	Create Shift Type
	Name
Warehouse Overnight Shift	
Drag and drop items directly to the main window list and click Ok.	w OR select one or more items in the
Ok	Cancel

9. Select the Shift you want to add and click Ok.

The shift will appear in the Shift Type table and display the color, name, start and end times and the break times configured.

10. From the drop down, select the Shift and click the days that the shift applies to.

General	Shift Times	Users A	ccess Levels	Allowed Doors	User Fields P	ublic Holidays	E-mail	
 Shift Typ 	e							î
- Shift Det	ails							
Shift Type								
			Delete		Details	Ca	lendar View	
Colo		Name		Start Time	End Tim	e	Breaks	
	Warehous	e Overnight	Shift 23	:00				
Wareh	ouse Overnight {	₹ Ap	ply a shift to th	ne required days by	clicking directly on	the calendar be	low	
	September 2014							
Mon Tue	Wed Thu Fri	Sat Sun						
		7						
89	10 11 12	13 14						

11. Using the Calendar View, we can see how the shift will operate over and extended period of time.

Ca	le	eno	daı	۲V	'ie	w																×
			Janu	Jary	2014					Febr	uarv	2014					Ma	rch 2	014		•	-
M	lon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
			1	2	3	4	5						1	2						1	2	
	6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9	
	13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16	
2	20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23	
2	27	28	29	30	31			24	25	26	27	28			24	25	26	27	28	29	30	
															31							
			Ap	oril 20	014					Ma	ay 20	014					Ju	ne 20	014			
M	lon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
		1	2	3	4	5	6				1	2	3	4							1	
8	7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8	
8	14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15	
4	21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22	
2	28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29	
												_			30		20.000					
			Ju	ily 20	14					Aug	ust a	2014					Septe	mbe	r 201	4		
M	lon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	-	1	2	3	4	5	6		2		-	1	2	3					-		-	
		8	9	10	10	12	13	4	5	0		8	9	10	1	2	3	4	5	0	1	
	14	15	10	17	18	19	20	10	12	13	14	15	10	17	8	9	10	10	12	13	14	
4	21	22	23	24	25	20	21	18	19	20	21	22	23	24	20	10	17	18	19	20	21	
22	20	29	50	51				25	20	21	20	29	50	51	22	23	24	25	20	21	20	
			Octo	ober	2014					Nove	mbe	r 201	4		29	50	Dece	mber	201	4		
M	lon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
			1	2	3	4	5						1	2								
	6	7	8	9	10	11	12	3	4	5	6	7	8	9	1	2	3	4	5	6	7	
	13	14	15	16	17	18	19	10	11	12	13	14	15	16	8	9	10	11	12	13	14	
2	20	21	22	23	24	25	26	17	18	19	20	21	22	23	15	16	17	18	19	20	21	
2	27	28	29	30	31			24	25	26	27	28	29	30	22	23	24	25	26	27	28	
															29	30	31					
		_	_	_			_	_	_	1			31	_	_	_	_			_	_	
											Clos	e										

12. If you have chosen User List as the User Source for the report, click the Users tab to define which users to report attendance for.



13. If you have chosen Access Level as the User Source for the report, click the Access Levels tab to define which access levels to report attendance for.



14. Click the Allowed Doors tab to define the doors and to select the direction (Entry, Exit, or Both) that will be used to track attendance.

General	Shift Times		Users	- 7	Access Levels
Allowed Doors	User Fields		Public Ho	olidays	E-mail
Doors					î
Name			lirection		
Office Entry		Both	T		
Office to Warehouse		Both	T		
					U

- Both: Use for a door that serves as both a clock in and clock out point. When a user enters these doors they are identified as being onsite (clocked in). When they exit these doors, they are identified as having left site (clocked out)
- Entry: Use for access points that are only used to clock in
- Exit: Use for access points that are only used to clock out
- 15. Click the **User Fields** tab to define an employee code and add additional user data by selecting the Protege GX custom fields and extended custom fields required by the third party system.

General	Shift Times	Brea	ak Times	Úsers	Access	Levels
Allowed Doors	U	er Fields	Pub	lic Holidays	E-1	mail
Default Exported Us	er Fields					i
Employee Code		<no< td=""><td>t set></td><td></td><td>5</td><td></td></no<>	t set>		5	
Additional Exported U	ser Fields					
	Name		- 12			

16. Click the **Public Holidays** tab to add holidays to run against the Public Holidays Worked option. This allows the report to differentiate between a public holiday and an ordinary work day in the report.

If you require the shift to run over a public holiday, it must be set from the **Shift Type** column.

General Shift Times Users	Access Levels	Allowed Doors User Fields	Public Holidays E-mail	
Public Holidays				
Add Holidays to the list below.		Delete		
Click the buttons above to ADD or	DELETE records.			
Name	Repeat	Start Date	End Date	Shift Type
Christmas Break		24/12/2014	▼ 30/12/2014	🔹 📕 Warehouse Overnig 👻
New Years Eve		31/12/2014	▼ 31/12/2014	🔹 📕 Warehouse Overnig 👻
New Years Day		01/01/2015	• 01/01/2015	• Warehouse Overnig 🐨

17. Click the Email tab to enter details of who and when the report should be emailed to.

	Shift Times			Access Levels
Allowed Doors	User Fields		Public Holidays	E-mail
				•
Attendance Operator				
Add				
Name				
Warehouse Supervisor				
E-mail Report				
📕 E-mail Report				
Report Format		PDF		
Time		16:00		
Sunday				
Monday				
📒 Tuesday				
Wednesday				
Thursday				
📕 Friday				
Saturday				
				<u> </u>

- **Operators**: Add the operator(s) to send the report to.
- Email Report: Select to enable email. Note that the operator must have an email address defined under their operator settings and the SMTP server must be defined under the Global settings or the email will fail to send.
- **Report Format**: Defines the format of the file format if the report that will be sent. Choose from PDF, CSV, Text, or XLS.
- Time: Defines the time and day(s) that the report will be sent.
- 18. Click **Save** to save the report.

Viewing the Report

- 1. To view the report, navigate to Reports | Attendance.
- 2. Set the Attendance Report to the one just created.
- 3. Click Execute.

As we have enabled the Prompt for Date option, we need to set the Start and End Date.



4. Click OK.

Attendance Attendance Report: Warehouse Overnight Shi 🐺 Site						Site: ACME	-	A Execute	Print	≤			
	User Name 🔺 Date												
т	Shift Name			In Door	Out	Out Door	Total			Deduct	Accrual		
۲	Oser Name: Angel	a Anderson					Sum 🔻 (Total •)=08	:01 5	um + (Deduct +)=00:30	Max + (Accrual +)=07:31	î	
	③ User Name: Brand	on James					Sum • (Total •)=00:	:00 5	um + (Deduct +)=00:00	Max + (Accrual +)=00:00		
	③ User Name: Brett	Lamb					Sum + (Total +)=00:	:00 5	um + (Deduct +)=00:00	Max • (Accrual •)=00:00		
	⊙ User Name: Calvin	Diaz					Sum + (Total +)=00:	:00 5	um = (Deduct +)=00:00	Max + (Accrual +)=00:00		
	③ User Name: Dougl	las Ross					Sum + (Total -)=00:	:00 5	um + (Deduct +)=00:00	Max + (Accrual +)=00:00		
	⊙ User Name: Faye S	õparks					Sum + (Total +)=00:	:00 5	um + (Deduct +)=00:00	Max + (Accrual +)=00:00		
	⊙ User Name: Gretc	hen Holme	5				Sum + (Total +)=00:	:00 5	um + (Deduct +)=00:00	Max + (Accrual +)=00:00		
	⊙ User Name: John \	Watson					Sum + (Total +)=00:	:00 S	um + (Deduct +)=00:00	Max + (Accrual +)=00:00		
	⊙ User Name: Lois Jo	oseph					Sum + (Total •)=00:	:00 5	um + (Deduct +)=00:00	Max + (Accrual +)=00:00	U	
	③ User Name: Pat Al	len					Sum + (Total •)=00:	:00 5	um + (Deduct +)=00:00	Max + (Accrual +)=00:00		

The report will be displayed in List View.

5. Use the arrow (O) symbol to expand the records.

1	Attendance Report	Attendance Report: V	Varehouse Overnight Shi 🥃	Site: ACM	ΛΕ	e Print		1
	User Name 🔺 Date							
	Shift Name	In	In Door	Out	Out Door	Total	Deduct	Accrual
т								
	(a) User Name: Angel	a Anderson				Sum + (Total +)=08:01	Sum + (Deduct +)=00:30	Max + (Accrual +)=07:31
•	Sector 2010 Date: 11/09/2	014 To 12/09/2014				Sum + (Total +)=08:01	Sum + (Deduct +)=00:30	Max + (Accrual +)=07:31
	Start	23:00	Office Entry	01:00	Office to Warehouse	2:00 (Grace Time Applied)	-	2:00
	Tea Break	01:00	Office to Warehouse	01:11	Office to Warehouse	0:10	- (Grace Time Applied)	2:11
	Standard	01:11	Office to Warehouse	03:00	Office to Warehouse	1:49		4:00
	Midshift Break	03:00	Office to Warehouse	03:31	Office to Warehouse	0:30	(0:29) (Grace Time Appli	4:02
	Standard	03:31	Office to Warehouse	05:30	Office to Warehouse	1:59		6:01
	Tea Break	05:30	Office to Warehouse	05:41	Office to Warehouse	0:11	- (Grace Time Applied)	6:12
	End	05:41	Office to Warehouse	07:01	Office to Warehouse	1:19	(0:01)	7:31

Now we can see the when the user came into the building, we they took their breaks, and when they left.

6. Drag the Date and User Name fields onto the report to further filter the results using Grid View.

A R	ttendance eport	Attendance Report: Warehou	use Overnight Shi	₩ Site	: ACME	A Execute					
					Drag a column heade	er here to grou	up by that column				
	User Name	Date	Shift Name	In	In Door	Out	Out Door	Total	Deduct	Accrual	
	Angela Anderson	15/09/2014 To 16/09/2014	Start	23:00	Office Entry	01:00	Office to Warehouse	2:00 (Grace Time Applied)		2:00	
	Angela Anderson	15/09/2014 To 16/09/2014	Tea Break	01:00	Office to Warehouse	01:11	Office to Warehouse	0:10	- (Grace Time Applied)	2:11	
	Angela Anderson	15/09/2014 To 16/09/2014	Standard	01:11	Office to Warehouse	03:00	Office to Warehouse	1:49		4:00	
	Angela Anderson	15/09/2014 To 16/09/2014	Midshift Break	03:00	Office to Warehouse	03:31	Office to Warehouse	0:30	(0:29) (Grace Time Appli	4:02	
	Angela Anderson	15/09/2014 To 16/09/2014	Standard	03:31	Office to Warehouse	05:30	Office to Warehouse	1:59		6:01	
	Angela Anderson	15/09/2014 To 16/09/2014	Tea Break	05:30	Office to Warehouse	05:41	Office to Warehouse	0:11	- (Grace Time Applied)	6:12	
	Angela Anderson	15/09/2014 To 16/09/2014	End	05:41	Office to Warehouse	07:01	Office to Warehouse	1:19	(0:01)	7:31	

- 7. Viewing the report in Grid View allows us to:
 - **Resize columns** by hovering the mouse over the edge of the column header until it forms a double-headed arrow then dragging the column to the required size. We can also use the right-click menu to automatically resize your columns for the best fit.
 - **Reorder columns** by dragging and dropping a column header to a new position in the grid.
 - **Remove columns** by dragging them down from the column header section into the list. When a red delete icon appears over the column header, release the mouse to remove the column.

Printing the Report

1. To print the report, click the **Print** button.

AR	ttendance eport	Attendance Report: \	Varehouse Overnight Shi 🤿	Site: ACM	1E 🤝 👸 Execut	e Print		S
	User Name 🔺 Date							
	Shift Name	In	In Door	Out	Out Door	Total	Deduct	Accrual
т								
	() User Name: Ange	ela Anderson				Sum + (Total +)=08:01	Sum + (Deduct +)=00:30	Max + (Accrual +)=07:31
۲	② Date: 11/09/	/2014 To 12/09/2014				Sum • (Total •)=08:01	Sum + (Deduct +)=00:30	Max + (Accrual +)=07:31
	Start	23:00	Office Entry	01:00	Office to Warehouse	2:00 (Grace Time Applied)	1	2:00
	Tea Break	01:00	Office to Warehouse	01:11	Office to Warehouse	0:10	- (Grace Time Applied)	2:11
	Standard	01:11	Office to Warehouse	03:00	Office to Warehouse	1:49		4:00
	Midshift Break	c 03:00	Office to Warehouse	03:31	Office to Warehouse	0:30	(0:29) (Grace Time Appli	4:02
	Standard	03:31	Office to Warehouse	05:30	Office to Warehouse	1:59		6:01
	Tea Break	05:30	Office to Warehouse	05:41	Office to Warehouse	0:11	- (Grace Time Applied)	6:12
	End	05:41	Office to Warehouse	07:01	Office to Warehouse	1:19	(0:01)	7:31

2. A Print Preview window will open. From here you can review, save, email and export the report.

CT		Warehouse Or	ornight Sh	ift Papart		Printed: 12/09/2	2014 09:25:44
		warehouse Ov	ernight sh	пі кероп		Printed By:	Admin
Angela Ande XPI.AttendanceRepor	rson tTimePeriod				Detail Report		
	In	In Door	Out	Out Door	Total	Deduct	Accrual
art	23:00	Office Entry	01:00	Office to Warehouse	2:00 (Grace Time Applied)	۵.	2:00
ea Break	01:00	Office to Warehouse	01:11	Office to Warehouse	0:10	- (Grace Time Applied)	2:11
andard	01:11	Office to Warehouse	03:00	Office to Warehouse	1:49	-	4:00
idshift Break	03:00	Office to Warehouse	03:31	Office to Warehouse	0:30	(0:29) (Grace Time Applied)	4:02
andard	03:31	Office to Warehouse	05:30	Office to Warehouse	1:59		6:01
a Break	05:30	Office to Warehouse	05:41	Office to Warehouse	0:11	- (Grace Time Applied)	6:12
nd	05:41	Office to Warehouse	07:01	Office to Warehouse	1:19	(0:01)	7:31
				Total	8:01	(0:30)	7:31
	M.		0-20 SA 18				

Contact

Integrated Control Technology welcomes all feedback.

Please visit our website (http://www.ict.co) or use the contact information below.

Integrated Control Technology

P.O. Box 302-340 North Harbour Post Centre Auckland New Zealand 11 Canaveral Drive Albany North Shore City 0632 Auckland New Zealand

Phone:	+64-9-476-7124
	Toll Free Numbers:
	0800 ICT 111 (0800 428 111) - New Zealand
	1800 ICT 111 (1800 428 111) - Australia
	1855 ICT 9111 (1855 428 9111) - USA/Canada
Email:	sales@incontrol.co.nz or support@incontrol.co.nz
Web:	www.ict.co



Integrated Control Technology Limited

11 Canaveral Drive, Albany, Auckland 0632 P.O. Box 302-340, North Harbour, Auckland 0751, New Zealand **Email: support@incontrol.co.nz** Phone: +64 (9) 476 7124 Fax: +64 (9) 476 7128 Designers & manufacturers of integrated electronic access control, security & automation products. Designed & manufactured by Integrated Control Technology Limited. Copyright © Integrated Control Technology Limited 2003-2011. All rights reserved.

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