

Pro-Watch® 4.X

Honeywell

Pro-Watch Basic Certified Installer Course Manual Ver. 12 Sept 2013



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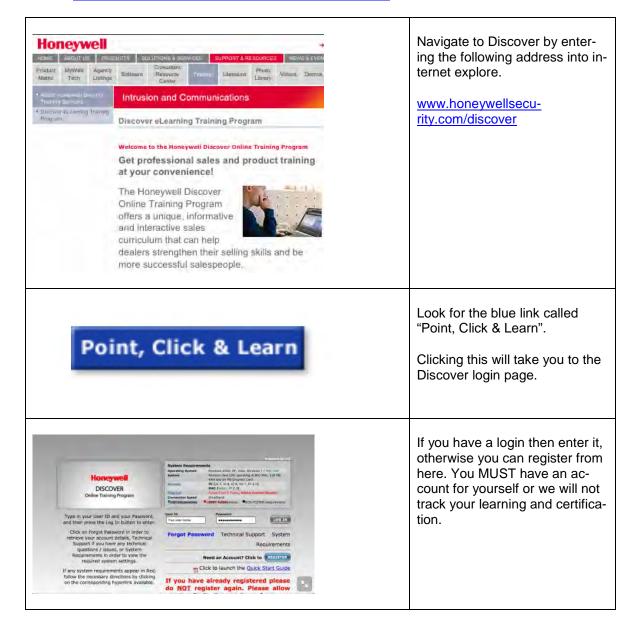
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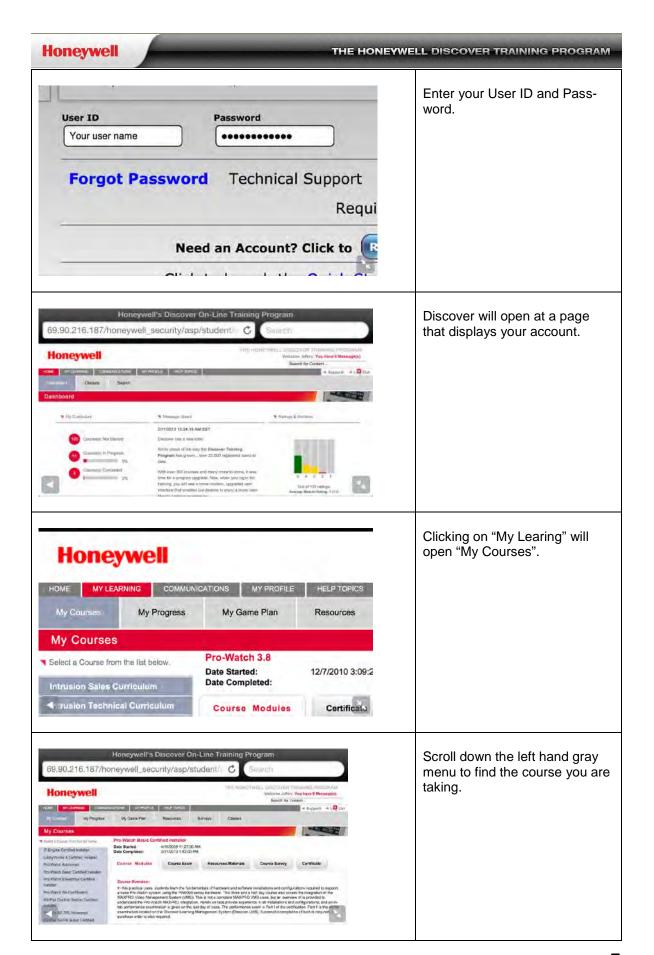
Honeywell Discover Online Training Class Registration

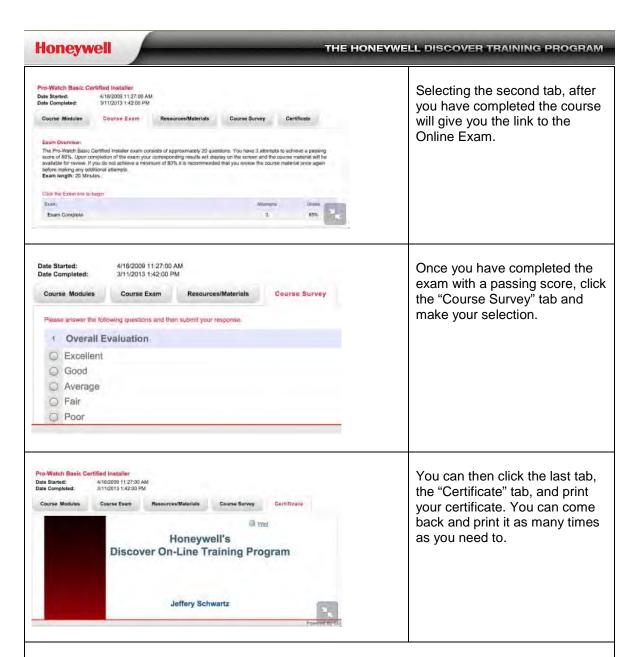
Quick Start Guide

I. <u>Accessing instructor-led class exam in Discover</u>:

 Log in to Discover using your User ID and Password (they are case sensitive) at http://honeywelldiscovertraining.com

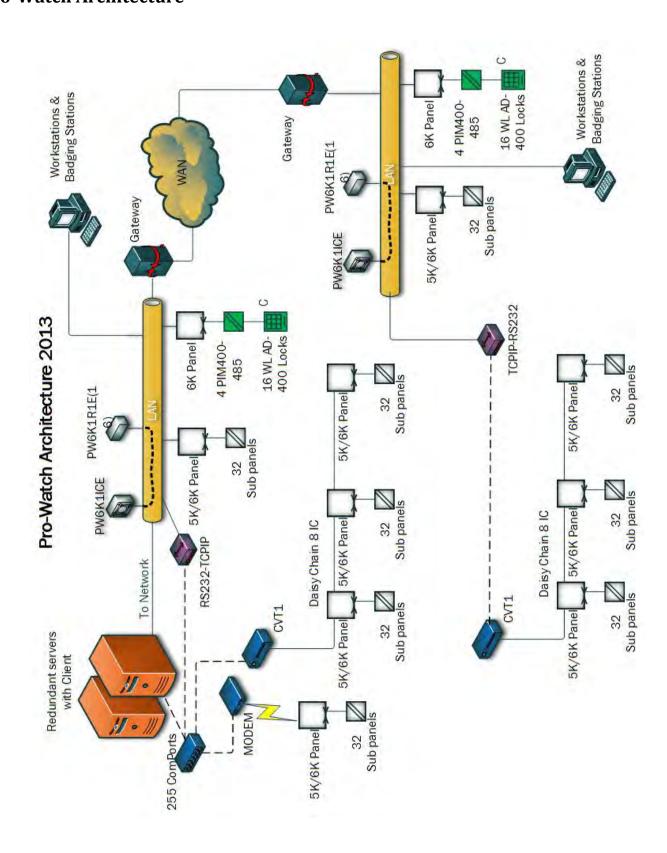






Still having challenges with Discover? Check out the Quick Start Guide on Discover's home page, or contact customer service at (800) 223-9436 and someone will be available to assist with registrations and general questions.

Pro-Watch Architecture



Types of Pro-Watch

The Different Versions of Pro-Watch

	PW Lite	PW Professional	PW Corporate	
Readers	32	32-64	96 - 20,000	
Clients	1-3	1-5	1- unlimited	
Badging Clients	0	1-5	1- unlimited	
Clearance Codes per Badgeholders	12	32	32	
SQL2005 express	×	×		No Schedule 4GB
SQL2008 Express	×	×	×	No Schedule 4GB
SQL2005			×	
SQL2008			×	
War 86 SEB				And A Popularies
Win Vista Business 32 bit	×	×	×	
Win 7 Profesional /Ultimate 32 or 64 bit	×	×	×	Stand alone
Win 2003 Server	×	×	×	
Win 2008 Server 32 or 64 bit	×	×	×	
Elevator Control			128 Floors	



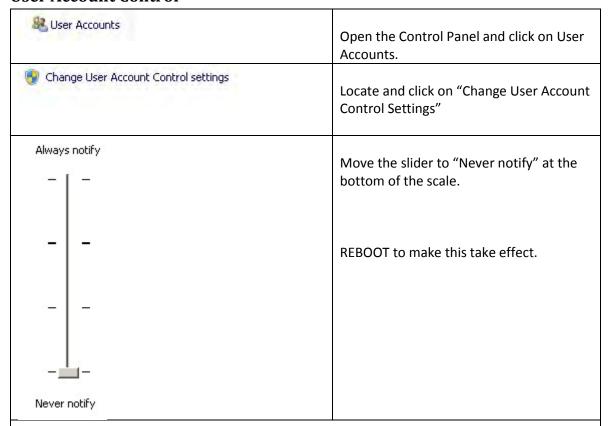
1 Pro-Watch 4.0 Installation

The installation of 4.0 is very close to the installation of 3.80 and 3.81. The biggest difference is the installation of the Web Client.

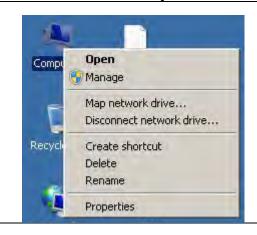
Pro-Watch 4.0 only requires dotNet3.5 BUT the Web client requires dotNet4.0 (dot-

NetFx40_Full_x86_x64). If you feel you will be using the Web Client then install dotNet4.0 before you start the Pro-Watch install.

User Account Control

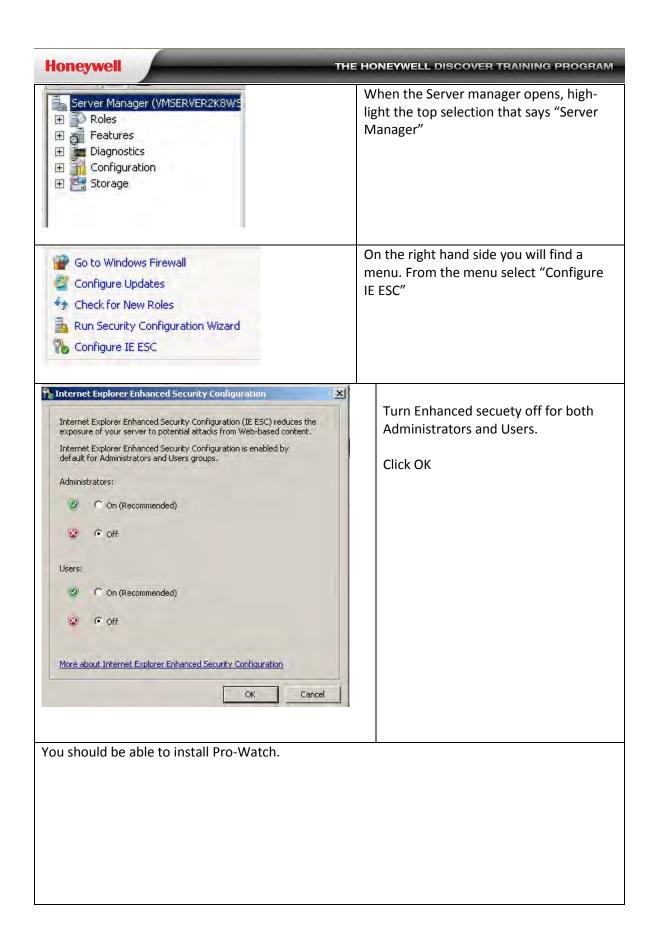


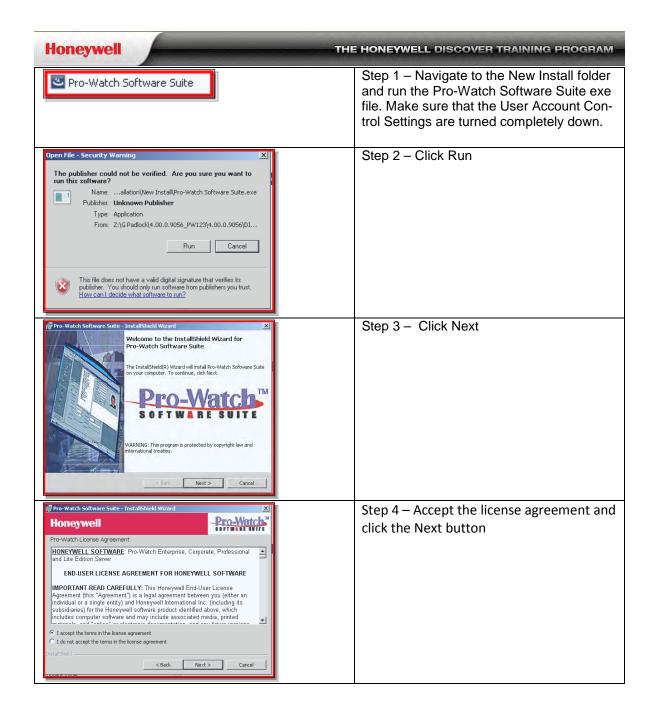
IE Enhanced Security

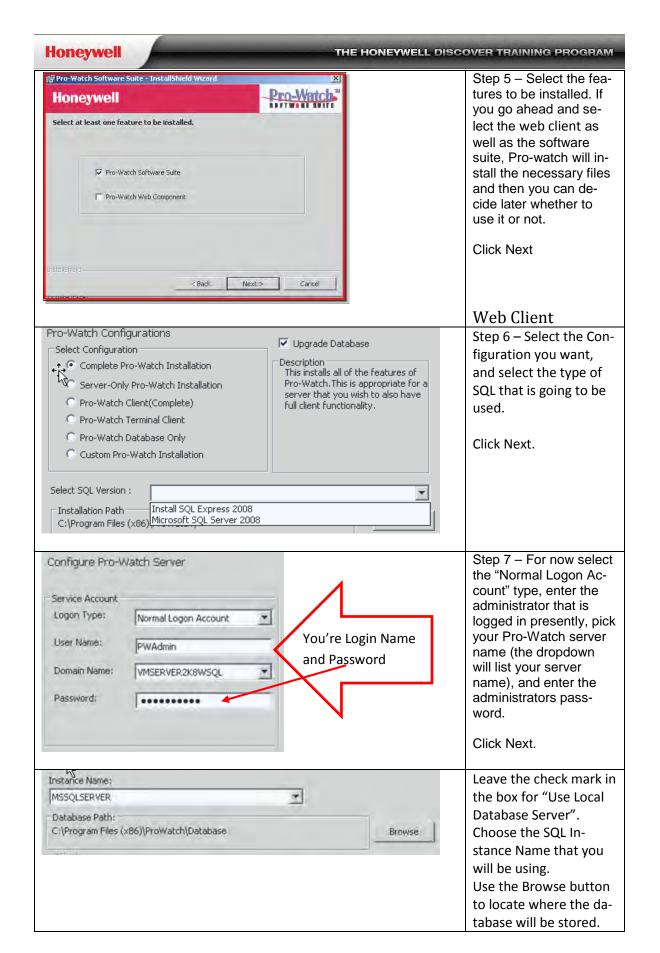


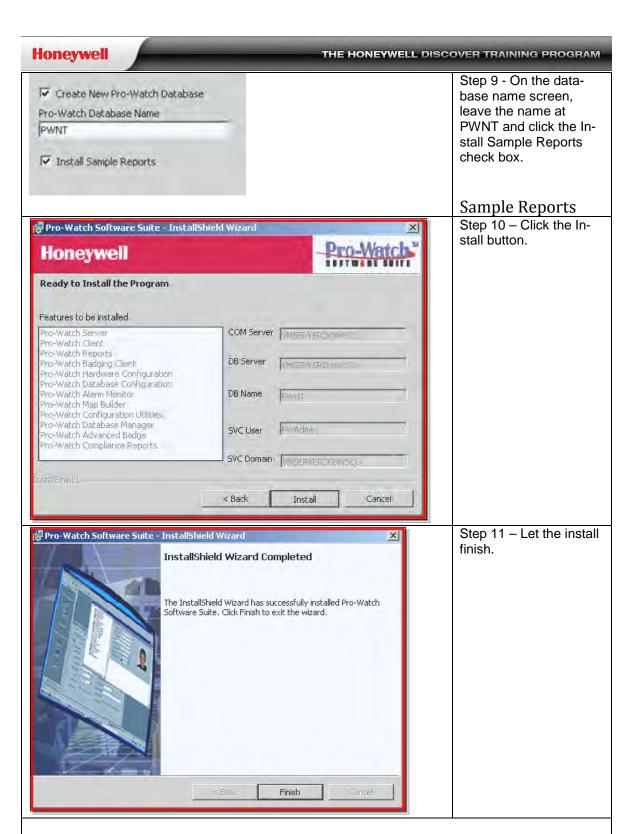
Next you have to turn off IE Enhanced Security or you will not be about to edit the PW6000 IC option when you log in to set the static IP address.

Right click on Computer and select Manage.









When the installation completes, be sure to reboot the server. After the server reboots you may find that you get a message that says that the client cannot connect to the server. This indicates that the Pro-Watch Server service is not started. There is also a problem with the service startup type and user. SEE Lab $1-Part\ 2$

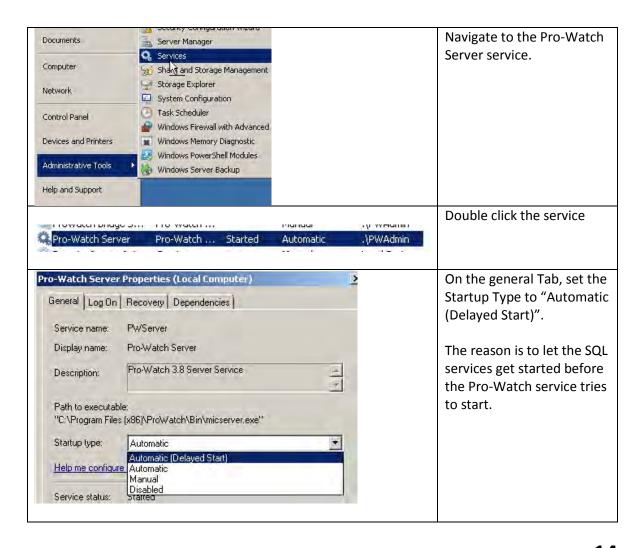
Backwards Compatibility Patch - Install the SQL Backwards Compatibility Patch and reboot again. (Disk 1/64-bit updates to Server/64-bit Enterprise Manager Fix/SQL 2005 Backwards Compatibility/Pick the package(IA64,x64,or x86) that matches your installation. NOTE: If you pick the wrong one it will tell you before it runs. Go back and pick the correct one.

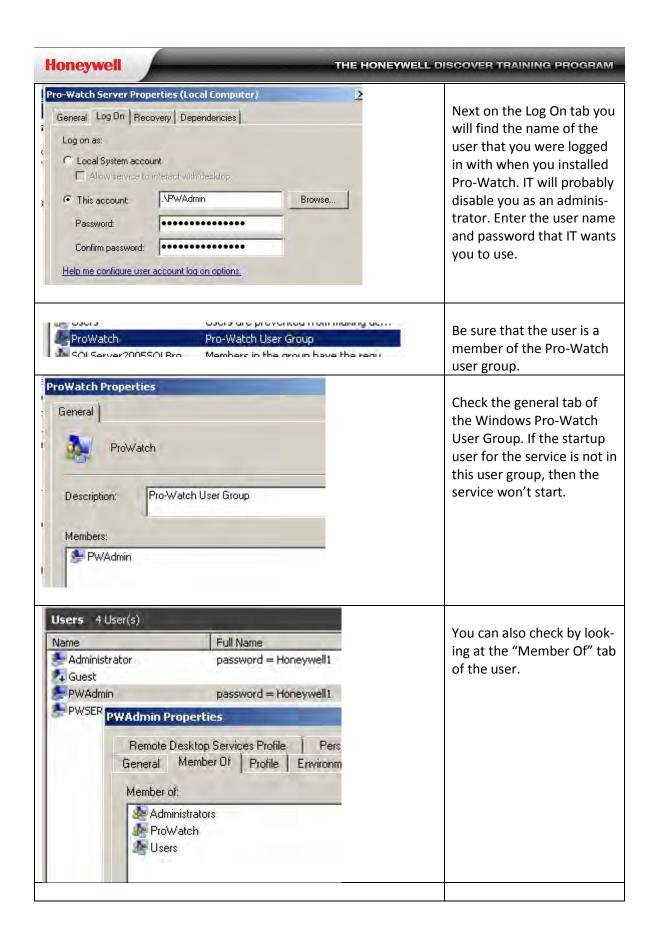
Lab 1

Lab 1 - Part 1 - Install Pro-Watch 4.0.

- a. Install with Sample Reports but not the Pro-Watch Web Component.
- b. Install the SQL Backwards Compatibility Patch and reboot again.

Lab 1 - Part 2 - Fix Pro-Watch Server Service



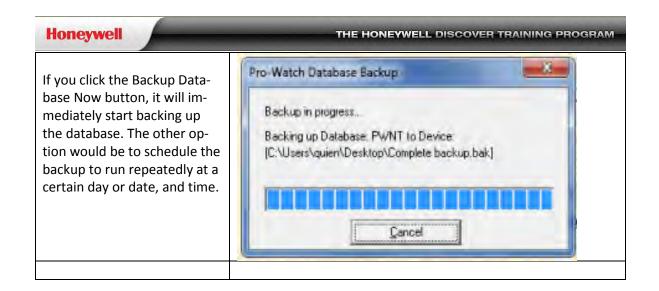


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Lab 1 - Part 3 - Do an Immediate Backup. Put the backup file on the Desktop.

Select the Pro-Watch Enterprise Manager menu item 1 Expand the menu and select the Pro-Watch SQL Servers

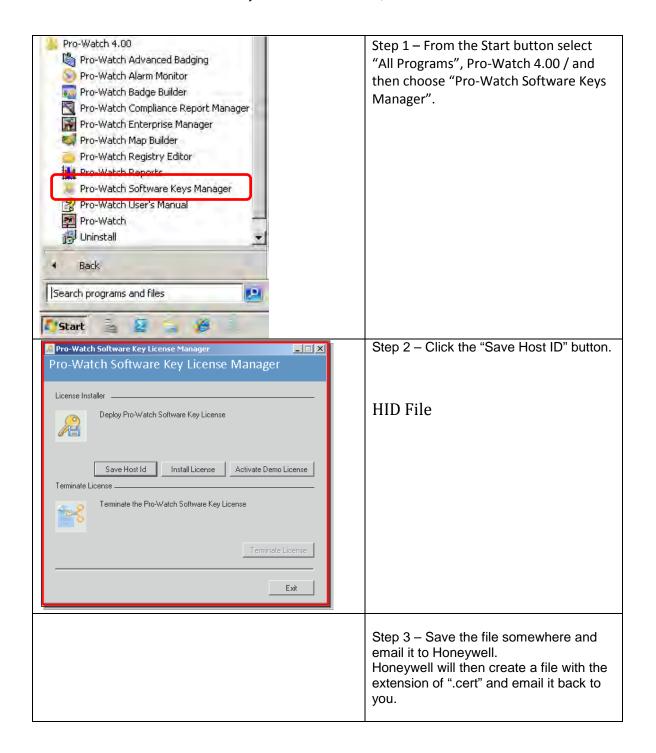
QUIEN-PC\SQLEXPRESS Backup Database item. **Backup Database** Restore Database
Device Maintenan By default the Complete Backup Database: FWNT • radio button will be selected. Name: PWNT backup Enter a description for your backup. Enterprise • Complete Database Backup Decide if the backup will be a ○ Transaction Log Backup complete or a differential. File and Filegroup Backup Click the Next button. Next>> Next>> Pro-Watch Database Ma Console Tools Help Use the ellipses browse but-QUIEN-PC\SQLEXPRESS **Backup Destination** Backup Database ton to locate the place you Device Maintenance Schedule Maintenance want to store the backup and View then give the backup a name. No Devices Defined -Use the file extension of .bak. C:\Users\quien\Desktop\test backup.bak You also want to decide if this backup is going to be ap-Overwrite: • Append to Media pended, or added to the pre-C Overwrite Existing Media vious backup, or whether it will replace the previous Schedule >> Options >> Backup Database Now backup.

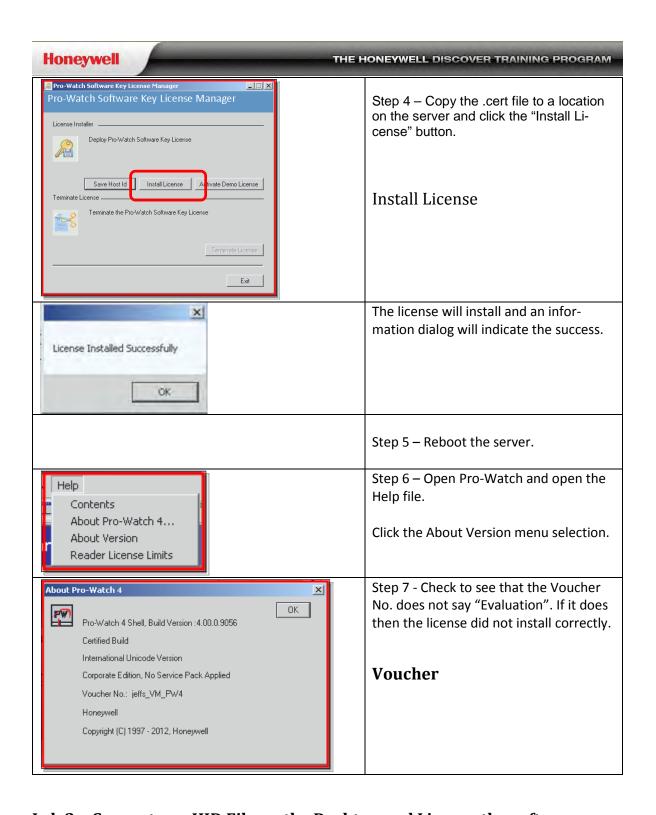




2 - HID and License

The Licensing process is very simple. Create an HID file, email it to Honeywell, Honeywell will email back a .cert file. Run the license utility to install the .cert file, and then reboot.

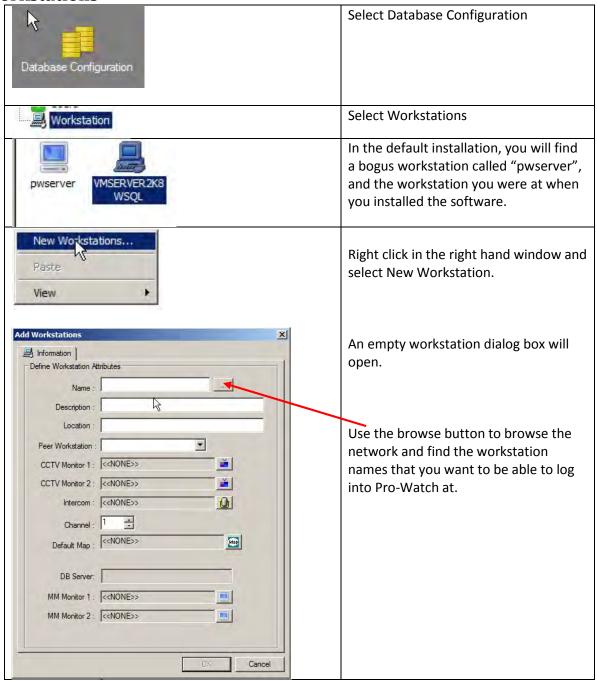


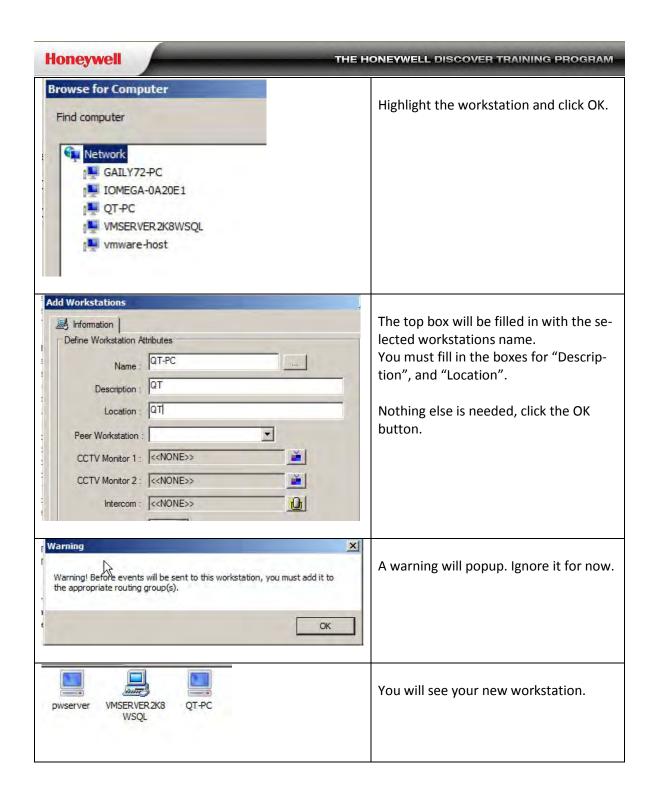


Lab 2 - Generate an HID File on the Desktop and License the software.

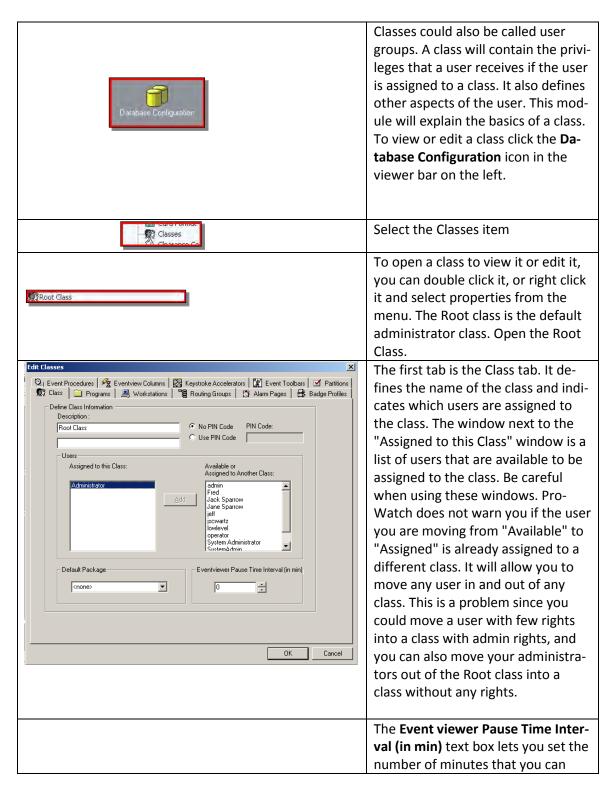


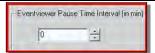
3 - Workstations



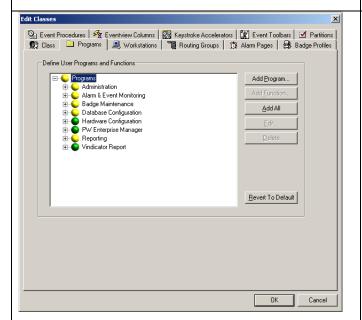


17 - Classes

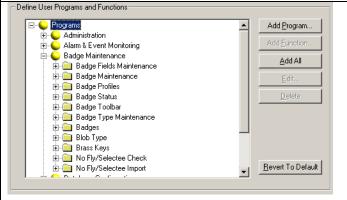




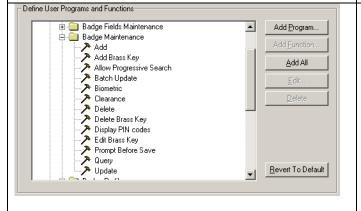
pause the Event viewer. By default the event viewer continuously scrolls events down the screen as they occur. You can pause the screen. This setting determines how long it will stay paused.



The programs tab defines what a user can do in Pro-Watch. Each of the topics was many options so that you can precisely define what a user can do. There are three colors associated with the tree. Red means no rights, yellow means partial rights, and Green means that everything is enabled. You don't necessarily want everything to be green. Some of the things that are turned off by default are things that limit, or cause the user to fill out data in a note when they do things.

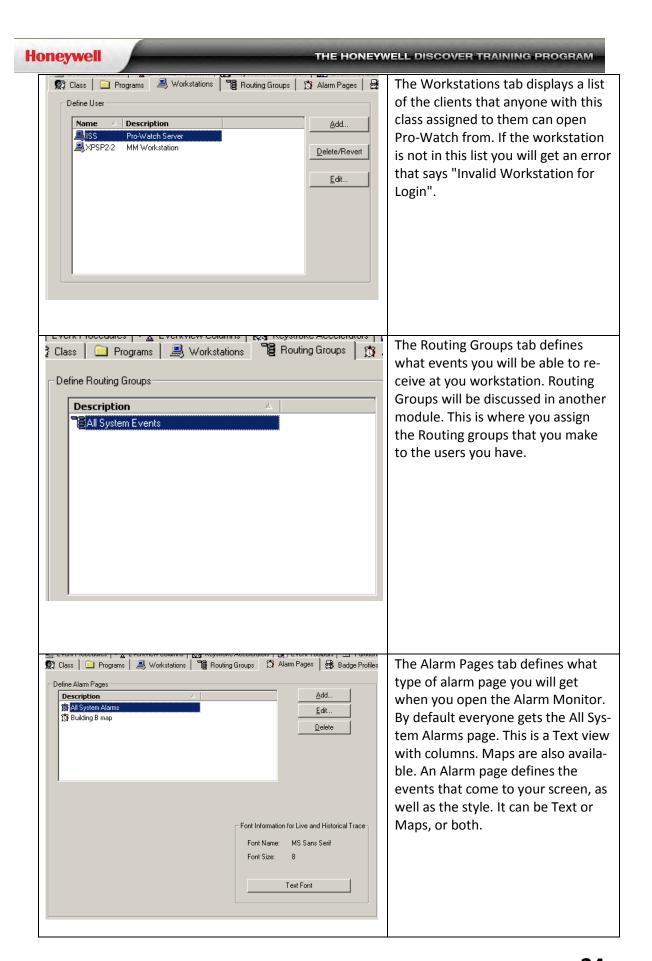


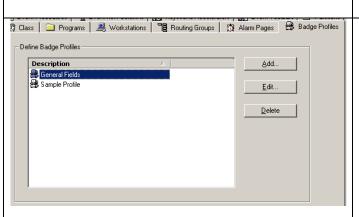
If you expand a section it opens a list of the things that you can control.



If you expand one of those you get a list of the things you can do with that selection. The things with a folder are Programs, and the things with a hammer are functions. To set the controls on a program you add or delete functions.

Browse through the settings for the Programs to become familiar with them.





Finally, the Badge Profiles tab determines which Badge Profile you will have assigned to you as a user. A Badge Profile is a graphic layout of the data you can view when you look at the card holder data.

Description

Badging Administrator

Database Administrator

Default

Hardware Administrator

Monitoring Administrator

Reports Administrator

Root Class

Video Surveillance Administrator

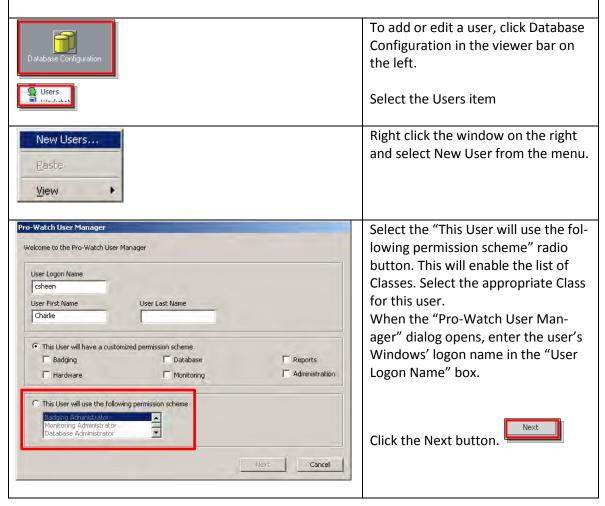
There are several basic classes already setup in Pro-Watch. They lay out the abilities that are generally needed to perform the function they are named for. The only exception is the Default Class. This one should be left alone. Users that are not assigned to a particular class get the default class assigned to them. This will be discussed more in the module on Users not in a Class.

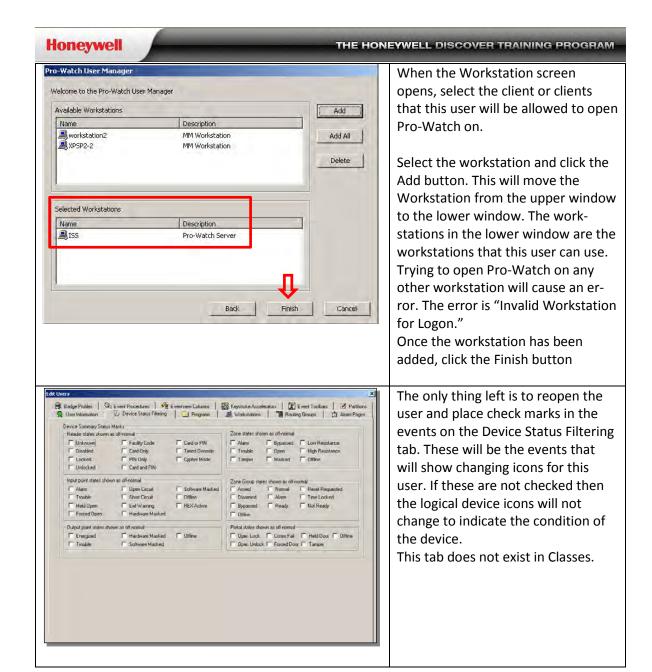
You are not limited to just these classes. You can make your own from scratch, or these can be copied and then edited to fill your specific needs.

To make your own Class, Right click the window and select New Class from the menu. You will then need to fill out all of the data in the bottom row of tabs.

18 - Users

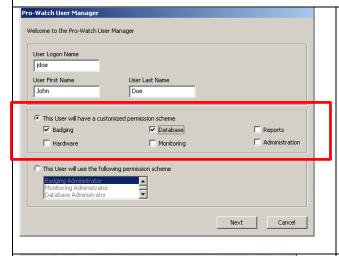
A User in Pro-Watch is a person who needs to open the software suite for any reason. Some users have administrator rights and some may only have the right to open the alarm monitor and watch alarms occur. The rights and options that apply to a user come from the Class that they belong to. The class passes down all of the settings for the user. You do have the ability to reedit all of these settings at the user level. Any changes at the user level only affect the one user being edited.





19 - Users from Roles instead of a class.

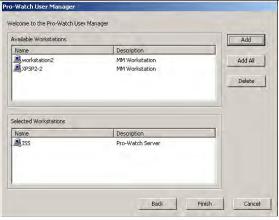
A User in Pro-Watch is a person who needs to open the software suite for any reason. Some users have administrator rights and some may only have the right to open the alarm monitor and watch alarms occur. The rights and options that apply to a user come from the Class that they belong to. The class passes down all of the settings for the user. You do have the ability to reedit all of these settings at the user level. Any changes at the user level only affect the one user being edited.



Open the New User wizard the same way you did in the previous section. Fill out the Logon Name, User First Name, and the User Last Name.

This time you will choose one or more of the roles in the section named "This User will have a customized permission scheme".

These permissions are the "Roles" for this user.



Click Next and move the appropriate workstations from the "Available" workstations window to the lower "Selected" workstations window.

After selecting the workstations, click the Finish button.



Reopen the User Properties.

Notice the **Class Id** text box. The Default class is used for all users that use the Permissions roles. Do not edit the Default Class as it will affect all permissions users. If a Permissions user needs to be edited, do it at the user level, not the class level.

It is still necessary to check the boxes on the "Device Status Filtering" tab.

Lab - Users from Class

- 1. Click Database Configuration.
- 2. Select the Users item
- 3. Select the New Users... menu item
- 4. Enter the Windows Logon Name of "jbourne".
- 5. Enter Jason for the User First Name.
- 6. Enter "Bourne" for the User Last Name.
- 7. Select the This User will use the following permission scheme radio button
- 8. Click the scroll bar
- 9. Select the Monitoring Administrator item
- 10. Click the **Next** button
- 11. Select the Workstation name that this user will be using.
- 12. Click the **Add** button
- 13. Click the **Finish** button
- 14. End of Lab

Lab - User Roles from Permissions

- 1. Select the Database Configuration item.
- 2. Select the User item
- 3. Right click the right hand window.
- 4. Select the New Users... menu item
- 5. Enter "jdoe" for the User Logon Name.
- 6. Enter John for the User First Name.
- 7. Enter Doe for the User Last Name.
- 8. Under the heading of "This User will have a customized permission

scheme, Select the **Badging** check box

9. Select the **Database** check box

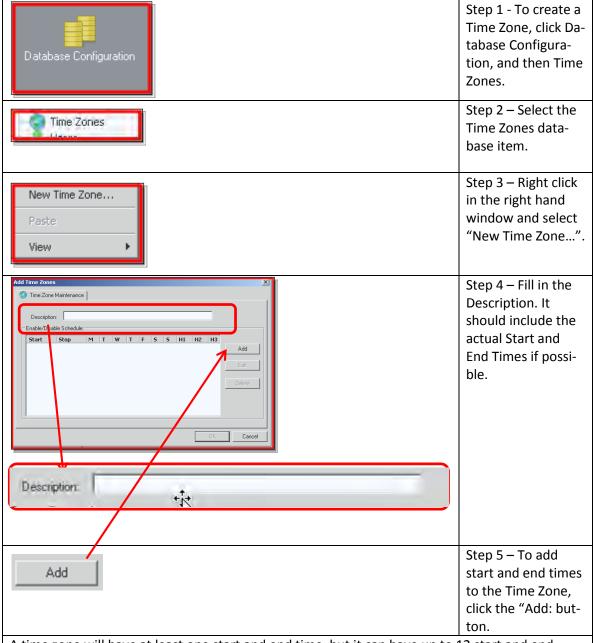
These Permissions are the "Roles" for this user.

- 10. Click the **Next** button
- 11. Select the workstation that this user will logon from.
- 12. Click the **Add** button
- 13. Click the **Finish** button
- 14. Double-click the **John Doe** item
- 15. Notice the **Class Id** text box. The Default class is used for all users that use the Permissions roles. Do not edit the Default Class as it will affect all Permissions users. If a Permissions user needs to be edited do it at the user level, not the class level.
- 16. Select the **Programs** tab and notice that the permissions you checked have now turned on certain programs.
- 17. Click the OK button.
- 18. End of Lab.

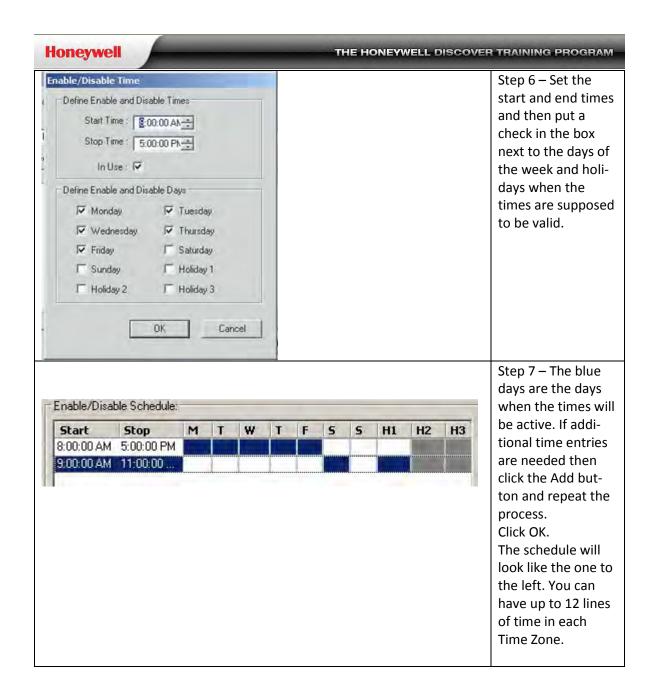


4- Time Zones

Time zones are used to automatically control devices and allow access to valid cards. These should be built before you build the panels since they have to be uploaded to the panels.



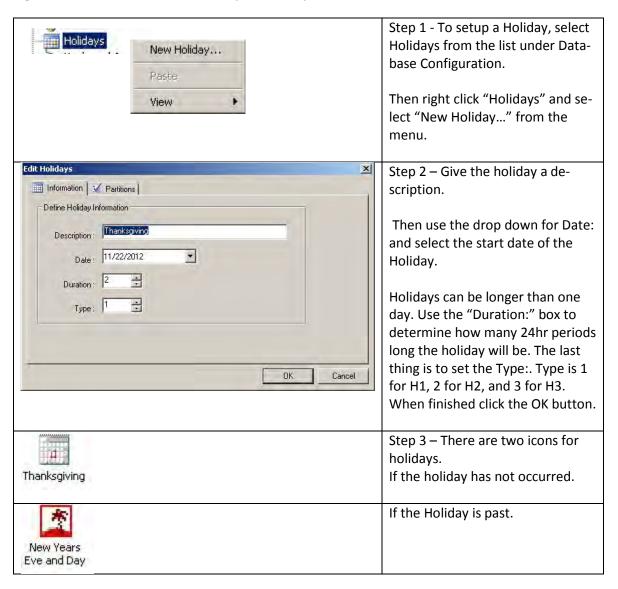
A time zone will have at least one start and end time, but it can have up to 12 start and end times. It is designed this way because you can only assign one time zone to a device or a clearance code. If conditions for the operation of a device require different times for normal or holidays then all of those conditions need to be in a single time zone.





5 - Holidays

Holidays are actually just dates during the year that have been designated as an H1, H2, or H3 day. No matter what day of the week the holiday falls on the device will follow the time zone that has a blue mark in the H1, H2, or H3 line of time. It will ignore the normal times. A holiday starts at midnight and lasts a minimum of 24Hrs up to 365 days.



All holidays can be opened and then edited for the next time the holiday occurs.

Lab 3 - Create Time Zones and Holidays

To make a time zone select Database Configuration from the viewer bar at the right. Then scroll down until you locate the menu selection for Time Zones.



- 1. When you have highlighted the Time Zones menu selection, right click the right hand window.
- 2. Select the New Time Zone... menu item



- 3. When the Add Time Zones dialog opens it is necessary to enter the time zone description. In this case the description is 8am to 5pm Monday thru Friday. .
- 4. Click the **Add** button
- 5. Enter the start and end times. In this case the start time is 8am and the end time is 5pm.
- 6. Next select the days of the week that you want the time zone to be effective on.
- 7. Select the **Monday** check box
- 8. Select the **Tuesday** check box
- 9. Select the **Wednesday** check box
- 10. Select the **Thursday** check box
- 11. Select the **Friday** check box
- 12. After the start times, end times, and days of the week have been selected, click the OK button to close the dialog.

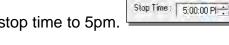
- 13. After creating the time zone, click the OK button to save and exit the Add

 Time Zone dialog box.
- 14. Add a second Time Zone. Right click the right hand window.
- 15. Select the **New Time Zone...** menu item
- 16. When the Add Time Zones dialog box opens, enter the Description. 8am-5pm M-F and Holidays
- 17. Click the **Add** button
- 18. After entering the times select the days of the week and which holidays to have this time zone effective.
- 19. Select the Monday check box
- 20. Select the **Tuesday** check box
- 21. Select the **Wednesday** check box
- 22. Select the **Thursday** check box
- 23. Select the **Friday** check box
- 24. Select the **Holiday 1** check box
- 25. Click the **OK** button
- 26. When the time zone is completed, click the OK button to save and close the window.
- 27. Add another Time Zone.

- 28. Right Click the Right Hand window
- 29. Select the **New Time Zone...** menu item



- 30. Make a Time Zone named Gate Operator
- 31. Click the **Add** button
- 32. Set the start time at 7am and the end time at 8am Select the **Monday** check box
- 33. Select the **Tuesday** check box
- 34. Select the **Wednesday** check box
- 35. Select the **Thursday** check box
- 36. Select the **Friday** check box
- 37. Click the **OK** button
- 38. Click the **Add** button
- 39. Set the start time to 4pm and the stop time to 5pm.



- 40. Select the **Monday** check box
- 41. Select the **Tuesday** check box

42. Select the **Wednesday** check box



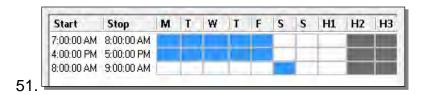




47. set the start time to 8am and the end time to 9am.



- 49. Click the **OK** button
- 50. Your window should look like this.



52. Click the OK button to close the window



- 53. End of Time Zone LAB
- Holidays and Time zones work together. In Time Zones you saw the H1, H2, and H3 boxes. These refer to the three different types of Holidays that are supported in the PW series panels. The rest of the panels can only support

the H1 type of holiday. Having three different types of holidays gives you more flexibility.

- 2. From the viewer bar on the left select the Database Configuration menu item.
- 3. Select the item
 After finding Holidays, right click the right hand window.
- 4. Right Click
- 5. Click the New Holiday... menu item
- 6. Select the Description text box When the Add Holidays dialog opens give the Holiday a name. In this case it will be July 4th.
- 7. The next step is to pick the starting date. Selecting the drop down box for the date will open a calendar.
- 8. Using the calendar, locate the starting date for the holiday. It is the starting date because holidays can last for more then one 24 hour period.
- 9. Using the duration box, select how long the holiday will last. The number represents days up to 365 days.
- 10. The Type text box allows the user to select whether the date is an H1, H2, or an H3 type date.
- 11. When you have added the description, the date, the duration, and the type, click the OK button to save and exit the Add Holidays dialog.
- 12. The new holiday has been added to the list and you can see that it is a calendar, while the other holiday is red. The calendar holidays are dates that have not occurred yet and the red ones are the past holiday dates.
- 13. The dates now have to be down loaded to the appropriate control panels. This has to happen every year because none of the dates in Pro-Watch can be setup as re-occurring dates. You do not have to create new holidays every year though. All that has to be done is to update the date on the existing holidays.
- 14. Double-click the red holiday. In this case it's the New Year's Eve and Day Holiday.
- 15. Select the Date dropdown list
 - Every year some of the holiday dates change. There are two ways to update the expired holidays. Once they are opened you can click the date drop down and use the calendar, or select the part of the date that you want to update. In this case the month and days are the same, but the year is wrong so we just click the year part of the date. Now either type in the new year or use the up and down arrow keys to change the date.
- 16. We used the up arrow to change the year to the current year.

- 17. The holidays can now be uploaded to the control panels.
- 18. As a reminder of how to select the way holidays affect the system, open the time zone database.
- 19. Right Click
- 20. Remember that there are three types of holidays. For each line of time you can determine how the time zone will function on the holiday. If you do NOT want anything to happen on the holiday then don't select any holiday types. If you DO want the line of time to be in effect ON the holiday then se-

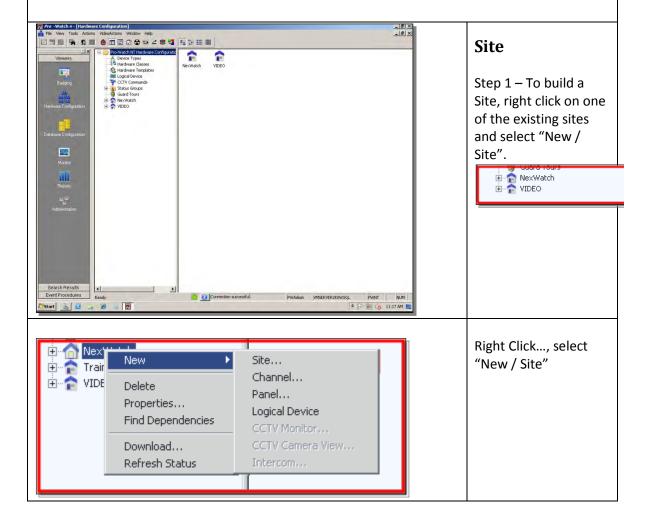
lect the appropriate holiday type.

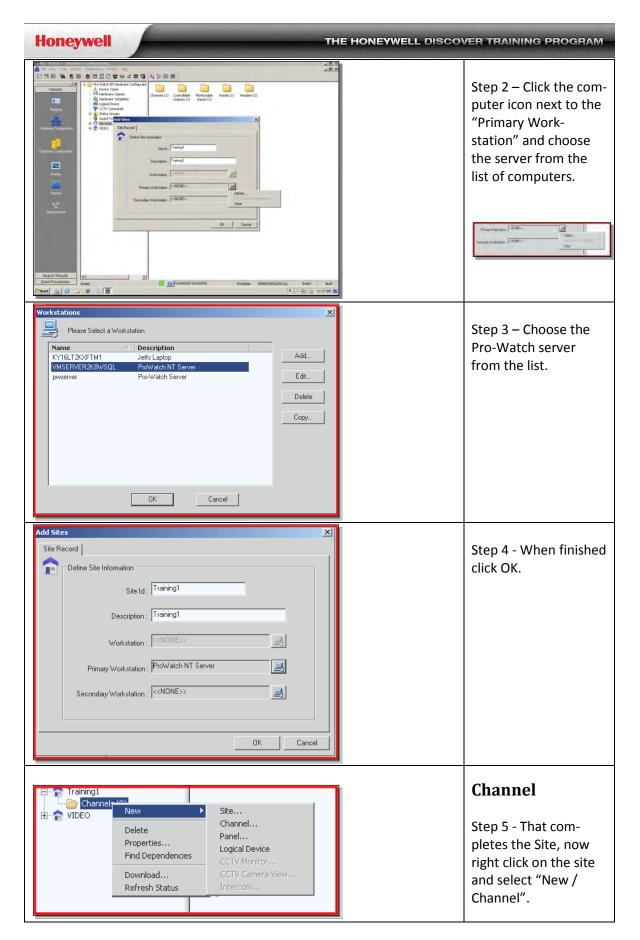
As the system is being built it is necessary to organize the hardware in a manner that is logical. Pro-Watch uses the term "Site" as the top "folder" in the tree of hardware devices. The process is to build a site, then a channel and then a panel.

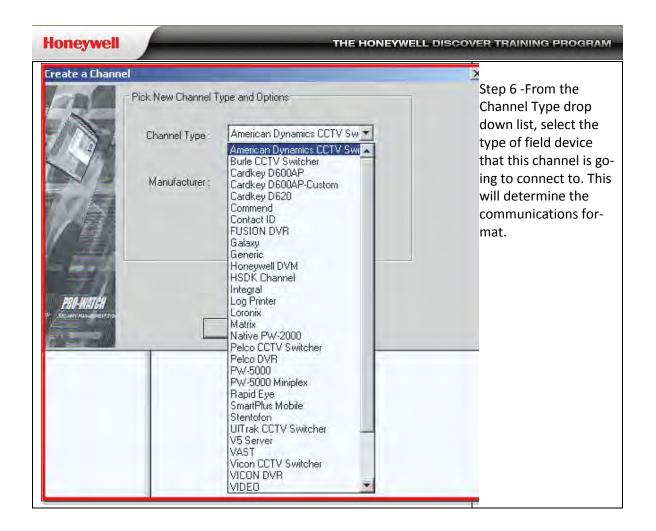
The Site references the Pro-Watch server. All of the sites will always reference the same server since it is the server for all of the sites that attach to it.

The channel is the communications path between the server and the field hardware. There are several types of communications paths available but only one type will be built for each panel, unless that panel is using redundant communications, in which case there will be two communications paths for each panel.

The panel is going to be of several types. An example of a panel would be a PW6000 IC and all of its' down stream IO Boards.

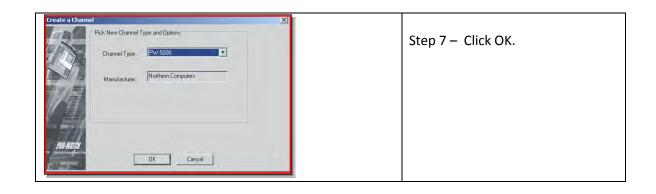


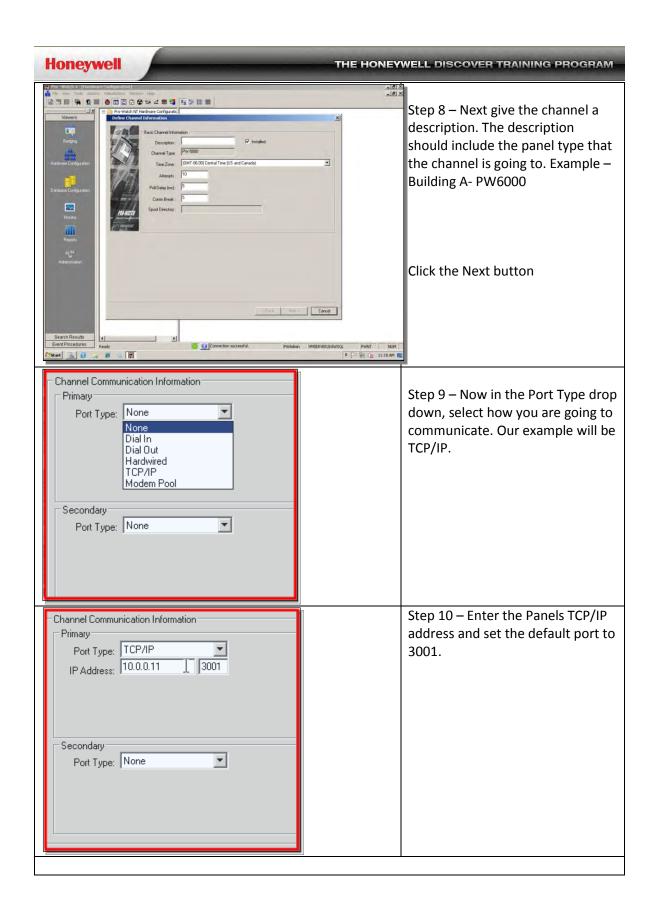


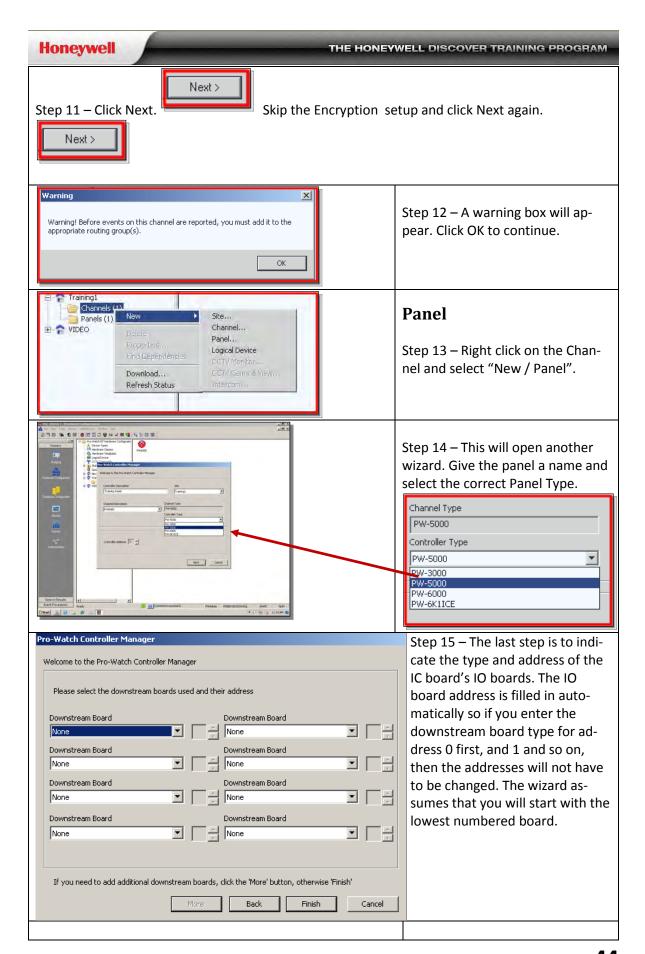


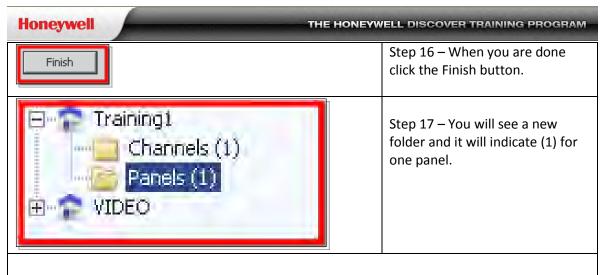
For this example select the PW-5000 for communicating to a PW3000, PW5000, PW6000, and a PW6100.











This completes the section on creating a Site, Channel, and a Panel.

Lab 4 - Site, Channel, Panel

Site

- 1. Sites are found by clicking the Hardware Configuration icon in the viewer bar on the left.
- 2. A site is indicated by the little house symbol. If you right click any existing site, you will get a menu that allows the user to create a new site.
- 3. Select one of the existing sites
- 4. Right Click the Site
- 5. Select the New menu item
- 6. Click the **Site...** menu item
- 7. The Site ID is the SQL name so it is limited in characters and can not contain any spaces.
- 8. Type in a Site ID.
- 9. The Description is the name you will see in the hardware tree.
- 10. Type in a Description.
- 11. Click the icon of a computer on the right of the Primary Workstation text box to browse the list of workstations.
- 12. Select the **Define...** menu item
- 13. When the **Workstations** dialog opens, it will be a list of the workstations in the Pro-Watch database.
- 14. Select the **Prinary Server** workstation.
- 15. Click the **OK** button

Channel

1. A Channel in Pro-Watch is the path that communications takes from the

server to the hardware. The channel types are named by the type of equipment they go to. Pro-Watch then knows what format the data will be in. That way Pro-Watch can interpret the data that is being transmitted.

- 2. To add a channel, select the channel folder in the site you are working with, and then right click it to open a menu.
- 3. Next select "New" from the menu, and then select the Channel item from the menu.
- 4. Use the dropdown for Channel Type, to find the appropriate one. In this case select the PW5000 channel type. Use the PW5000 even if you are connecting to a PW6000.
- 5. Click the **OK** button
- 6. Next, give the channel a Description. Remember that there can be multiple channels in this one folder, so a good description is imperative. Call this one Demo Channel.
- 7. Use the Time Zone entry box to choose the time zone that the PW panel will be in. Use the Central Time Zone.
- 8. Click the **Next >** button to continue.
- 9. The drop down contains the possible communications paths, or channels, that can be used with a PW pannel. Select the TCP/IP Port Type
- 10. There are only two things that you need to know.
 - What TCP/IP address is the panel going to be set to. and
 - 2. What port will it be communicating through.

The port address goes in the second smaller box. Set the Panel Address to the address the instructor told you, and set the port to 3001.

- 11. When the port communications are completed, click the NEXT> button to continue.
- 12. We are not setting up encryption, so click the NEXT> button again.
- 13. We are not putting this panel in a Partition. Click the NEXT> button.
- 14. The warning is to remind you that if you have made any custom routing groups before you made this channel, then you will need to add this channel to the ones you have made.
 - 15. Click the OK button

This is the End of the Channel LAB.

Panel

- 1. The first step is to right click on the channel folder of the Site that this panel will belong to. This will open a menu.
- 2. Click the New menu item.
- 3. Select the **Panel...** menu item
- 4. Select the Site drop down box, and select the Site that your panel will be in.
- 5. Select the **Channel Description** drop down box, and pick the channel that was created for this panel.
- 6. After the channel is selected a new set of options appear. It is the Controller Type option. Here you will select what type of IC board you are going to

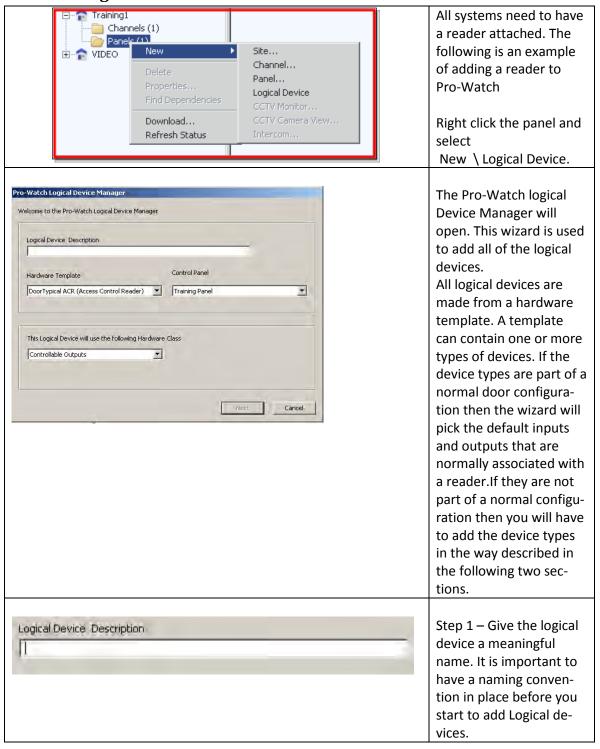
communicate with. In our case it will be the PW6000 type controller.

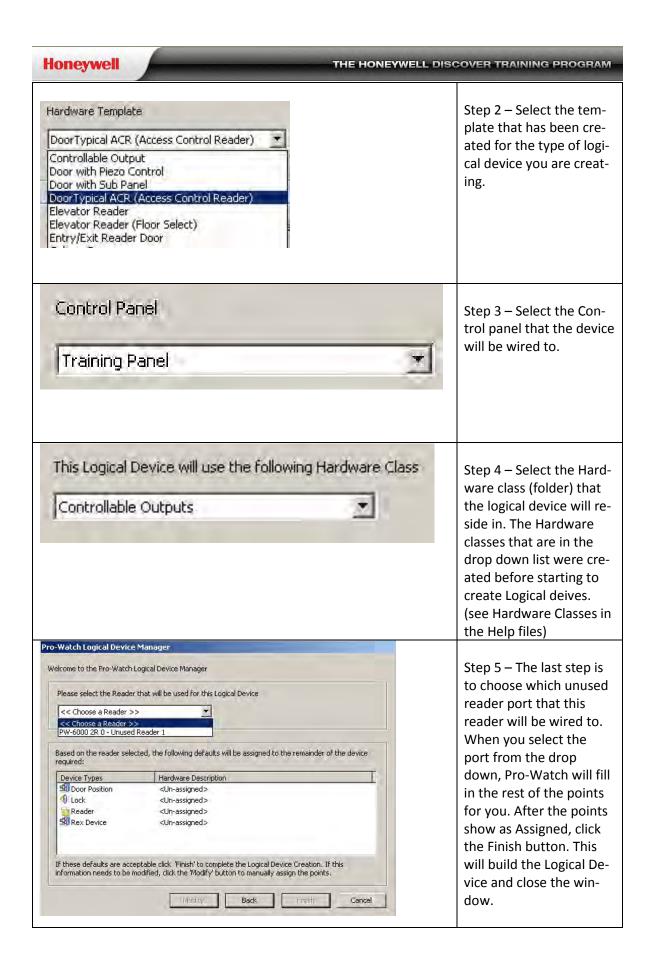
- 7. Select the PW-6000 item
- 8. In the Controller Address box enter the PW6000 Communication Address of the IC. This would have been on the on the Host Port menu when logged into the PW6000 IC. The default is 0 in both the IC and Pro-Watch.
- 9. In the Controller Description text box give this panel a name. Since Pro-Watch will allow duplicate names, you need to develop a naming convention before you start programming so that the user will be able to distinguish which item is which.
- 10. Click the **Next** button
- 11. This screen allows the user to assign IO, or, downstream boards, to this IC. At present you can only add 8 through the wizard. If there are more then they have to be added one at a time from the panel properties dialog box.
- 12. Use the dropdowns to select the type of IO boards, and then select the addresses of them.
- 13. After entering and addressing the IO boards, click the Finish button to close the dialog and create the panel.
- 14. End of the Adding a PW6000 panel Lab.



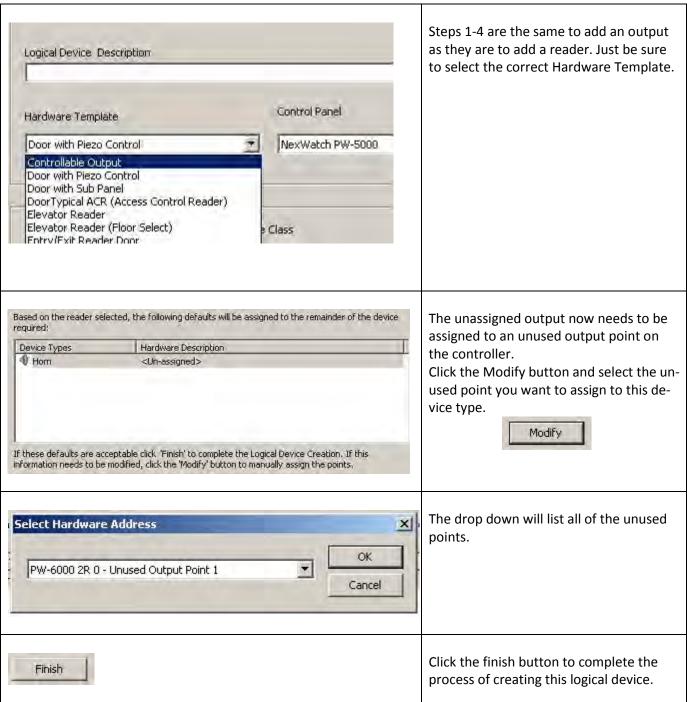
7 - Logical Devices

Adding a reader

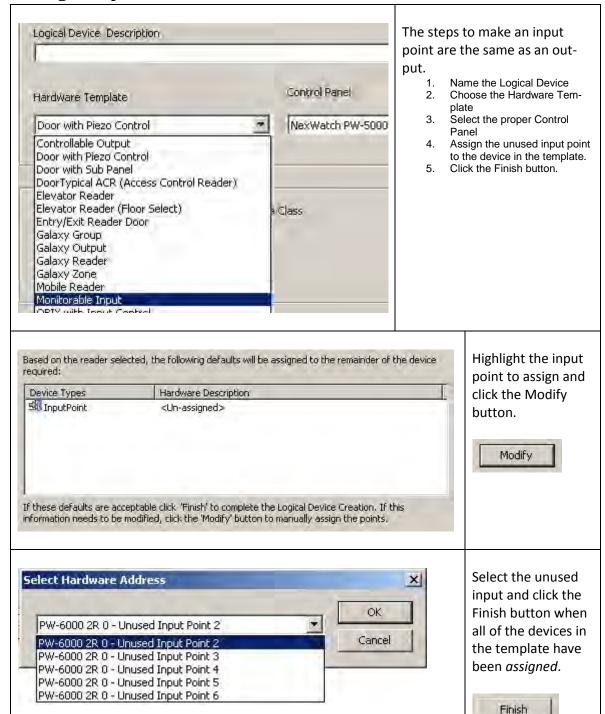




Adding an Output



Adding an Input Point



Lab - 5 Logical Devices

All logical devices have to be created by referencing a panel, and a template. The template you select will determine what device types will be in the logical device. A Logical Device is made by mapping the unused points from the panels IO boards, to the device types in a template. In this case we are going to make a logical device for the lobby door. As with access control doors, the door will have a reader, a lock, a door position switch, and a request to exit button.

- 1. To create a logical device, select the panel it will be controlled from.
- 2. Right Click the panel to open a menu.
- 3. Click the New menu item
- 4. Click the **Logical Device** menu item
- 5. When the **Pro-Watch Logical Device Manager** dialog opens, give the logical device a meaningful name. Example: Lobby Door
- 6. Next use the drop down to find the correct template.
- 7. Select the DoorTypical ACR (Access Control Reader) item
- 8. From the Control Panel window, use the drop down to select the correct panel.
- 9. Now select the correct folder. Folders are called, Hardware Classes.
- 10. Select the **Readers** hardware class.
- 11. Click the **Next** button

The wizard for making logical devices that have a reader in them is a little different in functionality then other wizards. In the wizard for a logical device with a reader, all you do is choose the reader port that you want to use and the wizard will pick the rest of the points for you.

12. Select the PW-6000 2R 0 - Unused Reader 0 item

The system always chooses the corresponding points in a certain manner, so you know in advance what points will be chosen.

You can always highlight one of the selected points and use the Modify button to select a different unused point.

- 13. If you are satisfied, click the Finish button.
- 14. Click the **Finish** button
- 15. Add three more doors: Rear door, Warehouse Door, Employee Entrance.

That completes the process for creating a logical device for a door with a reader. There are still a couple of settings that need to be optioned that are not taken care of in the template. They are the options that require a time zone, and a card format.

- 16. To edit the last of the options, double click the logical device for the door.
- 17. When the logical device dialog opens, go to the Logical Device Details tab.
- 18. Double click the reader.
- 19. Go to the Reader Settings tab and notice all the settings here. Set the Strike Time to 3 seconds and the Held Time for 20 seconds.
- 20. Go to the Advanced Settings tab. The Override Time Zone is the setting that unlocks the door as per some schedule. Pick the Time Zone that controls that schedule. Example: Choose the 8am-5pm M-F time zone. End of LAB

Inputs

- 1. To add a Monitorable input point right click the panels to open a menu.
- 2. Click the New menu item
- 3. Select the Logical Device menu item
- 4. When the **Pro-Watch Logical Device Manager** dialog opens, give the logical device a meaningful name.
- 5. Then select the Template that you are going to use.
- 6. Select the **Monitorable Input** item from the list.
- 7. Now select the panel that will control the input.
- 8. The last thing to do on this screen is to pick the folder that you want the input to reside in. The folders are called Hardware classes.
- 9. Select the Monitorable Inputs item
- 10. Click the **Next** button
- 11. Either select the Input point and click Modify or double click the input point.
- 12. Use the drop down list to pick the unused input point on one of the panels IO boards. Be careful that you pick the correct point because it is easy to get confused as to which point is which.
- 13. Click the **OK** button
- 14. Click the **Finish** button

You can now see that a new Hardware Class has been added and it contains our new Monitorable input point.

To view or edit the options for an input point, locate the logical device, double click it, or, right click it and select properties. Choose the Logical Device details tab. Now double click the input point that you wish to edit. These are the options for an input point. No matter how the input is used, these are the only options.

Output

- 1. Right Click the Panel
- 2. Click the **New** menu item
- 3. Select the **Logical Device** menu item
- 4. When the **Pro-Watch Logical Device Manager** dialog opens, give the logical device a meaningful name. ***(Remember that Pro-Watch does not

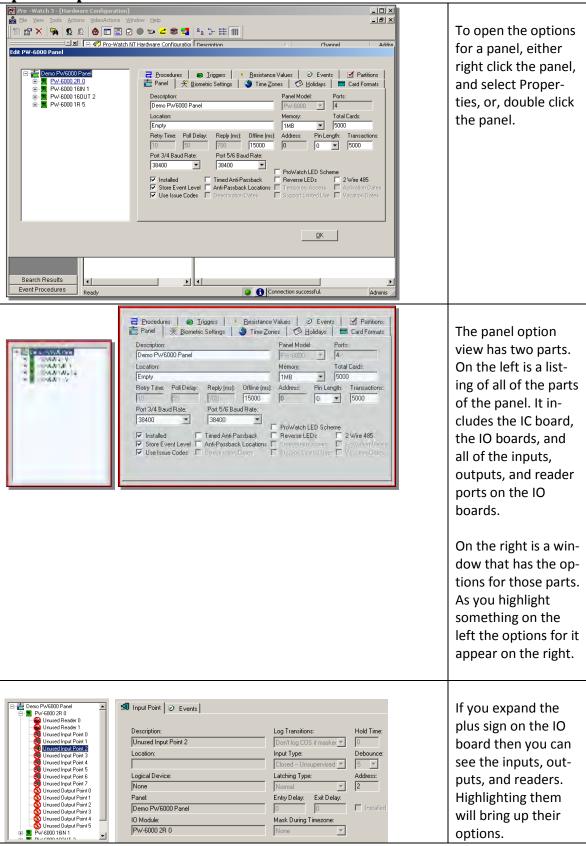
require unique names so if you are not careful you could end up with multiple devices with the same name.)

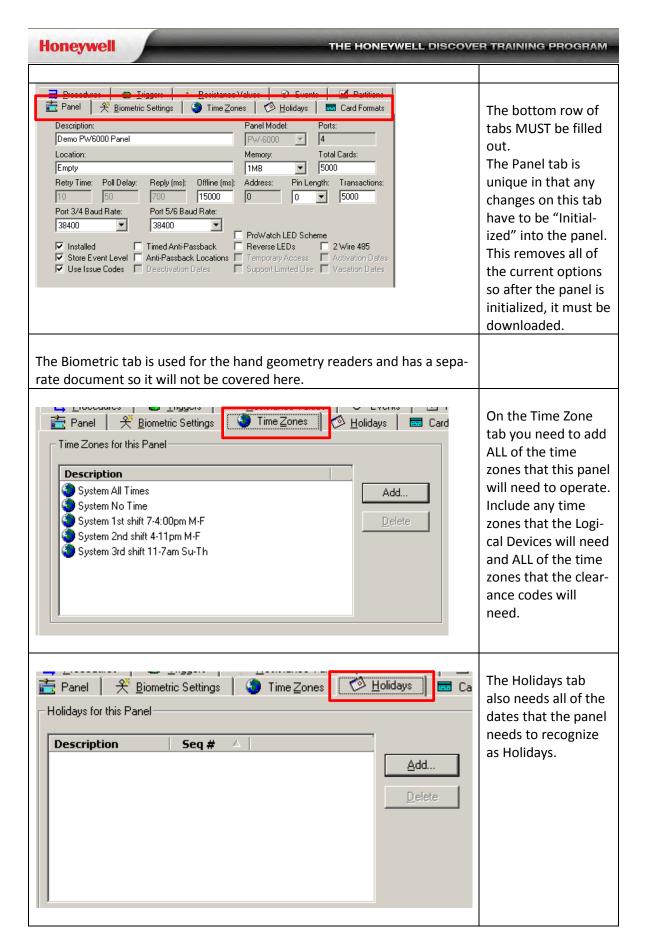
- 5. Use the Hardware Template drop down to choose the appropriate template. Select the Controllable Output item.***(No logical device can be made without using a template.)
- 6. Lastly select the Hardware Class, or folder, that this logical device will reside in. Select the Controllable Output item.
- 7. Click the **Next** button
- 8. Now you need to map an unused output to this device type. Double click the horn to choose an available point.
- 9. Select the PW-6000 2R 0 Unused Output Point 5 item
- 10. Click the Finish button
- 11. Select the Controllable Outputs Hardware Class. You can see now that your output has been created.
- 12. Double click the logical device.
- 13. Go to the Logical Device Details tab and you will find the output.
- 14. Double click the output.
- 15. Set the Pulse Time to 4 seconds.
- 16. Click OK.

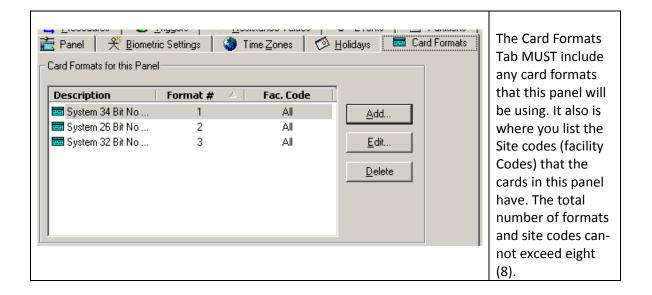
End of Lab



8 - PW panel Options







Lab 6 - Panel Options

Time Zones

- 1. Select the Demo PW6000 Panel item
- 2. Right Click the **Demo PW6000 Panel** item
- 3. Select the Properties... menu item
- 4. The Edit PW-6000 Panel dialog opens
- 5. Select the **Time Zones** tab
- 6. Click the Add... button
- 7. Select the 8am 5pm M-F time zone.
- 8. Click the **OK** button
- 9. Click the **Add...** button
- 10. You can add more then one time zone at a time to the panel Time Zone list.
- 11. Hold down the Ctrl button and select the last two time zones.
- 12. Click the OK button

Holidays

- 13. Select the **Holidays** tab
- 14. Click the Add... button
- 15. Holiday Drop Down box.
- 16. Select the **Define...** menu item
- 17. The **Holiday List** dialog opens
- 18. Select the July 4th item
- 19. Click the **OK** button
- 20. Click the OK button
- 21. Click the Add... button
- 22. Holiday Drop Down box.
- 23. Select the **Define...** menu item

- 24. The **Holiday List** dialog opens
- 25. Select the New Years Eve and Day item
- 26. Click the OK button
- 27. Click the OK button

Card Formats

- 28. Select the Card Formats tab
- 29. Click the Add... button
- 30. Click the Card Format Drop Down box.
- 31. Select the **Define...** menu item
- 32. The **Card Formats** dialog opens
- 33. Select the 32 bit with Facility item
- 34. Click the **OK** button
- 35. Select the **Facility Code** text box
- 36. Enter a sample Facility Code.
- 37. Click the OK button

You cannot have a card format with No Facility code and the same card format with a facility code in the unless the formats are used on different readers.

- 38. Select the System 32 Bit No Facility item
- 39. Click the **Delete** button
- 40. Click the Add... button
- 41. Click the Card Format Drop Down box.
- 42. Select the **Define...** menu item
- 43. The **Card Formats** dialog opens
- 44. Select the 32 bit with Facility item
- 45. Click the **OK** button
- 46. Select the **Facility Code** text box
- 47. Enter a sample Facility Code
- 48. Click the **OK** button
- 49. Click the OK button

End of Options LAB



9 - Status and Downloading



When you right click on a panel, the menu will display "Download", and "Status". Open the Status window first and move it out of the way. Next, right click and select Download.



In the download window you will see that "Download System' is selected. This will download everything to the panel except cards. Selecting Download Cards will download the cards. You can select either one singly or both together. De-selecting Download System will allow you to download only the things you nee



If this IC board is new or you just replaced one, it is a good idea to select "initialize" by itself and click OK. This will wipe out any old settings that are in the panel's record. You can then download system.



The Status window lets you use the status of different devices on a panel, as well as control them. The clock at the bottom is displaying the time that the IC board thinks it is.

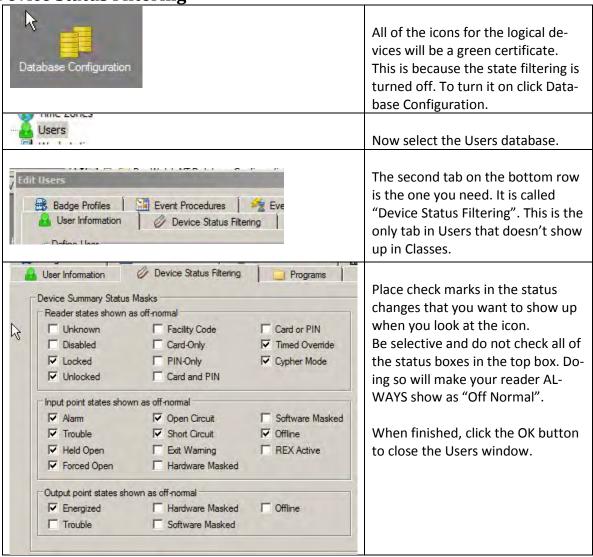
Lab - 7 Status and Downloading

- 1. Right Click the Panel icon.
- 2. Select Status from the menu.
- 3. Pull the Status window to the lower portion of the screen.
- 4. Leaving the Status window open, right click the Panel icon again and select Download from the menu.
- 5. Deselect Download System
- 6. Select Initialize and click OK
- 7. When the panel comes back on line(about 2 min.), repeat steps 4 and 5, but this time just select OK.

End of Lab

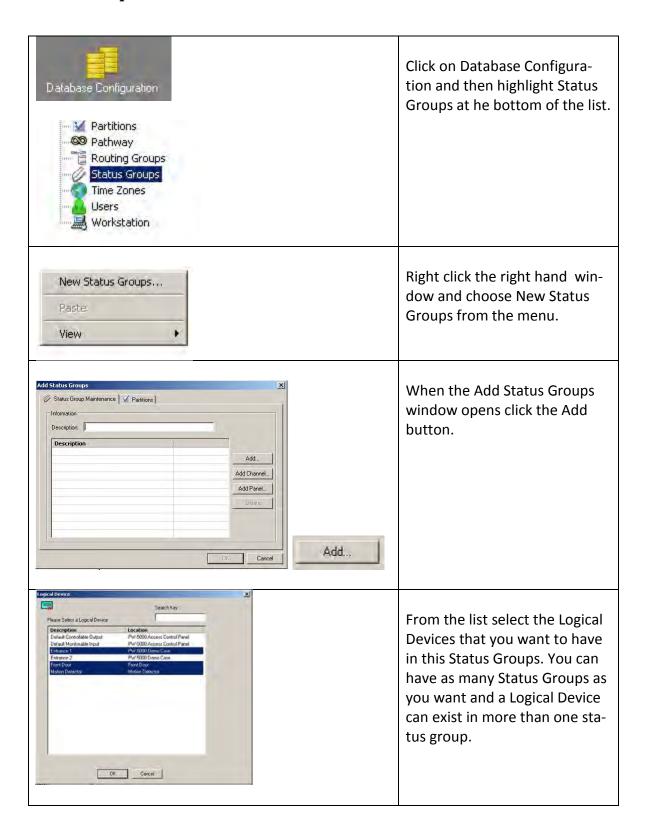


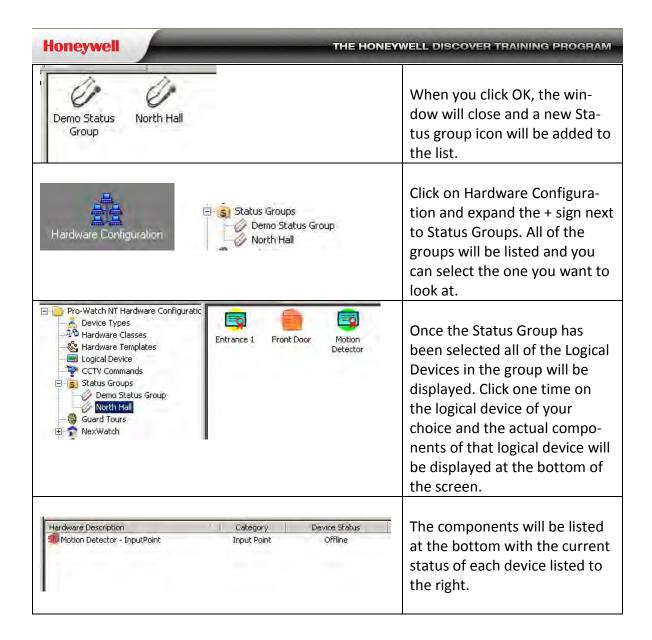
10 - Device Status Filtering





11 - Status Groups





Lab 8 - Status Groups

- 1. To make a status group, select Database Configuration from the viewer bar on the left.
- 2. Select the Status Groups item
- 3. Right click the window on the right to open a menu.
- 4. Select the New Status Groups... menu item
- 5. When the **Add Status Groups** dialog opens, give the Status Group a meaningful name.
- 6. To add logical devices to the group click the Add button.

There are two ways to select the logical devices that you want in the group. You can highlight one of the logical devices and click the ok button, or, since all of the systems logical devices are listed in this window, hold down the Ctrl key and highlight all of the logical devices you want by clicking them with the mouse.

- 7. Highlight one, and click the ok button.
- 8. Now try the other way.
- 9. Click the Add... button
- 10. Now hold down the Ctrl key and select the Logical devices that you want in the group.
- 11. Click the **OK** button
- 12. When you have finished adding logical devices, click the OK button to save the Status Group.

Now that you have created the group, close all the open windows, and then reopen the Hardware Configuration tree by clicking the icon in the viewer bar. We do this because the new group will not show up in the tree until you refresh the view by closing it and reopening it.

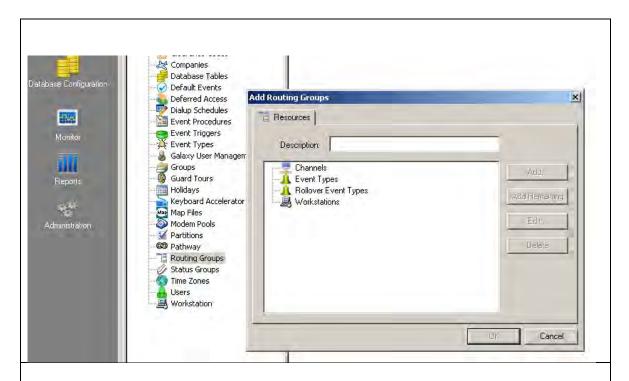
- 13. Click the Close button
- 14. Click the Close button
- 15. Now reopen the hardware tree by clicking the Hardware Configuration icon.
- 16. When you click the Status Groups item, your new Status Group will be visible.
- 17. Select the new group item.

You select the logical device in the top half of the window and the condition of the device types in it are displayed in the lower window.

18. Select the Logical Device with a reader in it. item



12 - Routing Groups



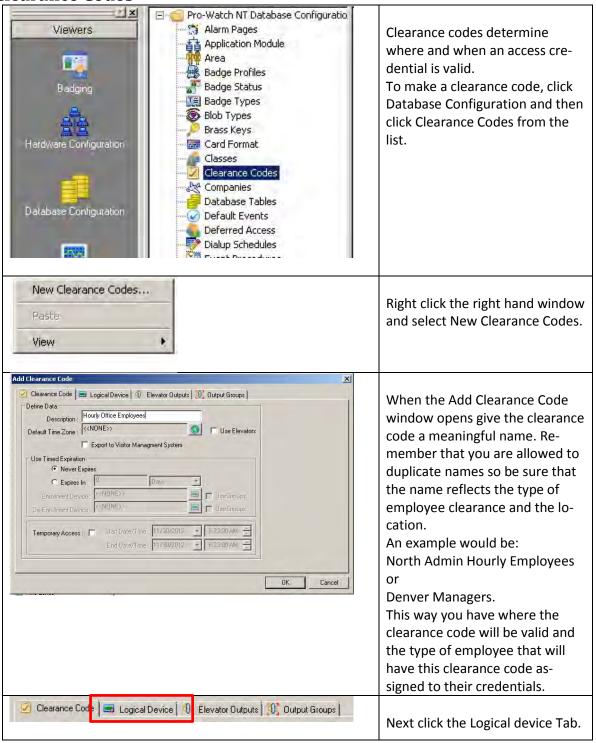
Routing groups are used to push the correct events to the workstations of your choice. This is used to allow certain users to see only the events that you want them to see.

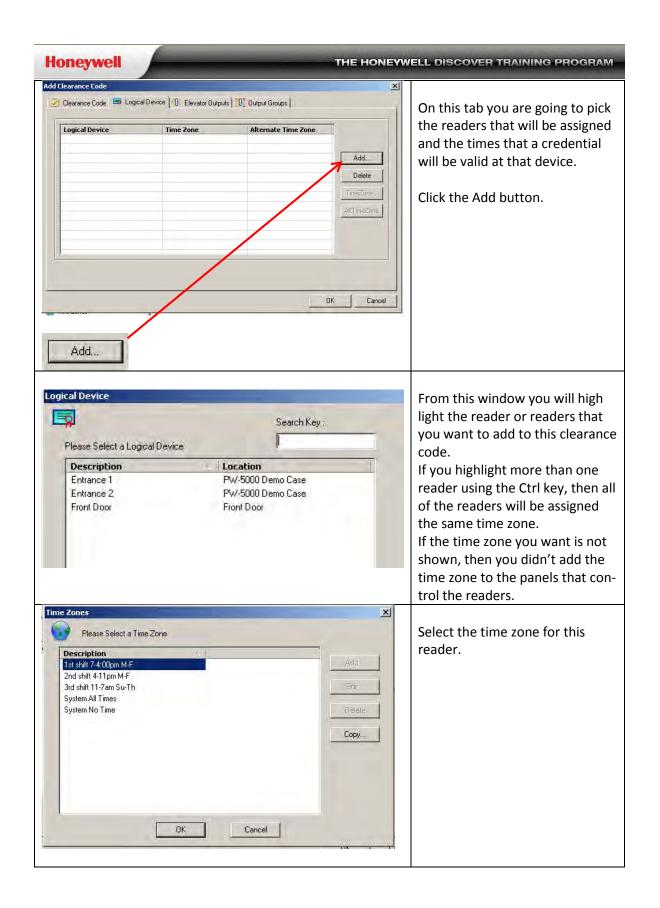
Under Database Configuration you will find the menu item called Routing Groups. A Routing Group determines "which Channels, send which events, to which workstation". Once a Routing

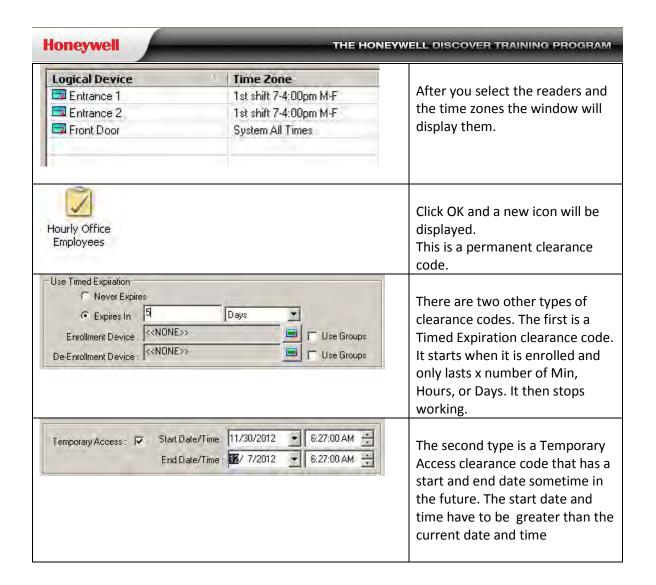
Group determines "which Channels, send which events, to which workstation". Once a Routing group is built it can then be assigned to either a Class or a User. This will replace the default Routing Group. From then on the users that have the new routing group will only see the events from the selected channel.



13 - Clearance Codes





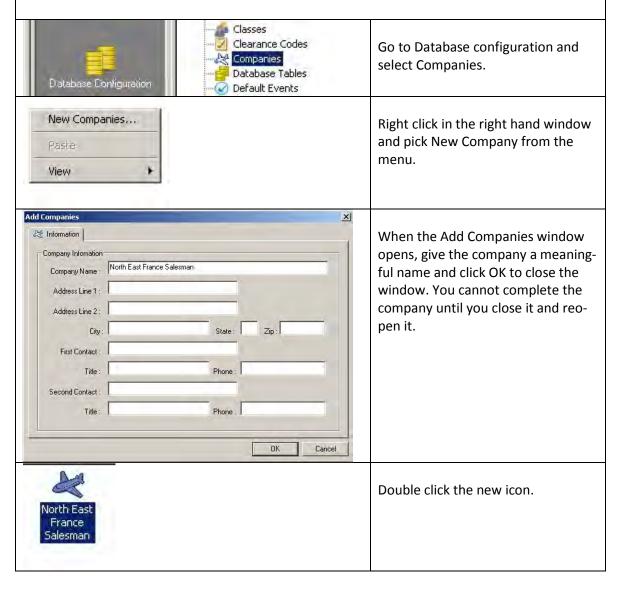


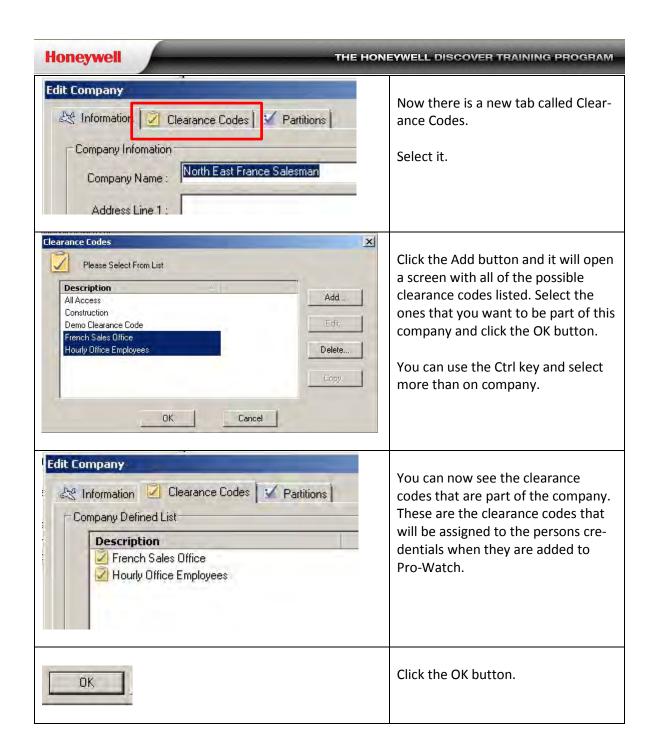


14 - Companies

Companies are simply Clearance code groups. In Pro-Watch you must use the company function since it is a required field. It makes sense then to build your companies correctly and save your-self some time while using the system. Some people will make empty Companies and assign them. Then go further into badging and manually add the clearance codes they want. This just wastes time.

Think of it like this: You are sitting at a badging station for a large multi-national corporation and a person comes to you for a badge. You ask them what their job title is, and they reply North East France Salesman. Would you know what doors to give them access to? But if someone had built a company (clearance code group) called North East France Salesman that already contained all of the Clearance codes, then all you would have to do is assign the Company and Pro-Watch would automatically associate the correct clearance codes with their badge.





Lab - 9 Clearance codes and Companies

Clearance Codes

- Clearance Codes in Pro-Watch are used to determine where and when an access card is valid. A single Pro-Watch Corporate edition system can become very large and cover anywhere that a network or phone line can connect to. There can literally be many sites, with hundreds of doors with readers. Combine that with the many ways that employees are allowed to move through the facilities, and you have a very large task in creating and maintaining clearance codes.
- 2. To make a clearance Code, click the Database Configuration icon in the viewer bar on the left.
- 3. When the **Database Configuration** window opens, click the Clearance Code item in the list.
- There is a default All Access Clearance code provided in the system. This clearance code cannot be edited, and contains all the readers, with 24 hour, 365 day access.
- 5. To add a new Clearance Code, right click the right hand window.
- 6. Right Click the **New Clearance Code...** menu item
- 7. It is very important that the naming of the clearance codes be given some thought. Remember, there could be hundreds of different ways that employees and visitors are allowed to use the facilities, and the name you give the clearance code needs to describe the usage.
- 8. Name the Clearance Code, Managers.
- 9. After naming the clearance code, select the **Logical Device** tab.
- 10. To start adding readers, Click the **Add...** button
- 11. Select the Lobby Door reader.
- 12. Click the **OK** button
- 13. Note:...This list is not a list of all of the time zones in the system. It is a list of the time zones that were added to the panel that this reader attaches to. If the time zone you are looking for is not in this list, then you have not put it in the panels Time Zone tab list.

- 14. Select the System All Times item
- 15. Click the **OK** button
- 16. Add all four doors with the Systems All Times, time zone.
- 17. When you have finished adding the readers and the time zones, click the OK button to save this clearance code.
- 18. Right Click the right hand window.
- 19. Select the New Clearance Code... menu item
- 20. Name the Clearance Code, Employees Hourly.
- 21. Select the Logical Device tab
- 22. Click the Add... button
- 23. Select the Lobby Door item
- 24. Click the **OK** button
- 25. Select the 8am-5pm M-F time zone.
- 26. Click the **OK** button
- 27. Click the **Add...** button
- 28. Add the other three doors with the same Time zone: 8am-5pm M-F
- 29. Click the **OK** button
- 30. The first clearance code that we made used the system all times time zone for the readers. This one uses the 8am-5pm Monday through Friday time zone for both readers. The time

zones do not have to be the same for all readers. Each reader can have a different time zone associated with it.

- 31. Make an Hourly Supervisor Clearance code. With 8am-5pm M-F and Holidays on all doors except the lobby door. Make it System All Times.
- 32. Make a Salesman Clearance code with 8am-5pm on the Rear Door only. There will be no other doors in this Clearance Code.

33.

Companies

- 34. Click the Database Configuration icon in the viewer bar on the left.
- 35. Select Companies, from the list of databases.
- 36. Right Click the right hand window to open a menu.
- 37. Click the **New Company...** menu item
- 38. Give the Company a meaningful name. Use the name Managers.
- 39. You have to close and reopen the company in order to add clearance codes to it.
- 40. Click the **OK** button
- 41. Double-click the **Managers** company.
- 42. Select the Clearance Codes tab



- 43. Click the **Add...** button
- 44. You can Double-click the Managers item, or highlight it and click the OK button.
- 45. We are only adding one clearance code to this company.
- 46. Click the OK button.

- 47. Click the OK button
- 48. Repeat the process for the Hourly Employees company.
- 49. Right Click the window
- 50. Select the New Company... menu item

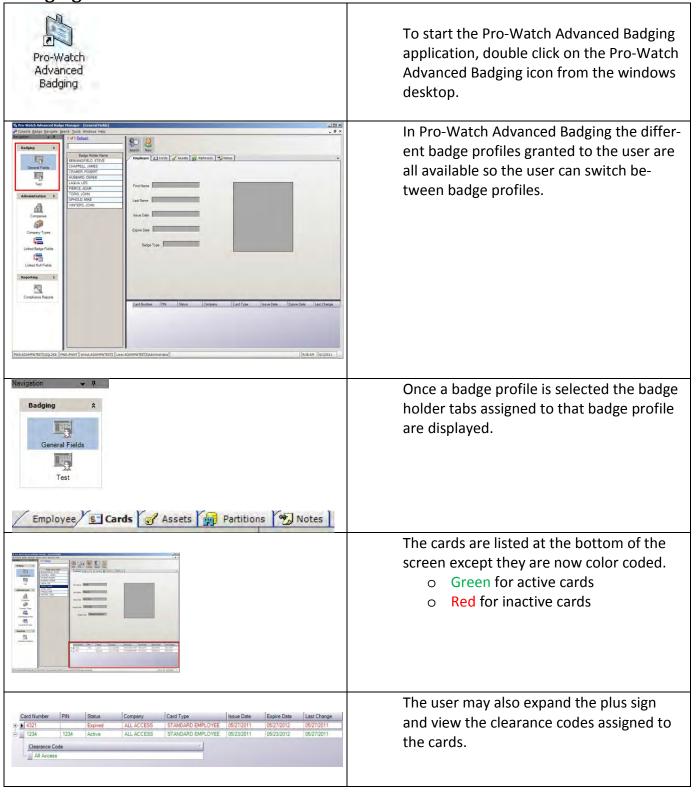


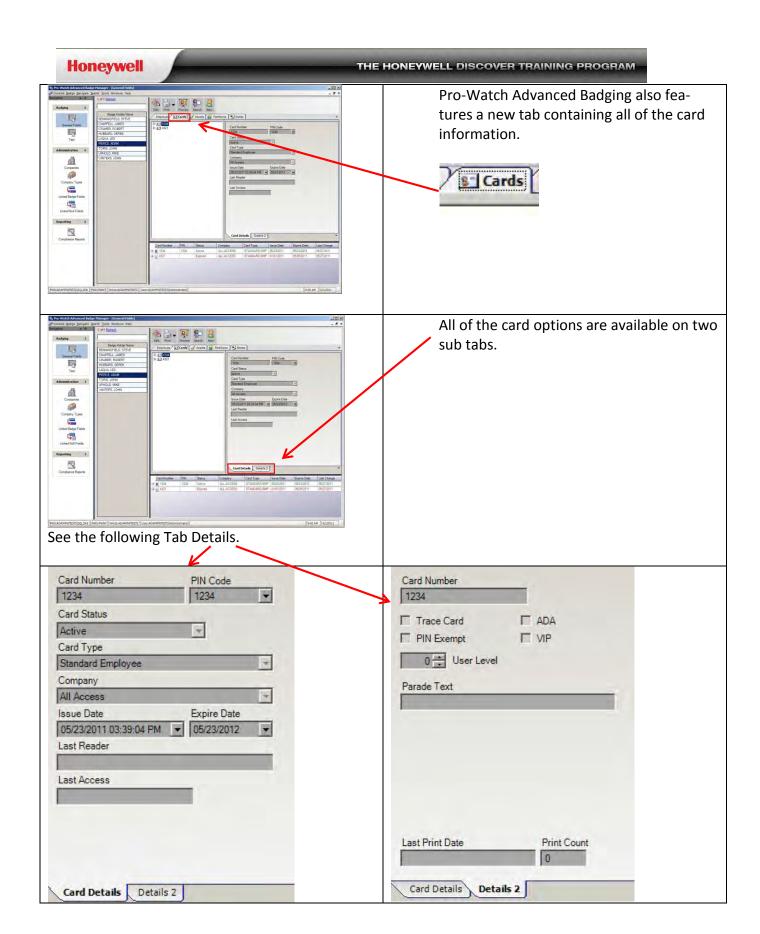
- 51. Name the company Hourly Employees.
- 52. Click the OK button
- 53. Now reopen the company by Double-clicking the Hourly Employees item KHourly Employees
- Clearance Codes 54. Select the Clearance Codes tab
- Add. 55. Click the Add... button
- 56. Double-click the Employees Hourly item
- 57. Click the OK button
- 58. Make another one for the Hourly Supervisors. Duplicate the previous steps and use only the Hourly Supervisors clearance code.
 - Make a fourth Company.
- 59. Right Click the window.
- New Company... 60. Select the **New Company...** menu item
- 61. Call the company Sales Force.

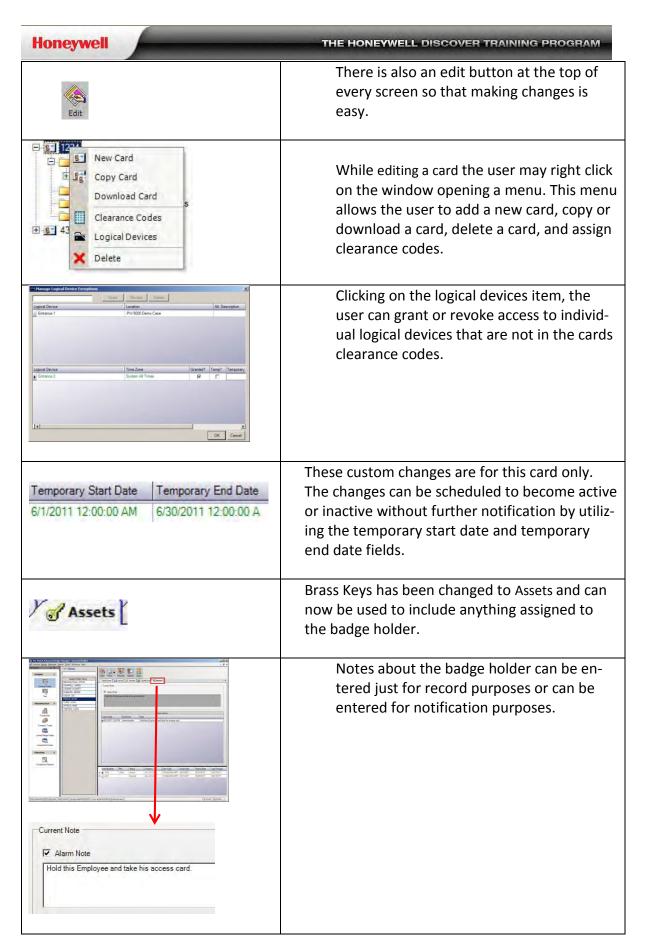
- 62. Click the **OK** button
- 63. Double-click the **Sales Force** Company
- 64. Select the Clearance Codes tab
- 65. Click the Add... button
- 66. Double click the Employees Hourly clearance code.
- 67. Click the **OK** button
- 68. Click the **Add...** button
- 69. Now add a second clearance code. Select the **Salesmen** clearance code.
- 70. Click the **OK** button
- 71. Click the **OK** button
- 72. End of Lab

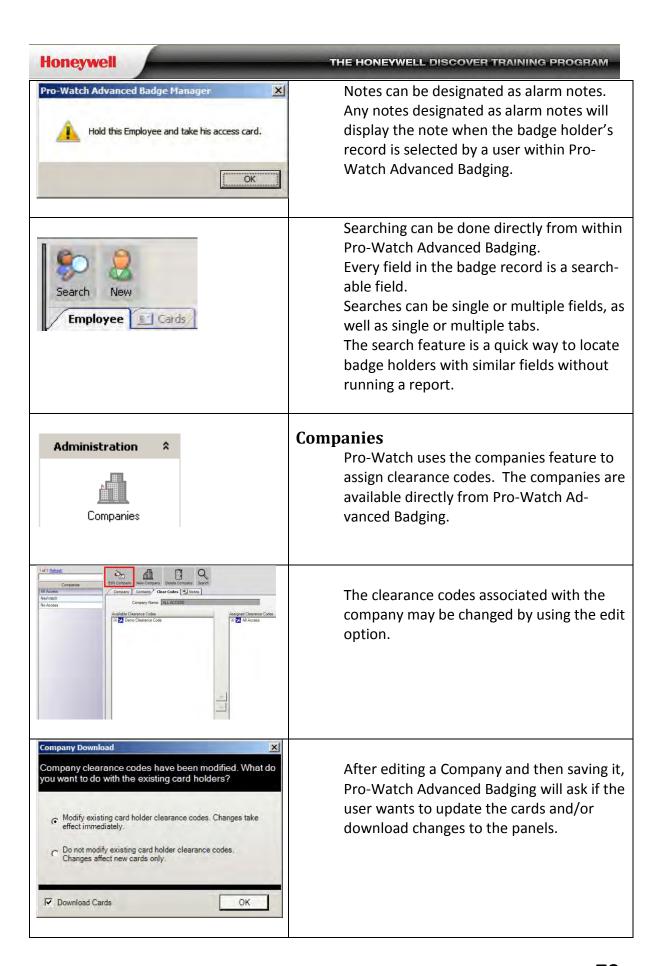


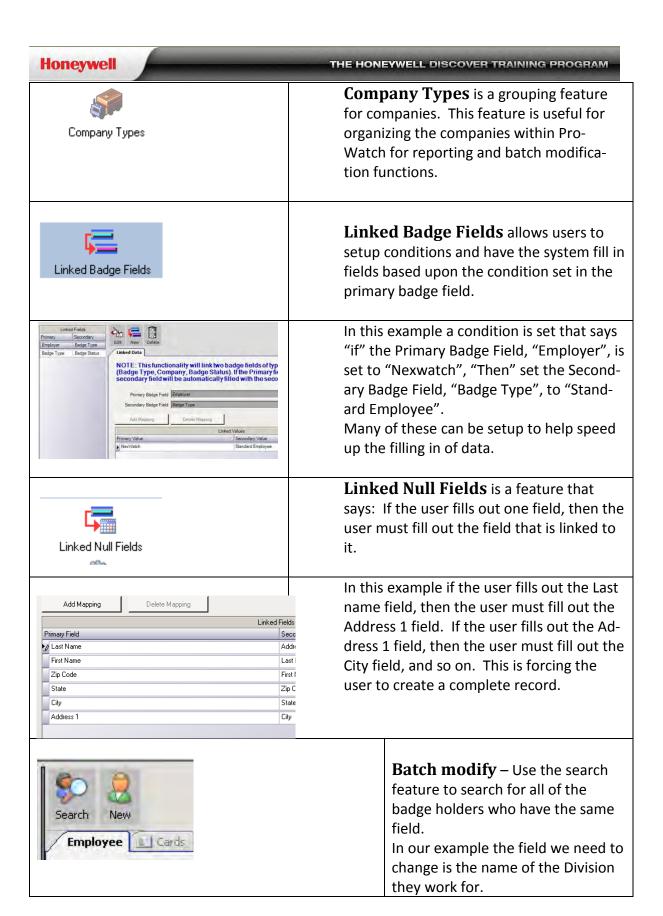
15 - Badging

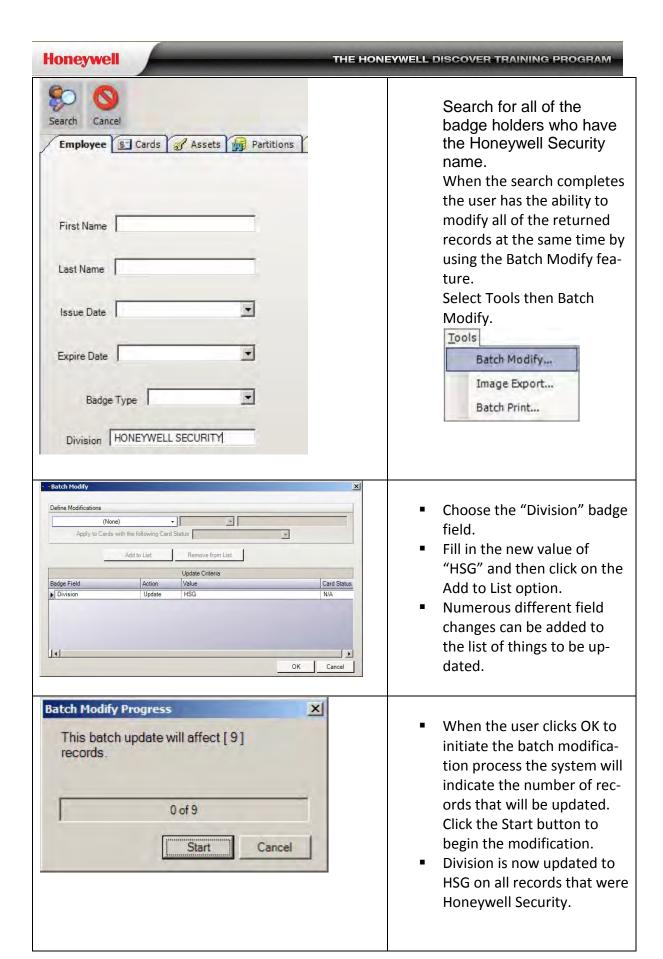




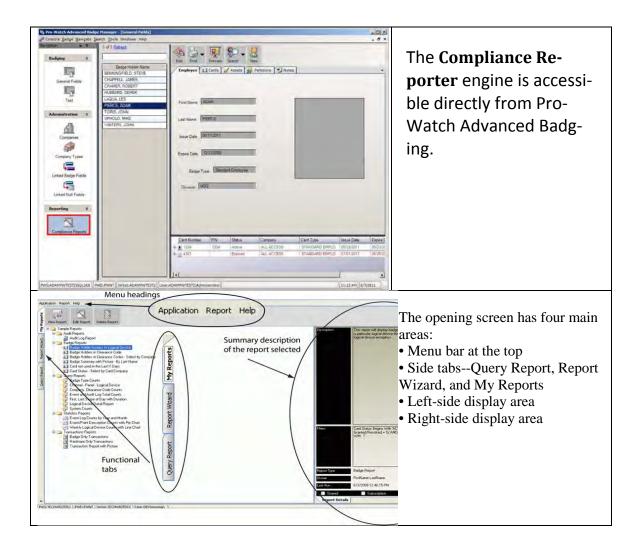


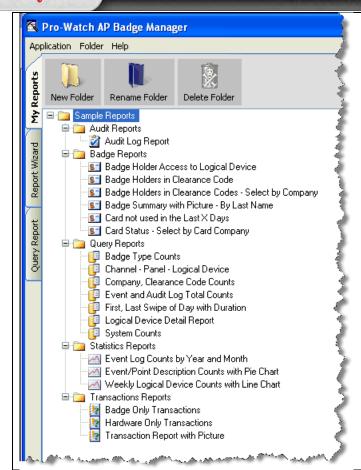






16 - Compliance Reports - See Compliance Reporting Guide for more info

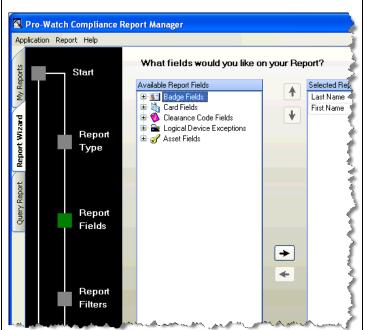




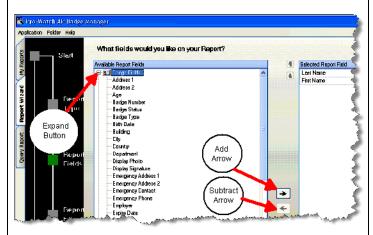
The check box for Sample Reports that is available during the Install will add these reports to the My Reports tab.



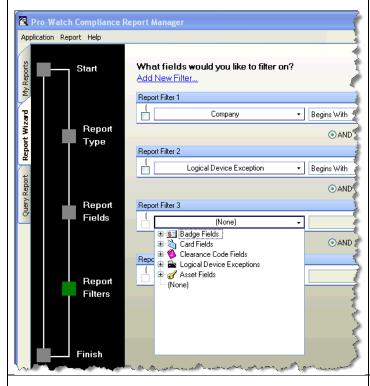
To use the Report Wizard:
1. Click the **Report Wizard** tab to view the opening **Report Wizard** screen.



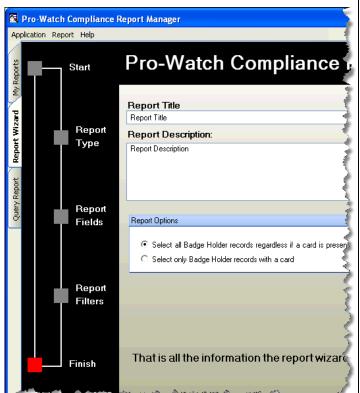
2. Select the type of report you want to create and click Next to view the screen that lists the fields available for the report type you selected.



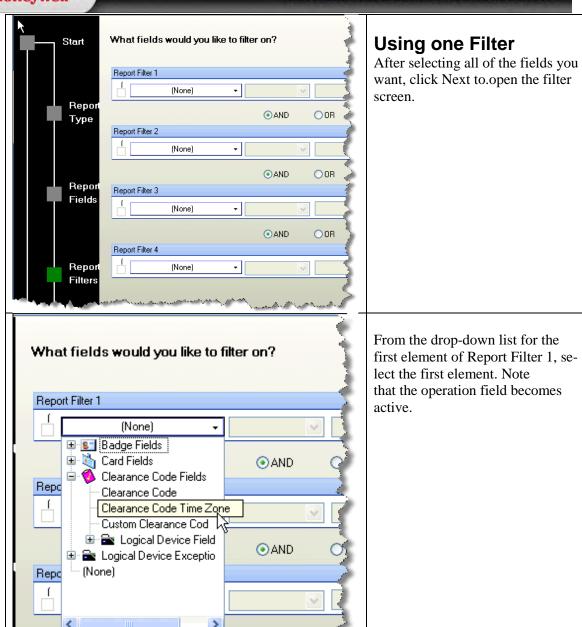
- 3. Click the expand button next to the type of fields you want to display. The following figure shows an abbreviated view of the Badge Fields expanded.
- 4. To select a field to display on your report, you can either:
- click to highlight the field name, then click the "add" arrow to add the field to the list in the right-hand box (highlight and click the "subract" arrow to move the field back to the Available Report Fields column),
- OR
- double-click the field name to add it to the list in the right-hand box, OR
- click the field name once and drag it to the right-hand box.



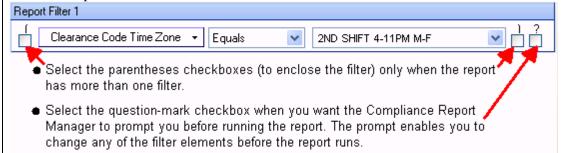
- 5. Repeat the selection process for any Event Log fields, Card fields, or Area fields you want to include in your report.
- 6. When you have selected all the fields you want in your report, click **Next** to display the filter fields screen.
- 7. Enter the fields you by which you want to filter. Note that the "Add New Filter" link at the top of the screen enables you to create additional filters.

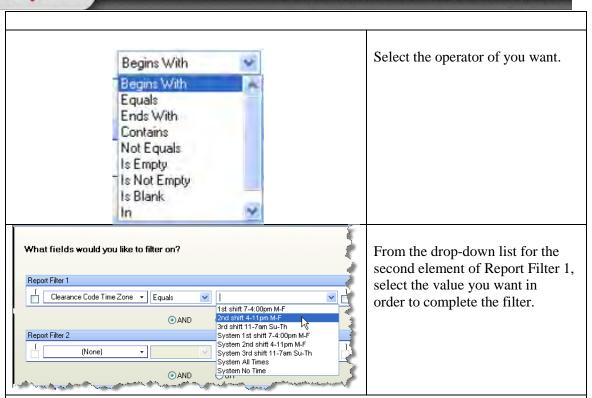


- 8. Click **Next** to display the **Report Title and Description** screen.
- 9. Enter the report title and description and select the appropriate Report Options and Report Data radio buttons described in the following table:
- 10.Click **Finish** to display your customized report.



Note the two kinds of checkboxes at the ends of the Report Filter line--parentheses and question mark. Since this procedure configures only one filter, leave the parentheses checkboxes blank. Select the question-mark checkbox if you want to be able to change any of the filter elements before the report runs.





Note: For each filter you select, the corresponding types of the filter appear after the filter operation. For example, when you select **Clearance Code Time Zone** as a filter and specify an operation, the third field is automatically filled with a list of time zones. When you select **Clearance Code** and specify a filter operation, the third field is automatically filled with a list of available Clearance Codes, and so on.

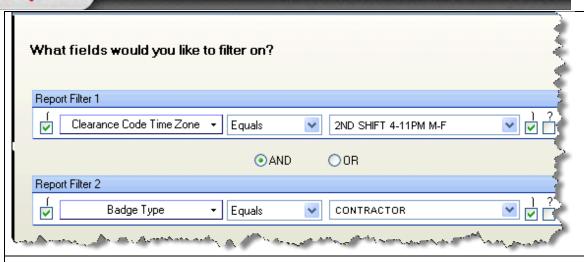
Click **Finish** to accept the filter. The Compliance Report Manager generates a list of all employees whose Clearance Codes are assigned the 2nd shift Time Zone. This is a subset of all employees in the database.

Using Two Filters

To generate a report with two filters, follow these steps:

- 1. Open the Report Wizard and follow the steps given in the preceding section, Since this procedure configures more than one filter, be sure to "enclose" the filter with parentheses by selecting the parentheses checkboxes at the ends of the Report Filter line.
- 2. Select **AND** between Report Filter 1 and Report Filter 2.
- 3. Follow the steps given in the preceding section to configure the second filter. Remember to select the parentheses checkboxes. The resulting **Report Filter** screen should look like this:

See next page.



Click Next to assign a title and description to the report. Click Finish to complete the report.

Runtime Filter

You can also designate a filter as a runtime filter—that is, a filter that must be applied whenever you run the report. Whenever you try to run a report that has a runtime filter on it, you will be prompted to input a filter value before you can run the report. To designate a runtime filter, select the checkbox under the question mark at the far right of the Report Filter box.

In/Not In Filter

In addition to the filtering already described, the Compliance Report Manager provides another operation, In/Not In, for grouping multiple instances of a field into one filter. The In/Not In operation applies to fields that have multiple Pro-Watch elements, such as Logical Devices, Companies, Time Zones, Channels, etc. The operation enables you to select, in the second filter element, more than one element to filter on.

For example, to see who has access to a particular door and/or a second door, select **Logical Device** for the first element, select **In** as the operation, and in the second element box click the Query Items box to display all the Logical Devices. Select the two doors as the fields you want to designate as the filter options. When you click **Next** or **Finish**, the report shows all personnel who can access either one or both of these logical devices.



To use the In operation for a filter:

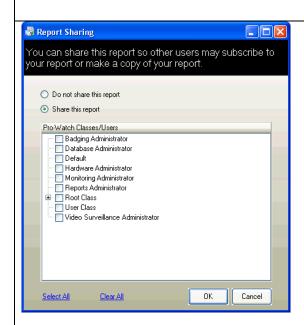
- 1. Click the drop-down list for the first element of Report Filter 1 and select a field with multiple selections as the first element.
- 2. Select In for the operation. The boxes for **Query items** and **Clear all items** appear in the second element field.
- 3. Click the **Query items** box to display the **Query [Field]** box.



- 4. In the **Query [Field]** box, select the devices in the **Available** box that you want to use and move (using arrows or double-clicking) them to the **Selected** box.
- 5. Click **OK** to return to the **Report Filters** screen.
- 6. Click **Next** or **Finish** to display the report on the Report Viewer screen.

Use the Not In filter to exclude instances of a field from a report. For example, to see who can access

all doors except the two selected doors, select **Not In** as the operation.



Sharing Reports

The Compliance Report Manager includes a function to share, or make available, your reports to users in the Pro-Watch environment. To designate a report to be shared:

- 1. Right-click the specific report you want to share—for example, Badge Holder Access to Logical Device, and select **Share Report**.to display the Report Sharing dialog box.
- 2. Click the button to share the report.
- 3. Select the personnel with whom you want to share the report. You can select a Pro-Watch class

of users, or select individual users.

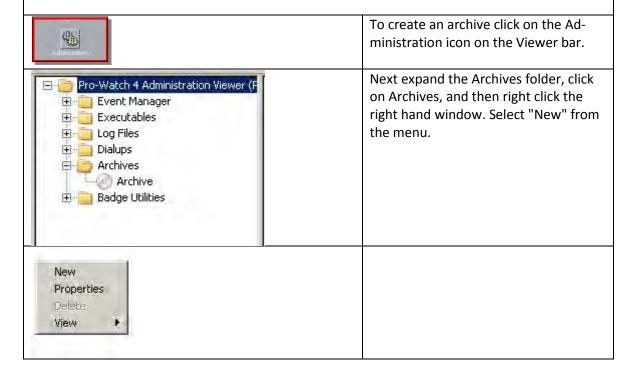
4. Click **OK**.

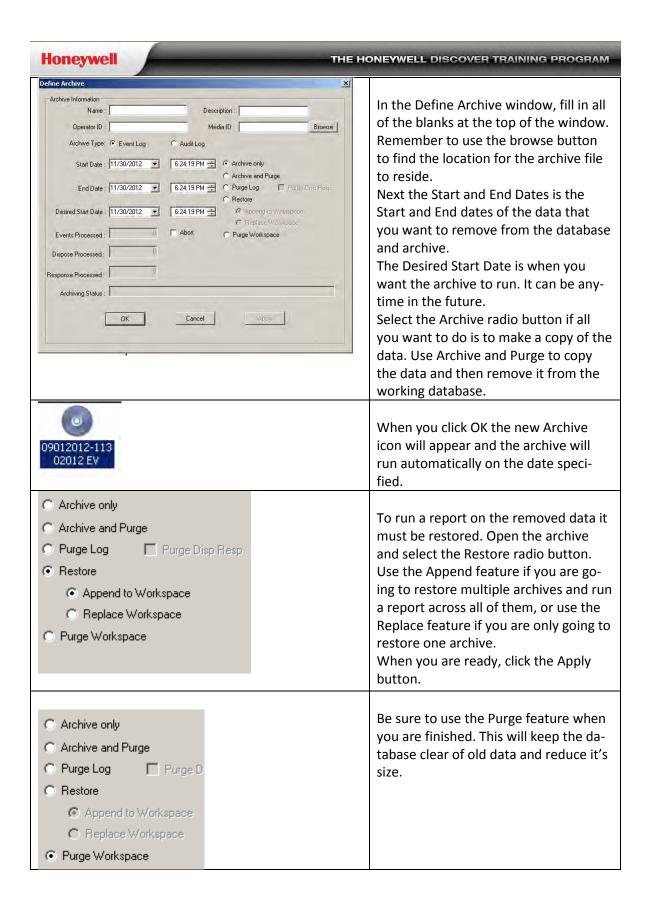
The report is now stored in a repository that may be accessed by you and by the users you have designated to share your reports with.

20 - Archiving

Archives are used to remove data from two tables that grow at a fast rate. These are the Event Log and the Audit Log. Since each log is a separate table the archives for these logs have to be made separately. Using the manual method shown here you will need to create a separate archive for each date that you want to do an archive on.

After running the archives it will be necessary to run a cleanup script that removes the empty lines from the table and reduces the size of the table.





Lab - 10 Manual Archive

Archives are used to remove data from two tables that grow at a fast rate. These are the Event Log and the Audit Log. Since each log is a separate table the archives for these logs have to be made separately. Using the manual method shown here you will need to create a separate archive for each date that you want to do an archive on. First verify that the table has data in it.

- A. Click the **Reports** icon in the Viewer bar.
- B. Click on the "Query Report" tab.
- C. Enter the following text: select * from ev_log
- D. Click the Finish button. The report should have your event data in it.

Now create your archives and run them

- To create an archive click on the Administration icon on the Viewer bar.
- 2. Select the Archive item plus sign.
- 3. Select the Archive item
- 4. Right click the window
- 5. Click the New menu item.
- 6. The **Define Archive** dialog opens
- 7. Enter a Name for the Archive
- 8. Enter a description for the Archive.
- 9. Enter your name in the Operator ID box
- 10. Click the Media ID **Browse** button
- 11. Search for a place to put the Archive. In this case put it on the desktop so you can find it later.
- 12. Select the **File name** text box and name the Archive file.
- 13. Click the **Open** button
- 14. Select the **Event Log** radio button

- 15. Enter the Start Date and Time. Make it a week before class started at midnight.
- 16. Enter the End Date and time. Make it four hours ago.
- 17. Select the Archive and Purge radio button.
- 18. Leave the Desired Start Date alone. It should be a few minutes ago.
- 19. Click the **Apply** button
- 20. Watch the Archive and Purge run, then Click the **Cancel** button
- 21. Repeat these steps for another archive but this time archive and purge the Audit Log
- 21. Click the **Reports** icon in the Viewer bar.
- 22. Click on the "Query Report" tab and enter the following text:

```
select * from ev_log
```

- 23. Click the Finish button. The report should be empty showing that your data has been purged.
- 24. Next enter the following text:

```
select * from worksp_ev_log
```

25. Click the Finish button. The report should have your restored data in it.

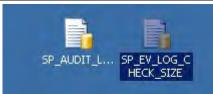
21- Auto-Archive

Pro-Watch Automated Archive and Purge, will manage your history and audit log maintenance. You select the number of days to keep "current" in the system, and let Pro-Watch archive and remove all older events.

To start the process you have to run the *three* SQL scripts. These are included with the Automatic Archive and Purge zip file. After the scripts are run, you will need to setup one archive for the Event Log, and one for the Audit Log. These only need to be setup once. Once they are setup, they will reference the settings you make, in the Pro-Watch Event manager to setup how much data to keep on your server.

In this tutorial we will run both scripts, and then setup the details for the Event Log. We will then repeat the setup of the details for the Audit log.

Unzip the file. Chose a location of your choice. Run both SQL scripts.



Double click one of the unzipped .sql files. This will open the SQL Query Analyzer connect dialog box.

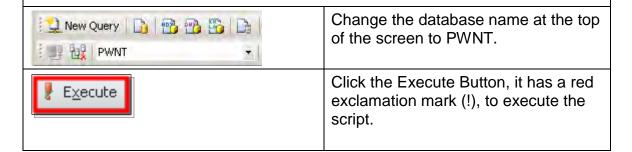


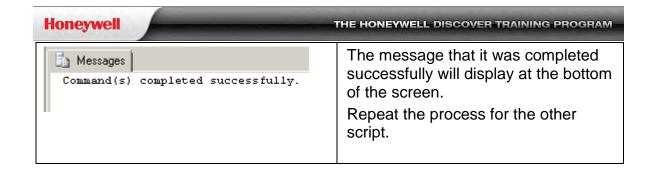
Connect to the SQL Query Analyzer. If the connect box doesn't open click the "New Query" button at the upper left corner of the window.

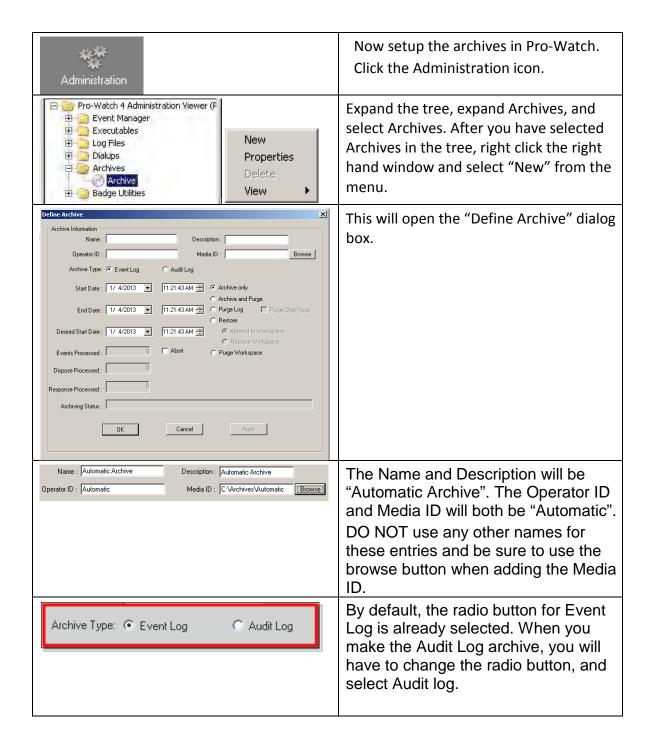


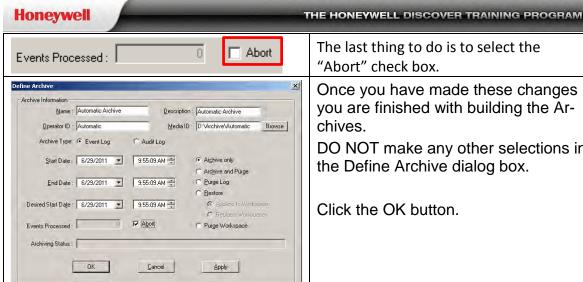
This will open the connect window. Connect to the SQL Query Analyzer.

Drag the file into the Query Analyzer screen. This will populate the screen with the script. You can also copy the file and paste it into the query analyzer.









The last thing to do is to select the "Abort" check box.

Once you have made these changes you are finished with building the Archives.

DO NOT make any other selections in the Define Archive dialog box.

Click the OK button.

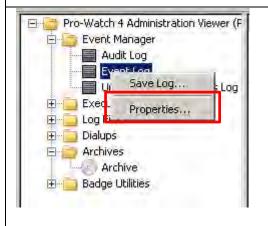
When the archives run SQL will automatically add the prefix of EVARC or ALARC and include the start and end date.

Example: "EVARC01_01_2009 to 01_31_2009.AR"

Now setup the amount of data to keep in the database.

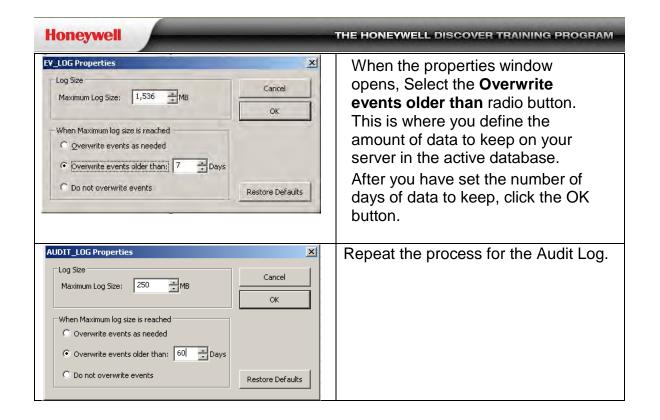
The next step is to open the Pro-Watch event manager, and set the limits for the amount of data to keep on the server. Once you do that, the automatic archive feature will start checking the database. The archiving works as follows: When you set an amount of history you want to keep active, say 2 months, Pro-Watch will automatically review the data. When the events are 30 days beyond the user defined number of days, (in this case 2 months), Pro-Watch will create an archive file and remove the oldest data, leaving the last 2 months in the active database.

Restore information is automatically generated in the software, and an icon will be added to the Archive database for the archive that was created.



Expand the Event Manager and right click the Event Log.

From the menu select the Properties... menu item.



Lab - 11 Auto-Archiving

Follow the previous steps to create an Event Log Automatic Archive, and an Audit Log Automatic Archive.

22 - Backup and Restore

Backups

Select the Pro-Watch Enterprise Manager menu item



Backup Database

Enterprise © Complete Database Backup

© Differential Database Backup

Next>>

File and Filegroup Backup

Backup To Disk

Backup To Tape

Database: PWNT •

Name: PWNT backup

QUIEN-PC\SQLEXPRESS

Backup Database

Restore Database

Expand the menu and select the Backup Database item.

By default the Complete Backup radio button will be selected. Enter a description for your backup.

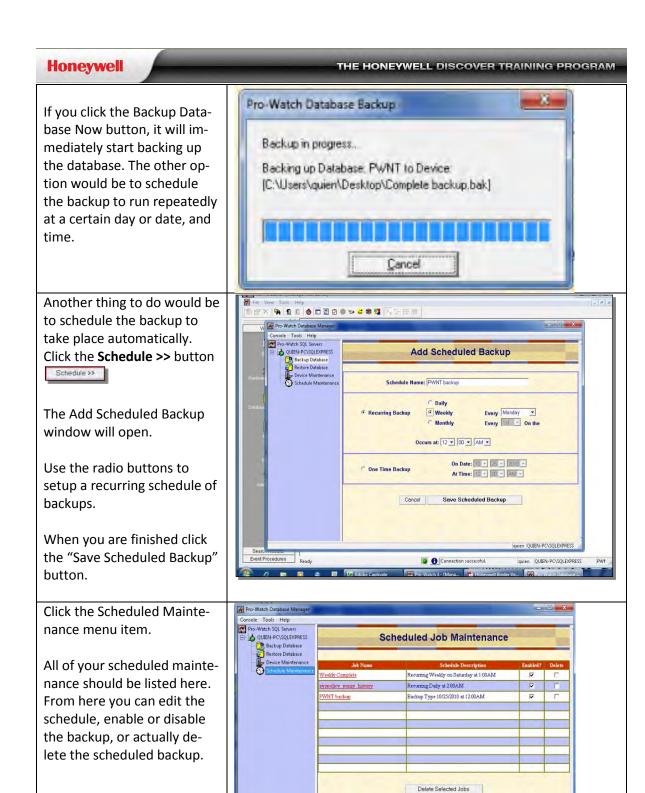
Decide if the backup will be a complete or a differential.

Click the Next button.

Next>>

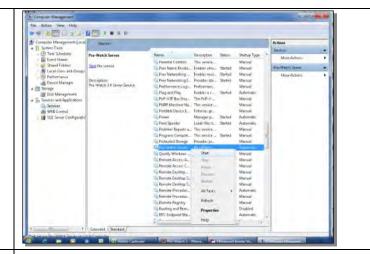
Use the ellipses browse button to locate the place you want to store the backup and then give the backup a name. Use the file extension of .bak. You also want to decide if this backup is going to be appended, or added to the previous backup, or whether it will replace the previous backup.





Restore

To restore a backup the first thing that must be done is to stop the Pro-Watch service.



Next, return to the Pro-Watch Enterprise manager and select the Restore Database menu item.

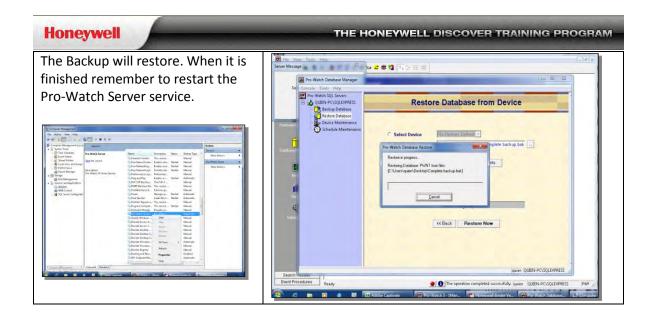
The "Restore as Database" radio

The "Restore as Database" radio button is set to Existing. This will replace the current database with the backup. Leave the "Restore From" radio button set to Device, and click the Next button.



Use the Browse button to find the backup you will restore.
Click the Restore Now button.





LAB - 12 Backup and Restore

Backup the Database

- 1. Click the Start button
- 2. Select the **Programs** menu item
- 3. Select the **Pro-Watch 4.0** item
- 4. Select the Pro-Watch Enterprise Manager menu item
- 5. Expand the Plus sign
- 6. Select the Backup Database item
- 7. Select the Description text box and enter "Weekly Complete".
- 8. Click the **Next >>** button
- 9. Select the File radio button
- 10. Use the ellipsis box and browse for a location to place the backup. In this case place it on the desktop.
- 11. Name the file Class Week Complete.bak
- 12. Select the Overwrite Existing Media radio button
- 13. Click the Backup Database Now button
- 14. Click the **OK** button
- 15. Repeat the process except don't use the Backup Database Now button use the Schedule button.
- 16. Click the **Schedule** >> button
- 17. Select the Weekly radio button
- 18. In the Every box select today.
- 19. In the occurs at: box select 5 minutes from now.
- 20. Click the Save Scheduled Backup button
- 21. Select the Scheduled Maintenance item
- 22. Your scheduled backup should be there.
- 23. Click the Close button

Restore the Database

- 24. Stop the Pro-Watch service.
- 25. Open the Pro-Watch Enterprise Manager
- 26. Select the File/Filegroup radio button
- 27. Place a check in the box that is in the Restore column, next to your first backup.
- 28. Click the Restore Now button.
- 29. Let the restore finish.
- 30. Click the **Close** button
- 31. Restart the Pro-Watch service.
- 32. Open Pro-Watch.
- 33. Check to see if there is any hardware built. It should be empty.
- 34. Repeat the process and restore your Class Week Complete backup and you should find all of your programming.
- 33. End of Lab.

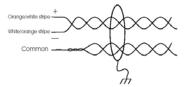
Appendix

PW6000 series panel Hardware

Ports 3–6 are RS-485 interfaces. These interfaces allow multi-drop communication up to 4,000 feet (1,250 m total per port). Use two twisted pairs (120 Ω , 23pF minimum 24 AWG) with shield for the communication. Install termination jumper only for end of line unit. The default speed of each these ports is 38.4Kbps but they can be downgraded to 19.2Kbps or 9.6Kbps if the line conditions or receiving equipment require it (see jumper and DIP switch settings). Up to 32 boards can be connected in any combination to ports 3, 4, 5 and 6.

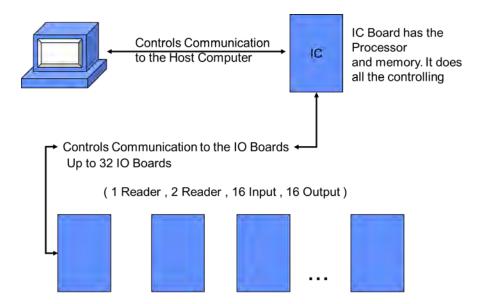
For Wiring to an RS-485 port:

- 1. TR+ is the plus side of the transmit and receive differential signal.
- 2. TR- is the negative side of the transmit and receive differential signal.
- GND is the signal ground. The wiring for this signal is required and NOT optional.
 This signal must NOT be tied to Chassis Gnd.
- Use 24 AWG low capacitance, two twisted-pair, shielded cable (Belden 9842 or equiv.).



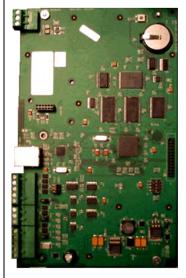
Note: For N-485 Communication Connections, twist the blue pair together and use as the common; use the orange pair as your data pair, observing polarity. Connect the external drain shield to the appropriate earth ground on one end.

When daisy-chaining RS-485 ports together connect the TR+ wires from the upstream and downstream boards to the TR+ terminal and likewise, connect the TR– wires from the upstream and downstream boards to the TR– terminal.



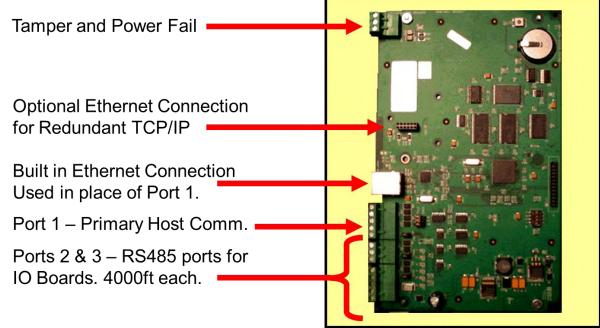
The IC board has 2 communication paths, each with their own addressing scheme. The Host path has addresses 0-7, and the IO board path has addresses 0-31.

Part Number: PW6K1IC



The PW6000 is a replacement board for the PW5000 IC. To program the PW6000 in Pro-Watch you will use the PW5000 selections. It programs the same. Some of the differences are:

- 1. Built in TCP/IP interface.
- Settings are made via a web interface instead of with EZWEBCON and DIP switches.
- 3. Downloads are twice as Fast.
- 4. Supports up to 300,000 cards



PW6000 Initial Setup Step1

System Configuration via Web Interface

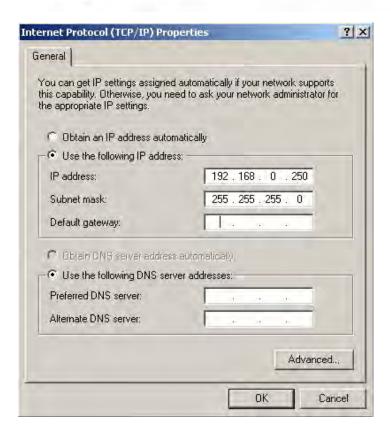
PW-6000 comes with Access Control Device Server Manager (ACDSM); i.e., a built-in web server through which the users can configure their network and other system settings.



Note: The default factory-set TCP/IP address for the built-in system configuration webserver is 192.168,0,251

A) Connecting to ACDSM for the First Time

- 1. Use the factory default controller IP address 192,168,0,251.
- 2. Set the DIP switches to S4=OFF, S3=OFF, S2=ON, S1=ON.
- 3 Connect the computer to host the web server via Ethernet Port 0. Connection should be via crossover Ethernet cable or by the regular Ethernet cables connected via the hub.
- Set the host computer to the static IP address 192,168.0,250 to be able to connect to the factory-default PW-6000 controller at address 192,168.0,251.
- Power up the PW-6000 controller.



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THE HONEYWELL DISCOVER TRAINING PROGRAM

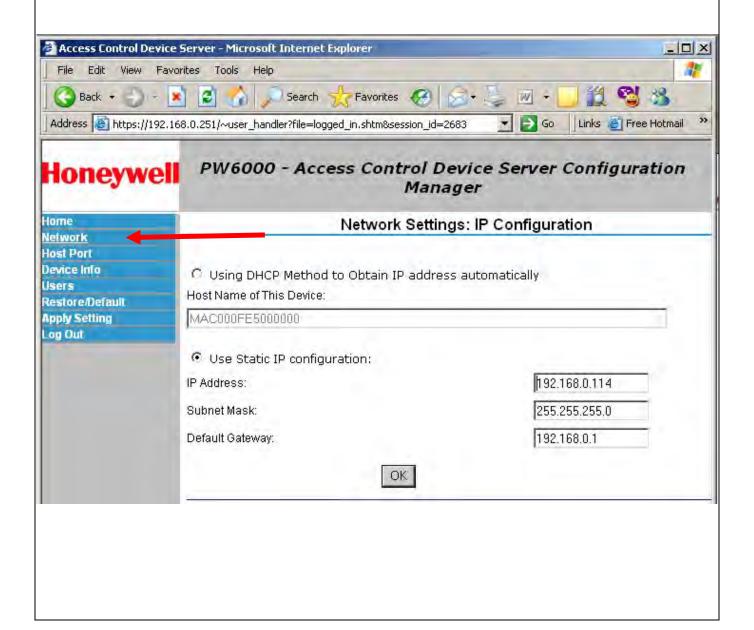
Open Internet Explorer and type in the address of 192.168.0.251 in the address bar. Click the Enter key.

IF you cannot connect to the IC board the default the IC board. See page 110.



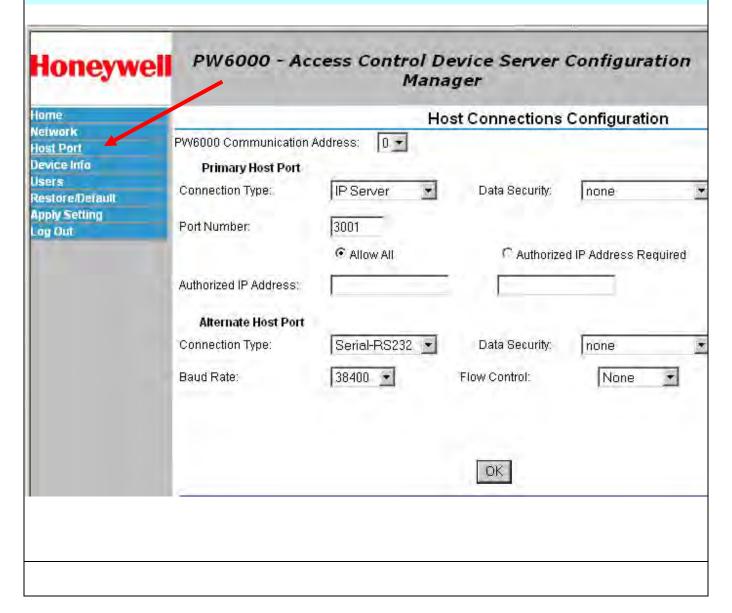


Navigate to the "Network" menu selection. Set the Static Network IP Address, Subnet Mask, and Router address from this page. When finished click the "OK" button.



Now go the "Host Port" menu selection.

It is possible to set the IC physical address using the "PW6000 Communications Address" drop down at the top of the page. The default is 0 and Pro-Watch assumes 0 so it is not necessary to change the physical address unless you are daisy chaining 2 or more IC boards off the same RS232 comport Set the communications type. Use the IP Server mode for TCP/IP on the Host port. The default Port Number is 3001. Click the "OK" button.





When you have finished programming the panel click the "Apply Settings" menu selection and exit the browser.

WAIT!!!! For the LED's to quit dancing and go back to the top LED blinking.

At this time set DIP switches 1 and 2 back off and press the reset button.

To default the PW6000 turn DIP switches 1&2 on then hit the reset button. During the first 10 seconds turn DIP switch 1 back off. Watch the LED's. The LED's will cycle for about 20 sec and then steady out so that only LED 1 is blinking. The panel will now be reset to factory defaults.

IO Boards



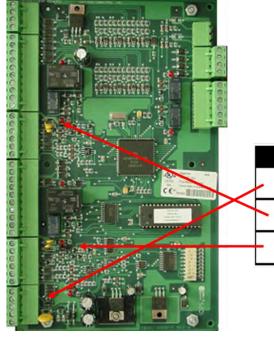




1 Reader Board The IO boards, sometimes called downstream modules, come in four types. A 1 Reader Board, a 2 Reader Board, a 16 Input Board, and a 16 Output Board. Each IC will support any combination of these up to a total of 32.

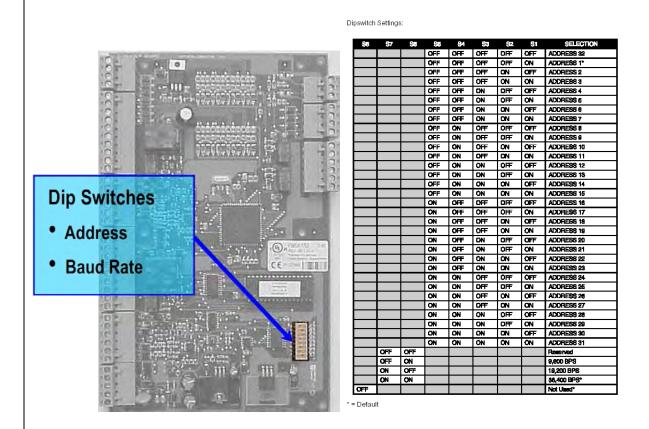
Note: The Manufacturers manuals use the numbering scheme of 1-32 where as Pro-Watch uses a numbering scheme of 0-31. The location address of each input, output, and reader will be off by one in Pro-Watch. For example, Input 1 as stenciled on the board will be input 0 when it is addressed in Pro-Watch.

Jumpers and DIP switches

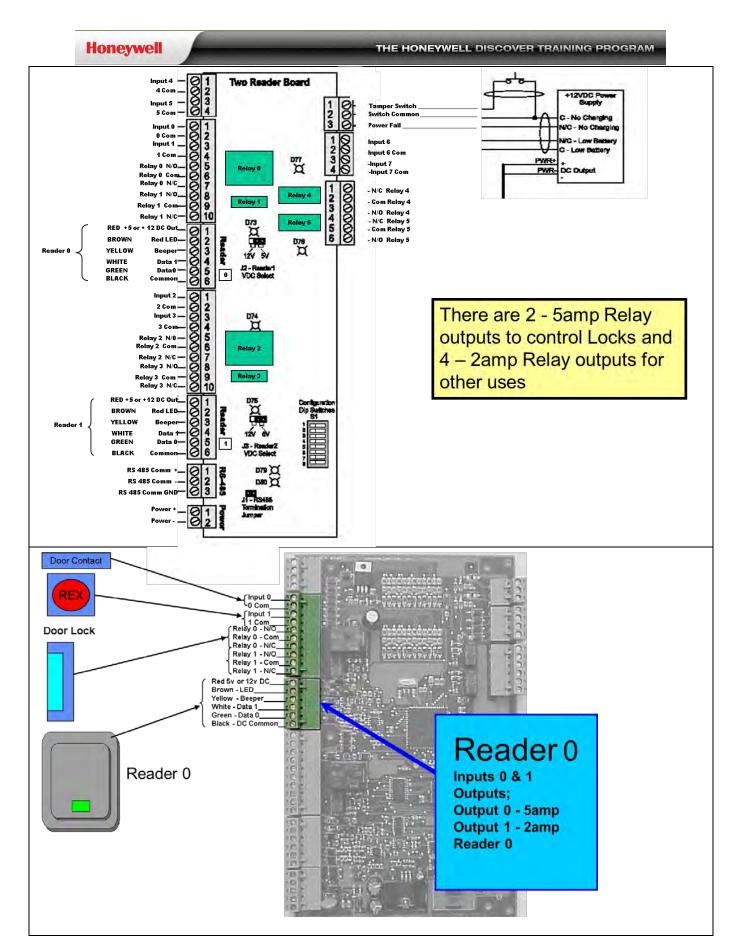


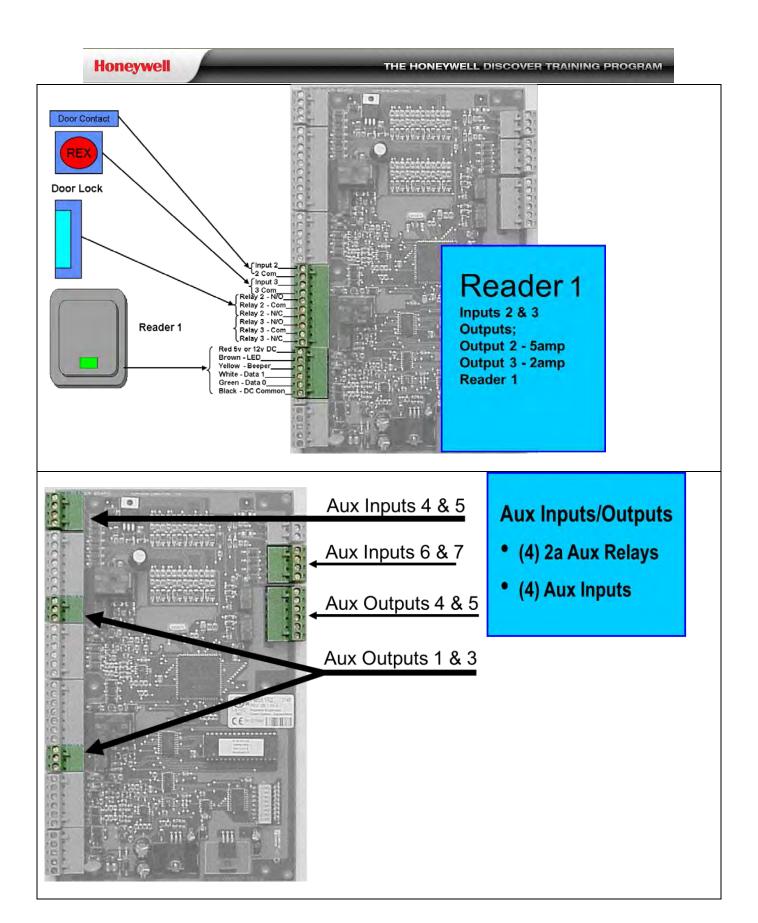
Jumpers

J 1	OFF	*	Port 1 RS-485 EOL terminator is not active	
	ON		Port 1 RS-485 EOL terminator is active	
J2	5	*	Reader 1 Rower-Terminal provides 5 VDC	
	12		Reader 1 Power Terminal provides 12 VDC	
J 3	5	,	Reader 2 Power Terminal provides 5 VDC	
	12		Reader 2 Power Terminal provides 12 VDC	



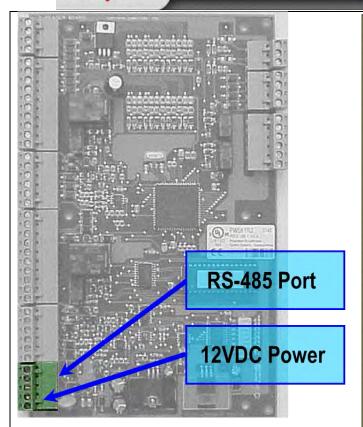
The DIP switches are used to set the address of the card and the BAUD rate of the RS485 port. All of the IO boards use the same DIP switch setting.





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THE HONEYWELL DISCOVER TRAINING PROGRAM



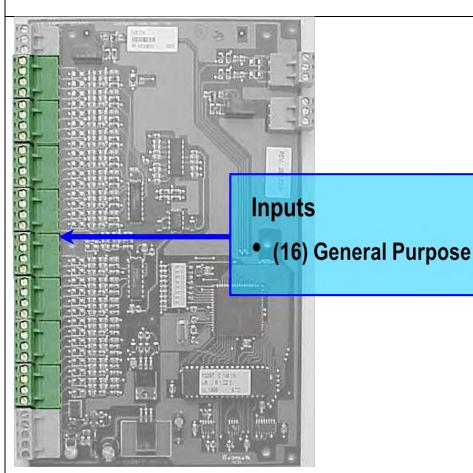
The IO boards all communicate to the IC by way of the RS485 communications bus. The connections are at the bottom of the board because the RS485/Power connector on the IC board is also located at the bottom of the board. When the IC and IO boards are rack mounted in a cabinet then all of the RS485/Power connectors are aligned and a single cable (Daisy Chain) across the bottom of the cabinet connects them.

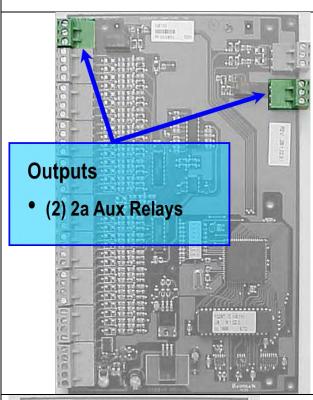
Note: The IC has 4 RS485 connectors and the RS485/Power connector is Port 6.

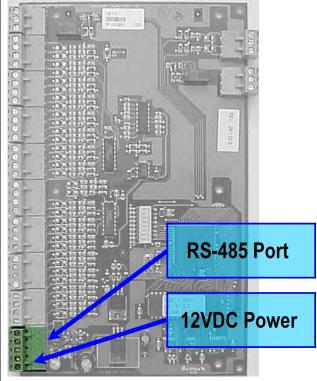
16 Input board



The 16 Input Module has 16 programmable inputs. They can be selected as Open, Closed, or Supervised. If they are supervised they can use the default of 1000 ohms resistance or you can create custom resistance values. Each of the 16 points can be programmed differently if desired.









Input 13 13 Com

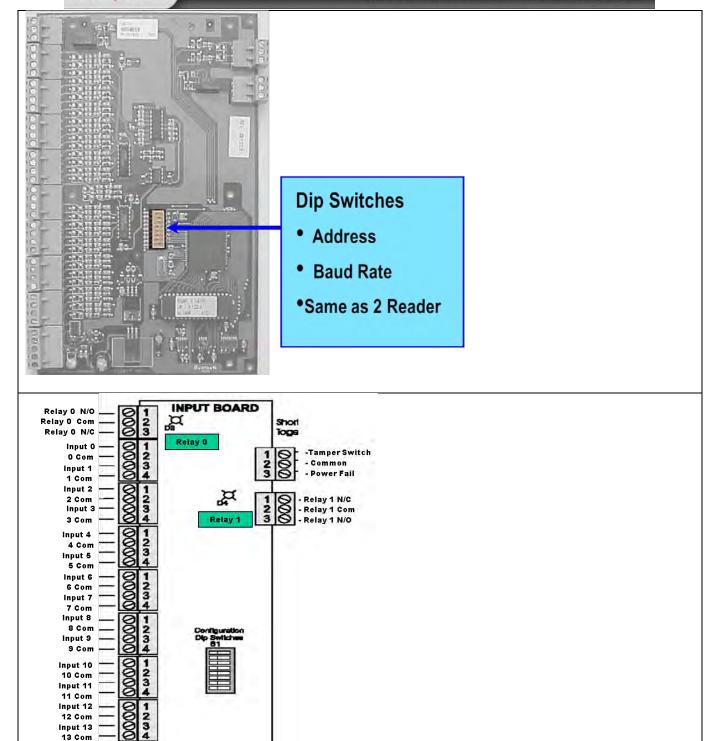
Input 14 14 Com Input 15 15 Com

RS 485 + RS 485 -RS 485 GND

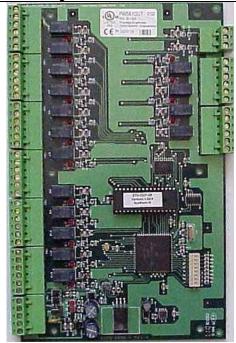
Power 12 DC + Power 12 DC - 1234

1 2 3

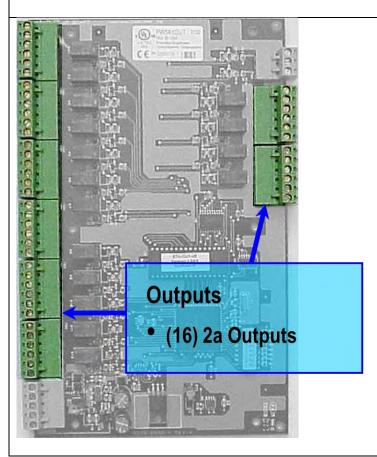
1 2

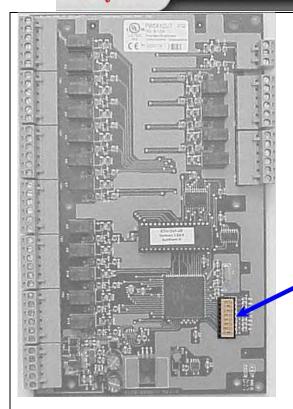


16 Output Board



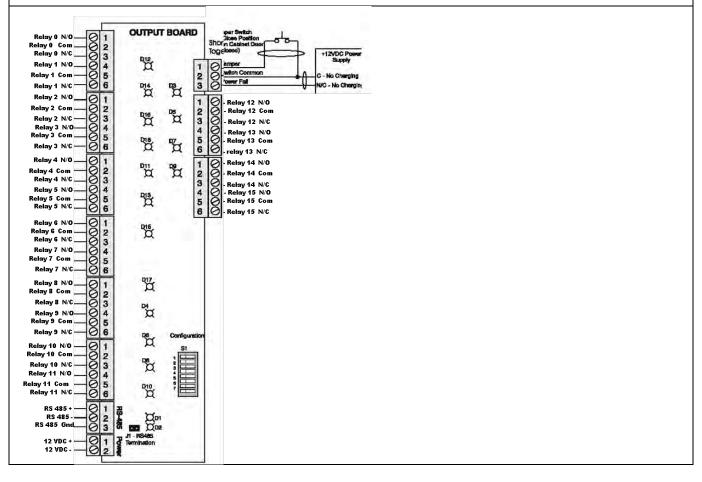
The 16 Relay Output Board has 16 2 amp relays. They each have Common, Normally Open, and Normally Closed contacts.

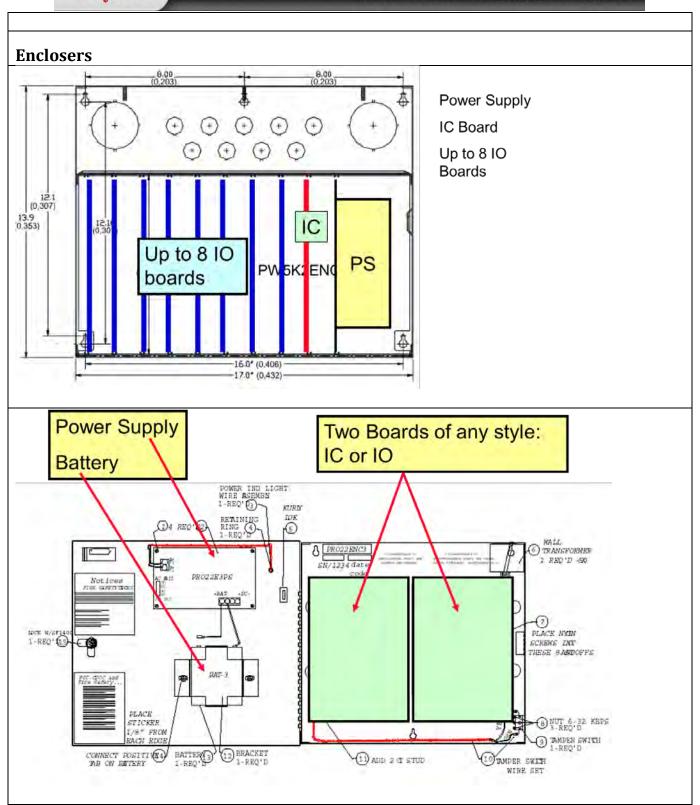




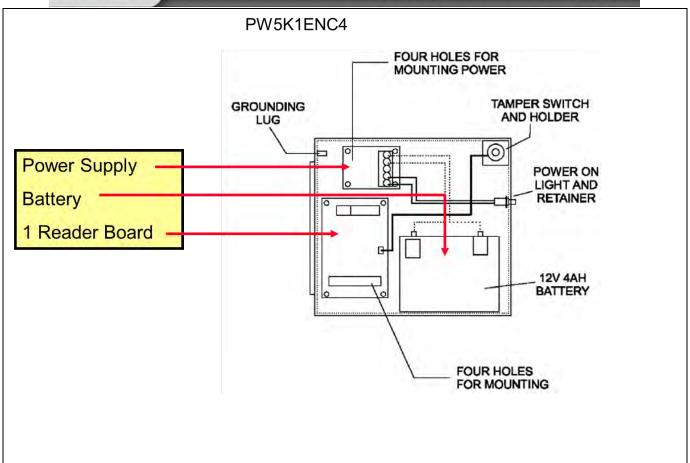
Dip Switches

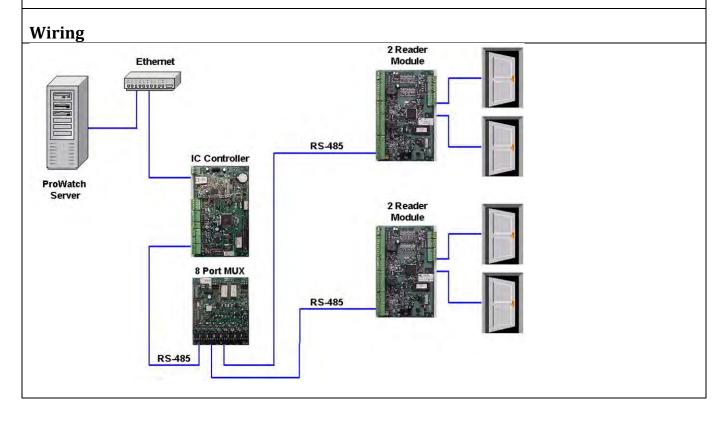
- Address
- Baud Rate
- Same as 2 Reader



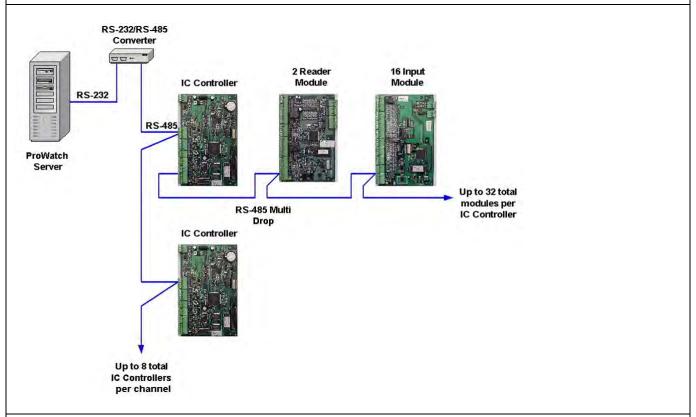


Honeywell The Honeywell discover training program





The multiplexer has one RS485 input and 8 RS485 outputs. Each one can be up to 4000ft long. It converts daisy chain the Star.



Daisy chaining up to 8 IC boards off of one RS232 com port. Each IC supports up to 32 IO boards.