

CardAccess® 3000 

Continental Access

A Napco Security Group Company



CA3000 V2.7.x FUNCTIONAL TECH NOTES

FEATURE EXPLAINED:

Multi Area APB

Doc # FTN0005

REVISION A

DATE: 4/09/2010

CardAccess® 3000 



CA3000 Functional Tech Notes

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Important Information - Must be read before programming software.

- 1) This functional Tech Note will provide you with a basic summary of the advanced feature noted on the cover page. In some cases, you must customize the feature for your specific application.
- 2) Before programming any advanced features, verify all the basic components of CA3000 are programmed. Verify the CardAccess 3000 software is functioning properly (refer to the V2.7 Quick Start Programming Guide).
- 3) If possible, always refer to the Continental Access website (www.cicaccess.com click Support/click Document Library) for the latest documentation. The released CD may not have the most recent documentation.
- 4) Panels must be running firmware version 3.x or higher for the ability to use advanced features.

Multi-Area Anti-Passback

Multi-Area APB provides the ability to configure nested areas to control traffic flow throughout a facility. When using standard APB, the readers are configured as IN and OUT readers. When using Area APB readers, the readers are configured as ENTRY and EXIT readers.

Configuring Multi-Area Anti-Passback

Follow the steps below:

1. On the main menu, click System/System Settings. Refer to figure 1.

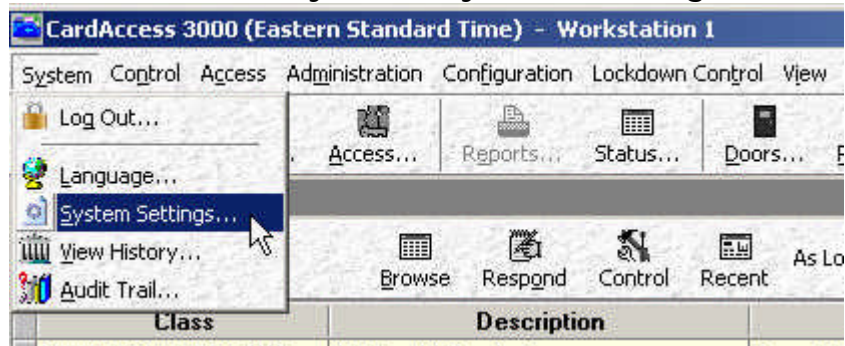


Figure 1.

2. Click the Badges tab. Click Edit. Select Enable APB Areas... Refer to figure 2. Click Save and Close.

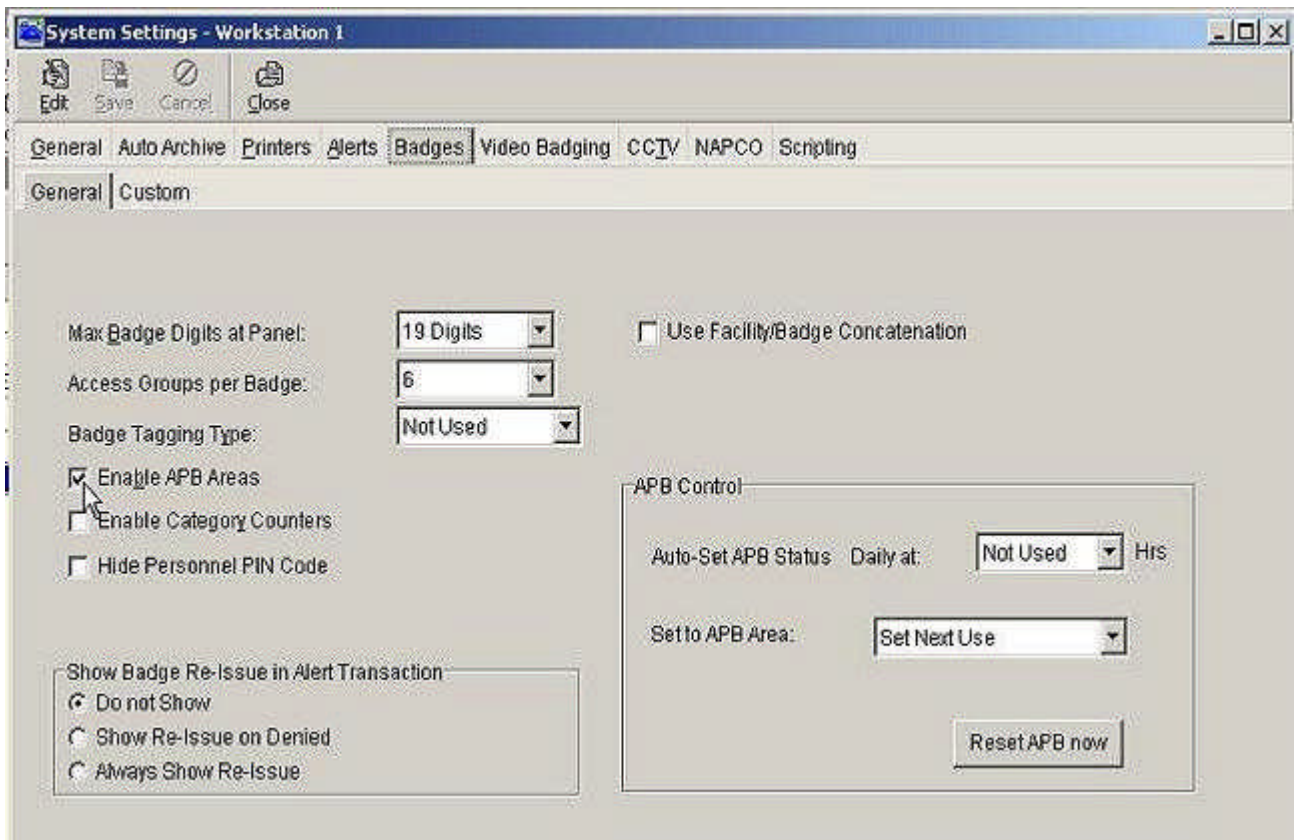


Figure 2.

3) On the main menu, click Access/APB Areas. Refer to figure 3.

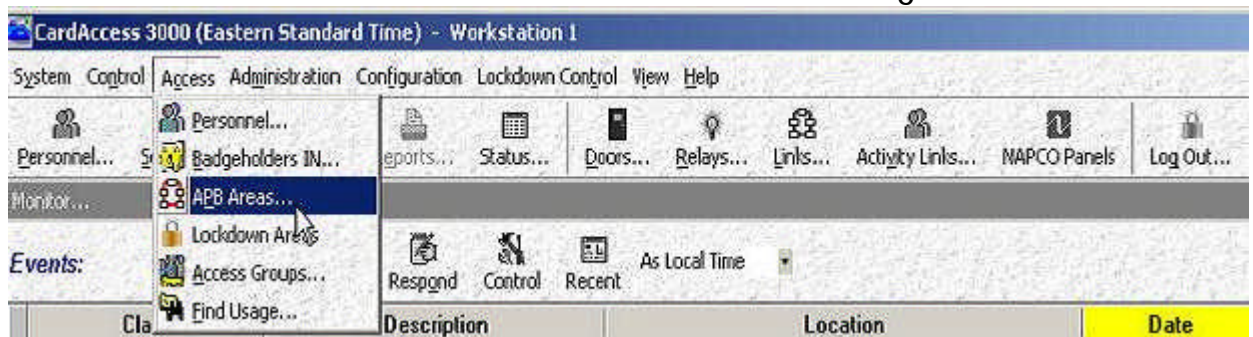


Figure 3.

4) Verify the APB Areas screen displays. Refer to figure 4. Click New.

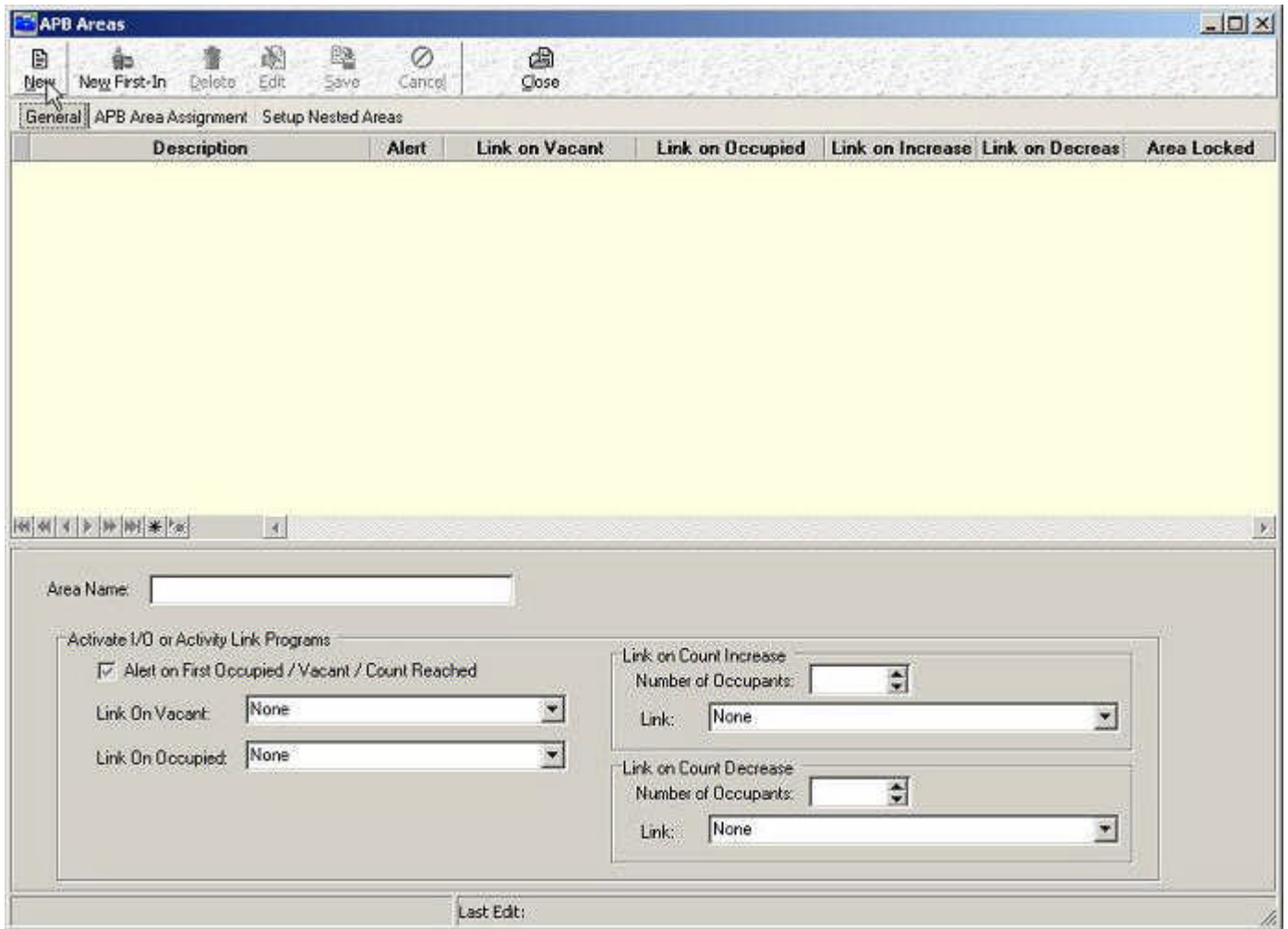


Figure 4.

Note: For our example, configure two areas (Main Lobby and Equipment Room) as per the following screen shots. Create one APB Area at a time. Click New and Save for each one.

The APB Areas screen consists of the following controls:



Figure 5.

Area Name – Descriptive name of Area (Set to Main Lobby for the first area). Refer to figure 5.

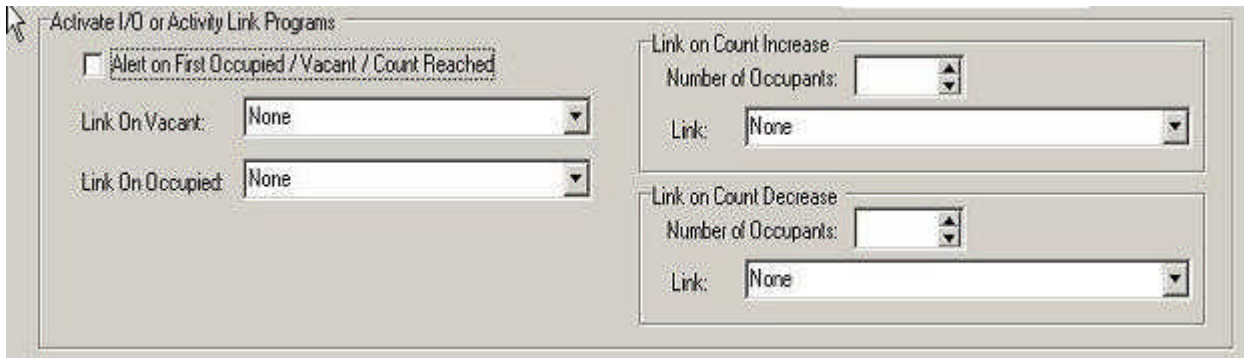


Figure 6.

Note: Refer to figure 6 for the following information.

Activate I/O or Activity Link Programs

Alert on First Occupied/Vacant/Count Reached – When this checkbox is selected, an alert will display indicating area is occupied, vacant or when a count has been reached for the area. If this is checked, the system will generate the following system events for the conditions described below.

Note: For this example, Do Not select the Alert on First Occupied/Vacant/Count Reached checkbox.

If the Alert on First Occupied/Vacant/Count Reached checkbox is checked, the system will generate the following system events for the conditions described below.

SYSTEM	APB Area Vacant	Lobby	3/3/2010 11:41:28 AM	Admin	3/3/2010 11:41:45 AM
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SYSTEM	APB Area Occupied	Lobby	3/3/2010 11:40:38 AM	UnAcked	3/3/2010 11:41:05 AM
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SYSTEM	APB Area Count Reached	Lobby	3/3/2010 11:46:34 AM	UnAcked	3/3/2010 11:47:00 AM
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Link on Vacant – When an activity link is configured in the drop down box, the activity link will activate when the area is vacant.

Link on Occupied – When an activity link is configured in the drop down box, the activity link will activate when the area is occupied.

Link on Count Increase – When an activity link is configured in the drop down box, the activity link will activate when the value set in the Number of Occupants box is reached.

Link on Count Decrease – When an activity link is configured in the drop down box, the activity link will activate when the value decreases to the value configured in the Number of Occupants box.

Note: For this example, Do NOT configure any activity links.

5) Repeat the steps above, and create a second APB Area. Configure the name for the second APB Area to Equipment Room. Refer to figure 9.

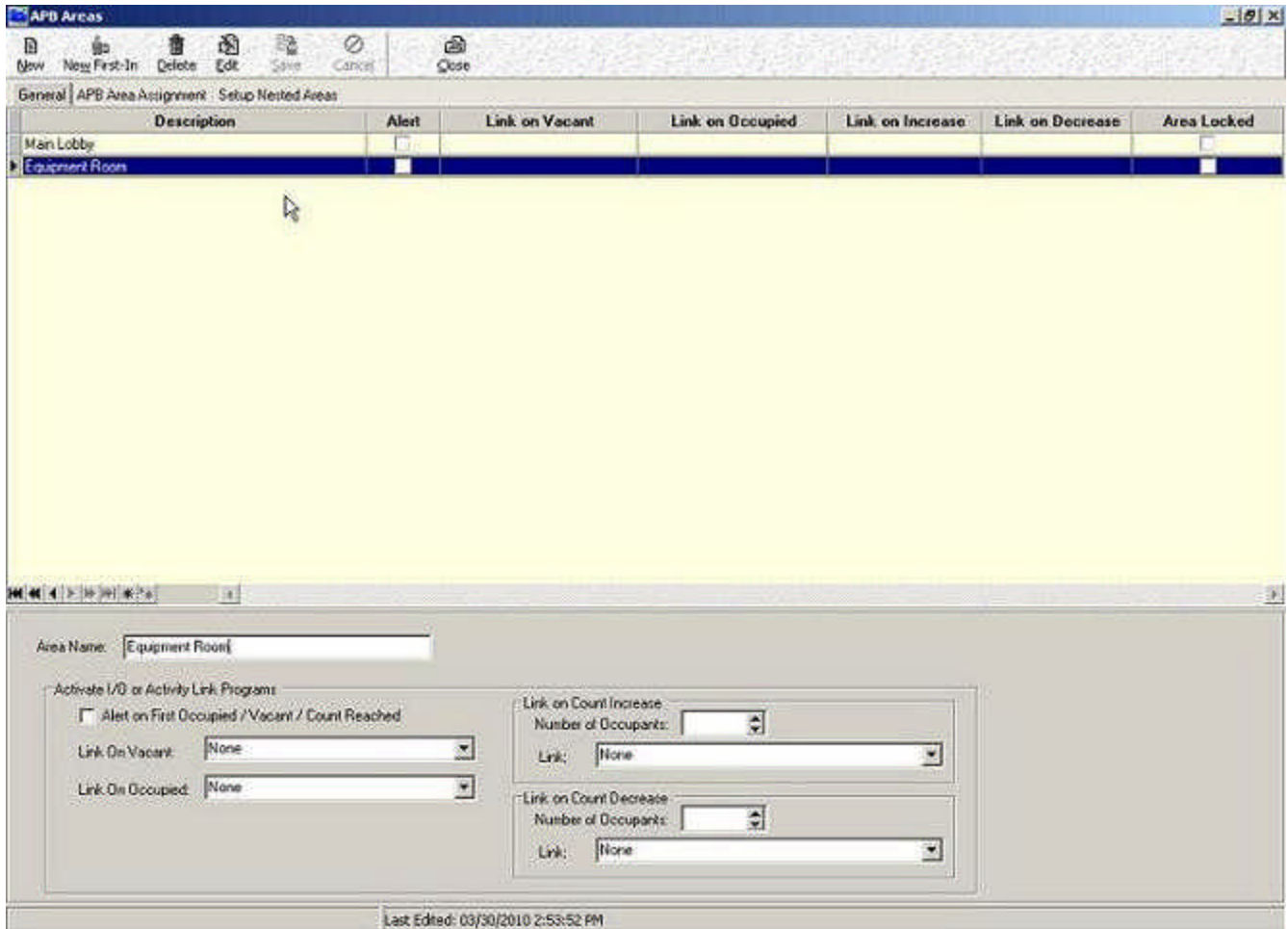


Figure 9.

- 6) On the main menu, click Access/Badgeholders-IN. Refer to figure 10. Verify the Badgeholders-IN report displays. The Badgeholders-IN report displays who is IN, and what area they are in.

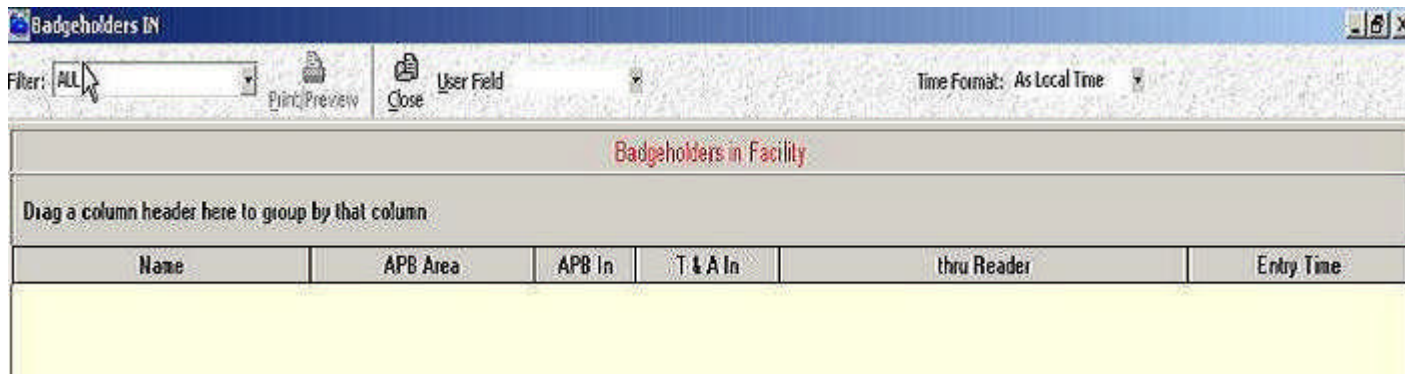


Figure 10.

Note: By default, the Badgeholders-IN report will not display badges that are considered OUTSIDE. You can change the filter to display badges that are OUTSIDE.

- 7) Verify the In-List is empty as per figure 10. If there are badges in the In-List, perform a global APB reset. To perform a global APB reset, click System/System Settings. Refer to figure 11.

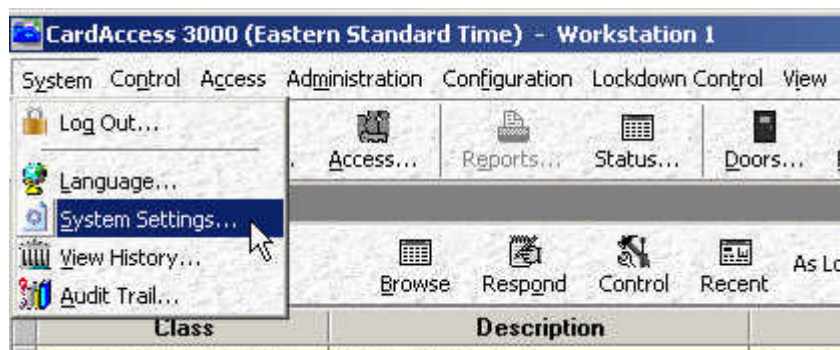


Figure 11.

8) Click the Badges tab. Click the Reset APB now button. Refer to figure 12.

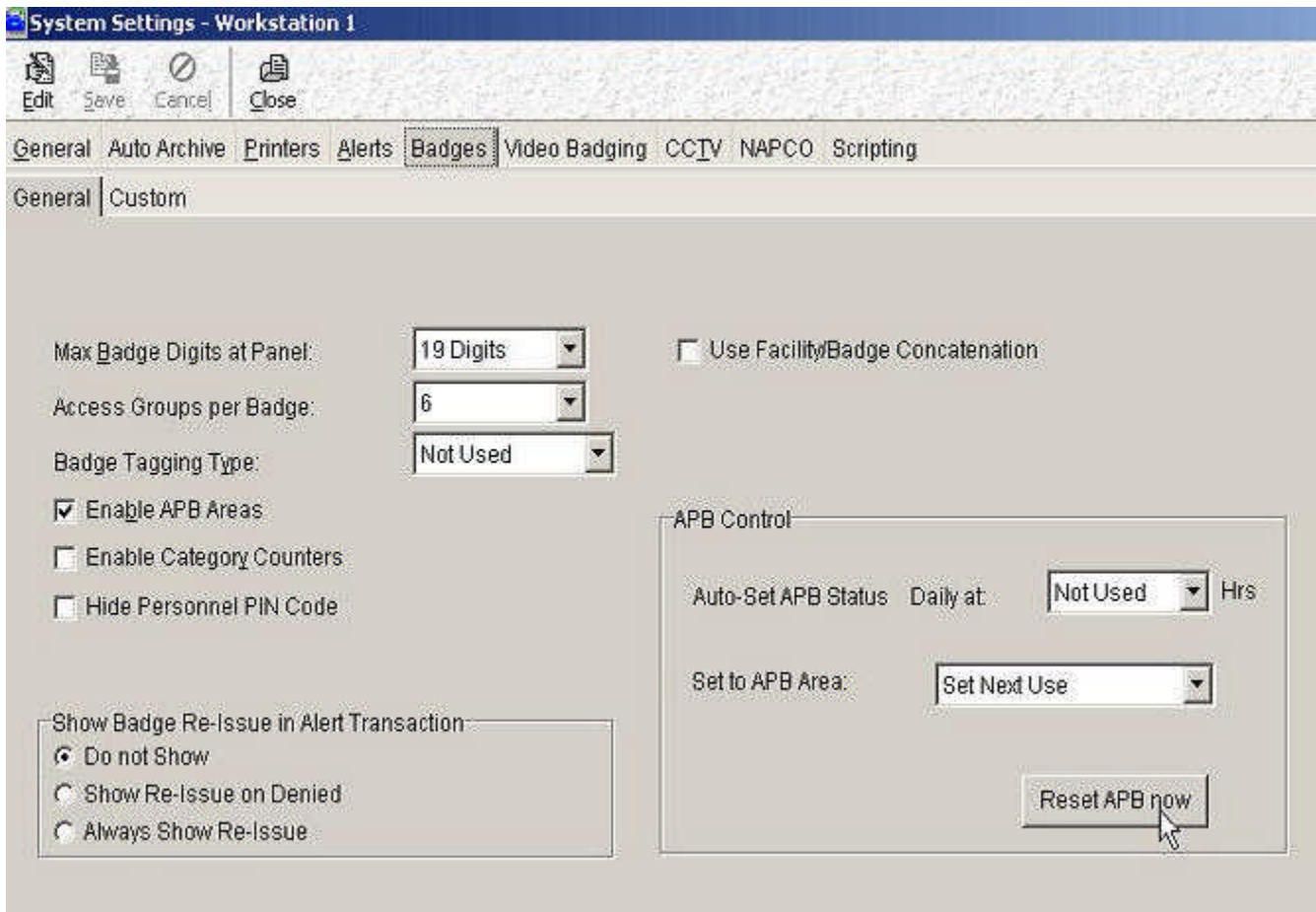


Figure 12.

9) After performing the Reset APB now, click Close. A Warning screen will display. Click Yes. After performing the APB Reset, verify the In-List is empty. Refer to figure 10.

Configure Readers

There are two methods for assigning areas to readers. For this example, use either method. You can choose to use any four readers. This example uses the readers as per figures 13, 14, 15, and 16.

METHOD ONE: Configure the APB EXIT and APB ENTRY on Readers screen. Refer to figures 13, 14, 15, and 16.

METHOD TWO: Use the APB assignment screen. Refer to figure 17. After the area assignments are completed, verify the settings are correct on the readers screen (Refer to figures 13, 14, 15 and 16).

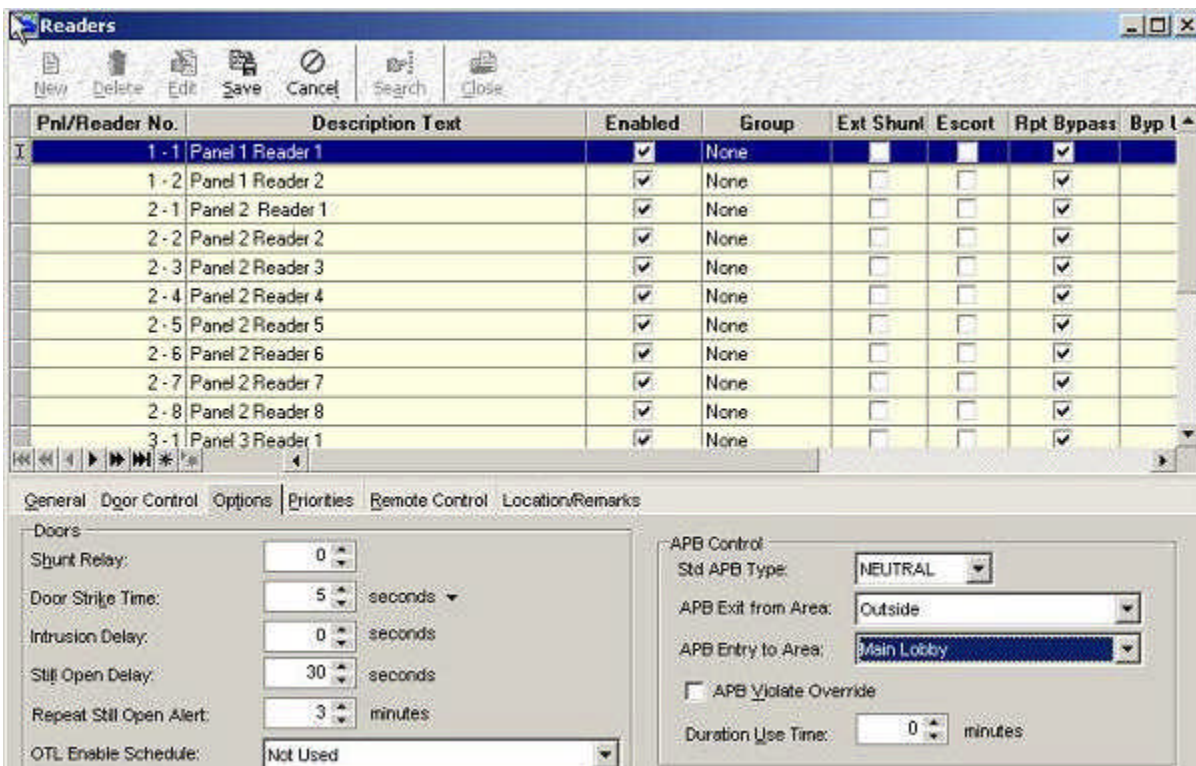


Figure 13.

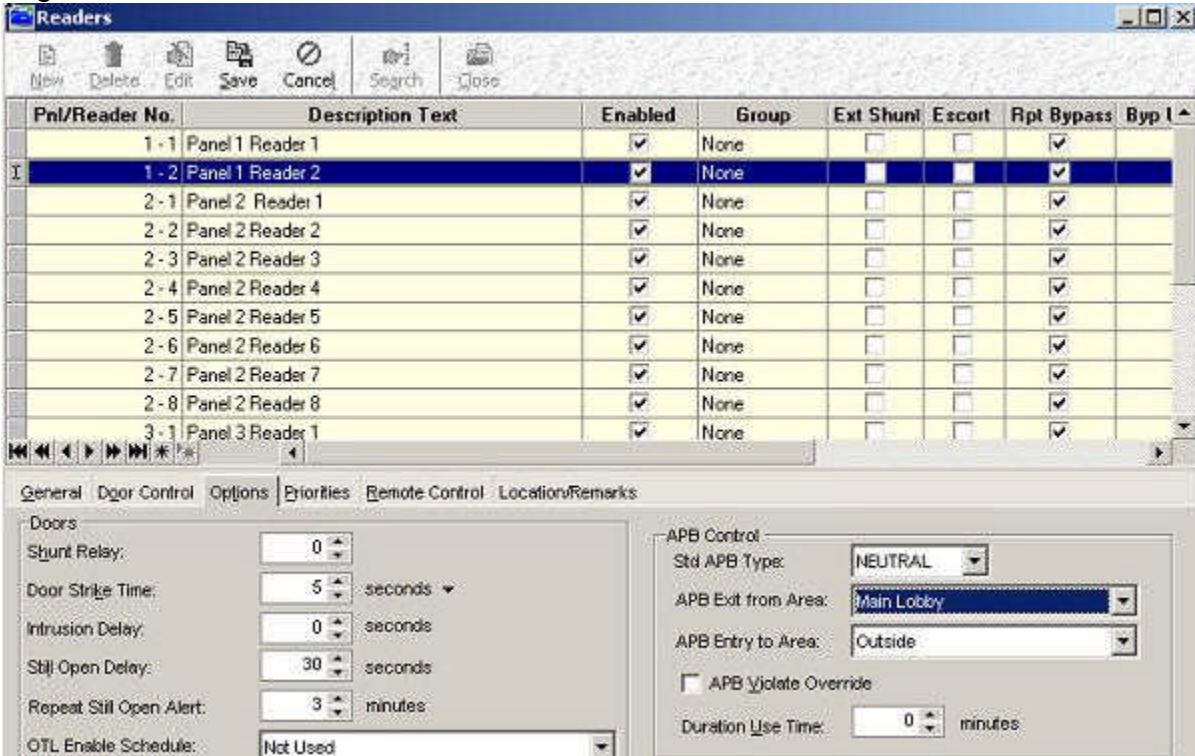


Figure 14.

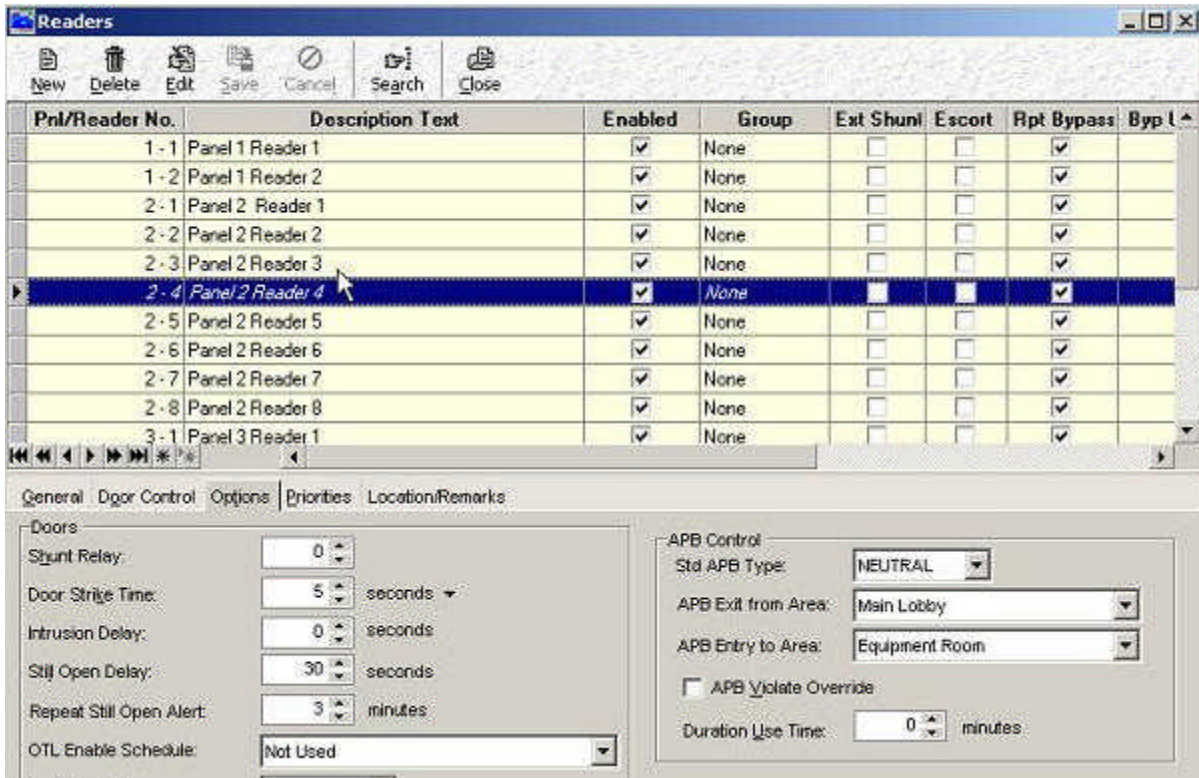


Figure 15.

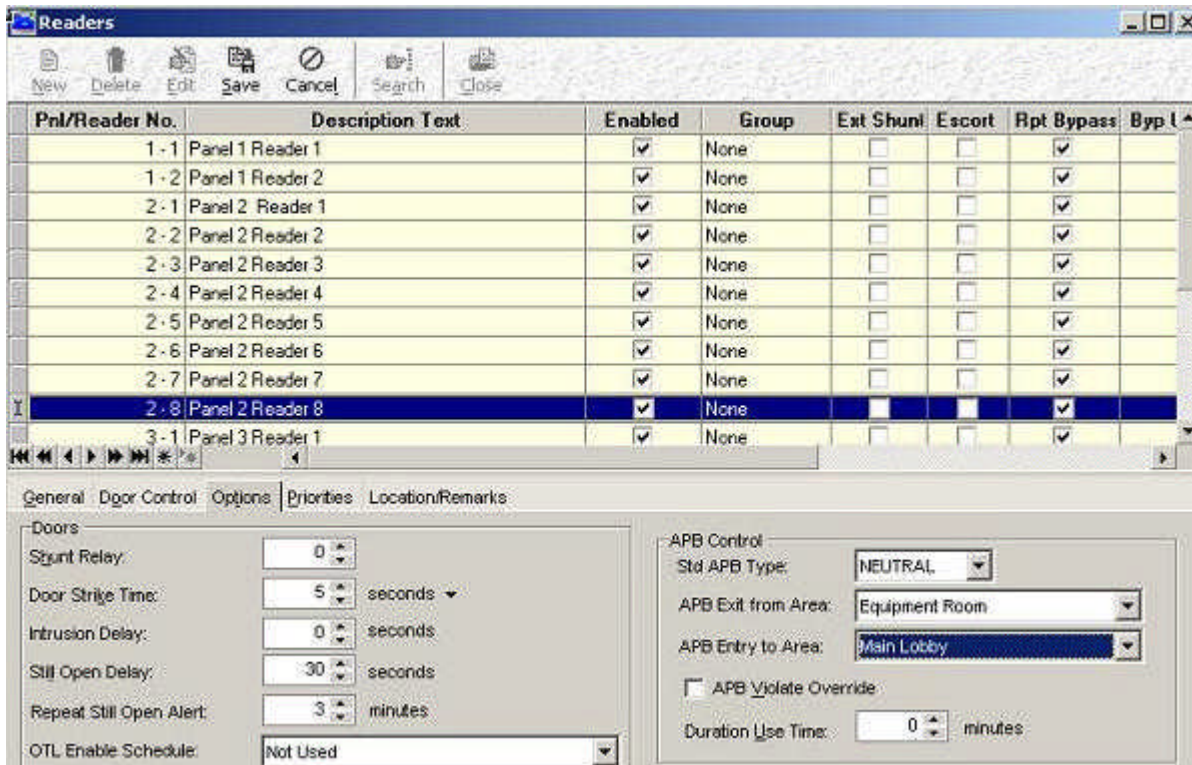


Figure 16.

Pnl	Rdr	Reader	Exit from Area	Entry into Area
1	1	Panel 1 Reader 1	Outside	Main Lobby
1	2	Panel 1 Reader 2	Main Lobby	Outside
2	1	Panel 2 Reader 1	None	None
2	2	Panel 2 Reader 2	None	None
2	3	Panel 2 Reader 3	None	None
2	4	Panel 2 Reader 4	Main Lobby	Equipment Room
2	5	Panel 2 Reader 5	None	None
2	6	Panel 2 Reader 6	None	None
2	7	Panel 2 Reader 7	None	None
2	8	Panel 2 Reader 8	Equipment Room	Main Lobby
3	1	Panel 3 Reader 1	None	None
3	2	Panel 3 Reader 2	None	None
3	3	Panel 3 Reader 3	None	None
3	4	Panel 3 reader 4	None	None
3	5	Panel 3 Reader 5	None	None
3	6	Panel 3 Reader 6	None	None
3	7	Panel 3 Reader 7	None	None
3	8	Panel 3 Reader 8	None	None

Figure 17.

Configure badges in Personnel for testing

10) Configure a minimum of two badges in Personnel for the following test.

Testing the APB Areas function

Reminder: Verify the Badgeholders-IN List is empty as per step 6.

Note: For this example, we will use two badges (#638 and #9235). The starting location for both badges will be outside the building.

11) Present the first badge to the reader outside the building. For this example, it is Panel 1, Reader 1 (Refer to figure 13). Verify a Badge Valid displays.

12) Verify the Badgeholders-IN List displays one badge (#638) in the Main Lobby Area. Refer to figure 18.



The screenshot shows a software window titled "Badgeholders IN". The interface includes a menu bar with "File", "Edit", and "View" options. Below the menu bar, there are several controls: a dropdown menu set to "ALL", a "Print/Preview" button, a "Close" button, a "User Field" dropdown, and a "Time Format: As Local Time" dropdown. The main content area has a red header "Badgeholders in Facility" and a grey instruction bar that says "Drag a column header here to group by that column". Below this is a table with the following data:

Name	APB Area	APB In	T & A In	thru Reader	Entry Time
Smith, John 638	Main Lobby			1-1 Panel 1 Reader 1	4/11/2010 4:17:12 PM

Figure 18.

13) Present the second badge (badge # 9235) to the reader outside the building. For this example, it is Panel 1, Reader 1 (Refer to figure 13). Verify a Badge Valid displays.

14) Verify the Badgeholders-IN List displays two badges (#638 and #9235) in the Main Lobby Area. Refer to figure 19.

Name	APB Area	APB In	T & A In	thru Reader	Entry Time
Smith, John 638	Main Lobby			1-1 Panel 1 Reader 1	4/1/2010 4:17:12 PM
Jones, Mary 9235	Main Lobby			1-1 Panel 1 Reader 1	4/1/2010 4:18:20 PM

Figure 19.

15) Present badge # 638 to Panel 2, Reader 4. In this example, this is the reader entering the equipment room from the Main Lobby (Refer to figure 15). Verify a Badge Valid displays on the event grid.

16) Verify the Badgeholders-IN List displays badge #638 is in the Equipment Room and badge # 9235 is still in the Main Lobby. Refer to figure 20.

Name	APB Area	APB In	T & A In	thru Reader	Entry Time
Smith, John 638	Equipment Room			2-4 Panel 2 Reader 4	4/1/2010 4:19:20 PM
Jones, Mary 9235	Main Lobby			1-1 Panel 1 Reader 1	4/1/2010 4:18:20 PM

Figure 20.

17) Present badge # 638 to Panel 2, Reader 8. In this example, this is the reader exiting the Equipment room into the Main Lobby (Refer to figure 16). Verify a Badge Valid displays on the event grid.

18) Verify the Badgeholders-IN List displays badge #638 and badge # 7235 are both in the Main Lobby. Refer to figure 21.

The screenshot shows a window titled "Badgeholders IN" with a toolbar containing "Filter: ALL", "Print/Preview", "Close", and "User Field". The main area displays "Badgeholders in Facility" and a table with the following data:

Name	APB Area	APB In	T & A In	thru Reader	Entry Time
Smith, John 638	Main Lobby			2-8 Panel 2 Reader 8	4/1/2010 4:20:48 PM
Jones, Mary 9235	Main Lobby			1-1 Panel 1 Reader 1	4/1/2010 4:18:20 PM

Figure 21.

19) Present badge # 638 and badge # 9235 to Panel 1, Reader 2. In this example, this is the reader exiting the Main Lobby to the Outside (Refer to figure 14). Verify a Badge Valid displays on the event grid.

20) Verify badge #638 and badge # 9235 do not display in the Badgeholders-IN list. Both badges are OUTSIDE. As previously noted, the Badgeholders-IN report will not display badges OUTSIDE by default. Refer to figure 22.

The screenshot shows the same "Badgeholders IN" window. The toolbar now includes a "Filter:" dropdown menu. The main area displays "Badgeholders in Facility" and a table with the following structure, but it is currently empty:

Name	APB Area	APB In	T & A In	thru Reader	Entry Time
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Figure 22.

CONFIGURING NESTED AREAS FOR GROUPING AREAS (optional)

Configuring Nested Areas is for viewing the Badgeholders-IN list and having the ability to filter on these Nested groups. You must configure all the areas and readers prior to setting up Nested Areas. Refer to figure 23 to configure the Nested Groups. Refer to figure 24 to select your filtering in the Badgeholders-IN list.

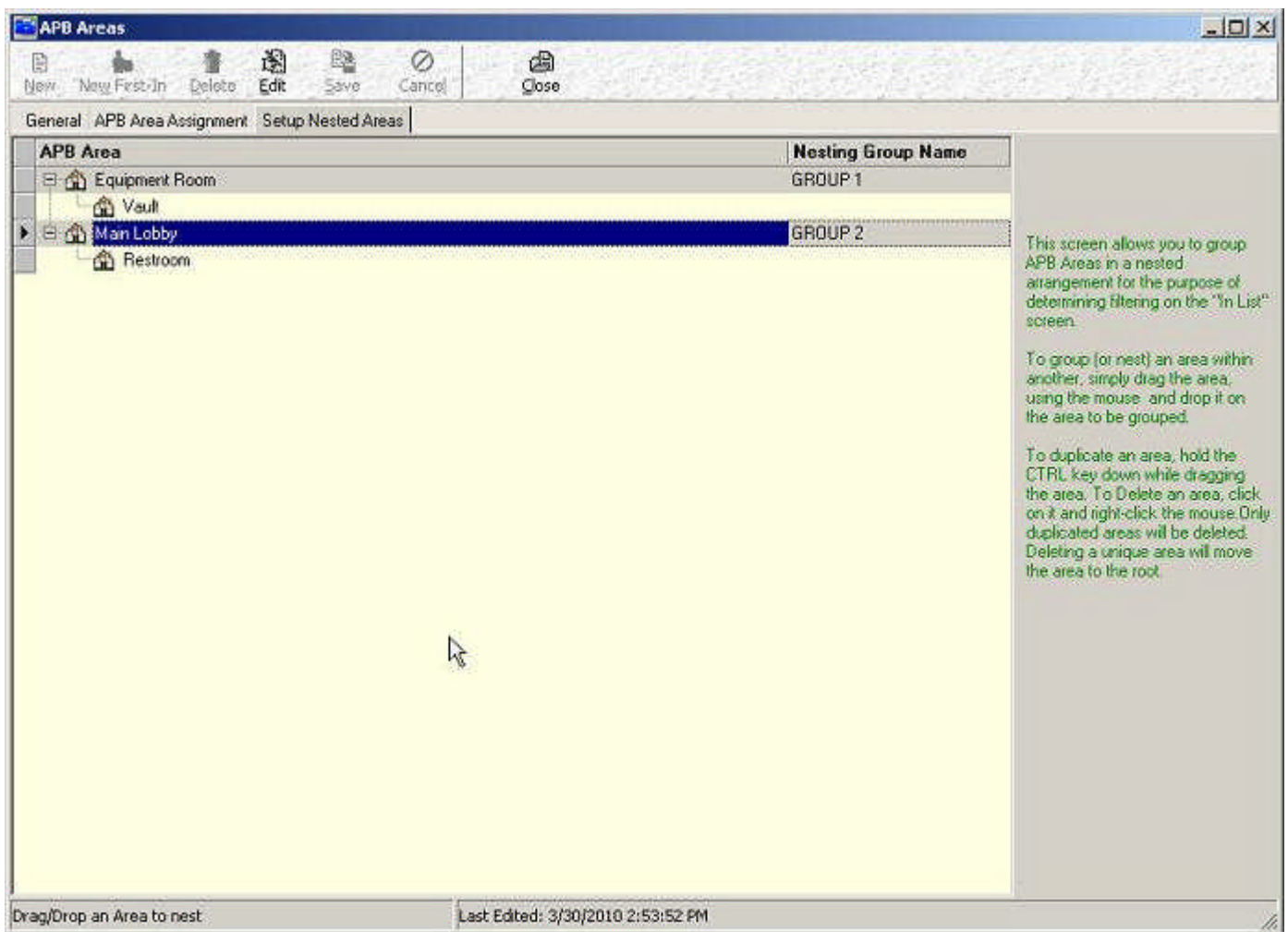


Figure 23.

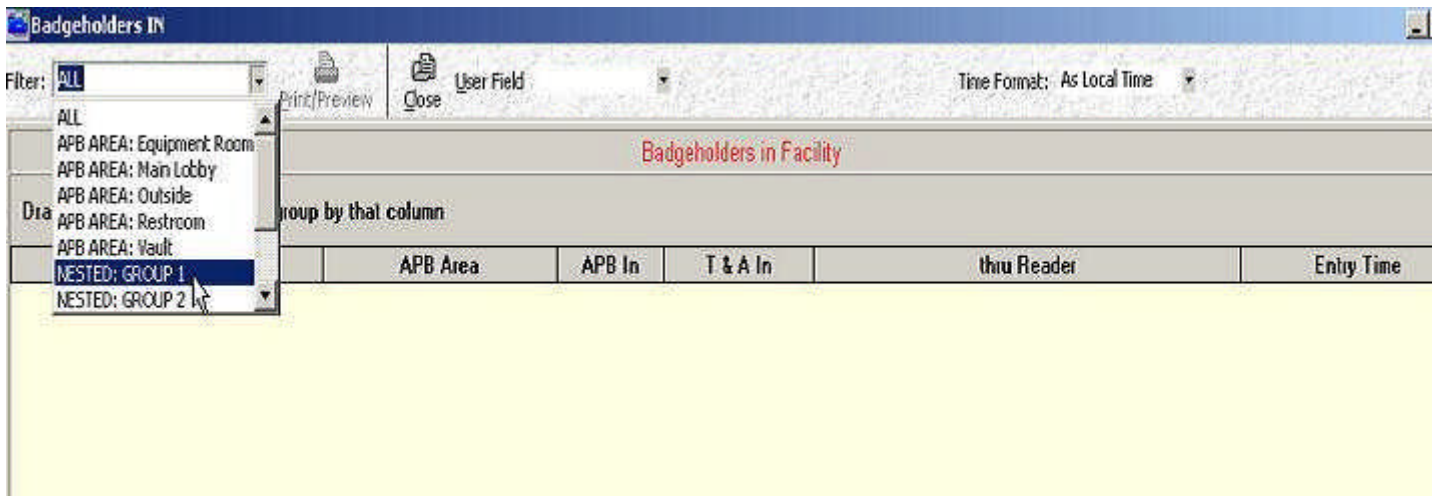


Figure 24.

This completes the APB Area function.