

Building Access 32

USER MANUAL



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Revision History

March 7, 2013	Added COS Mode, Elevator, Floor Lighting, and Port Customization
August 8, 2011	Added "Exit Mode"
February 10, 2011	Included instructions for using In-Facility Elevator Mode
November 12, 2010	Miscellaneous updates
August 27, 2010	Preliminary release

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1 Overview: Building Access Controller 32



Building Access Controller 32 (BACTL 32)

Control up to 32 doors with one unit

The Building Access Controller 32 (BACTL 32) interfaces to your door controllers and alarms, proxy card readers, and T/Mon Alarm Master. When someone waves a proxy card in front of the reader, the entry code is sent to the BACTL 32. The BACTL 32 then authenticates the code to see if it is valid for that specific door at that time.

While entry decisions are made by the Building Access Controller 32, the T/Mon is notified of entry activities and logs any intrusion alarms. The T/Mon is also responsible for provisioning the BACTL 32 with valid access codes.

Building Access Controller 32 features

- Controls up to 32 entry points
- Supports proxy card entry
- Easy hookup via standard RJ45 connector (1 per door)
- LAN communication with T/Mon
- Relay locks and unlocks each door
- Alarm point monitors each door for open and close

2 Shipping List

Please make sure all of the following items are included with your Building Access Controller 32. If parts are missing, or if you ever need to order new parts, please refer to the part numbers listed and call DPS Telecom at **1-800-622-3314**.



Building Access Controller 32
D-PK-BACTL



User Manual
D-UM-BACTL.12002



3/4-Amp GMT Fuses
2-741-00750-00



6 ft. DB9M-DB9F Download Cable
D-PR-045-10A-04



19" Rack Ears
D-CS-325-10A-00



Resource CD



14 ft. Ethernet Cable
D-PR-923-10A-14



Lg. Power Connector (Main Pwr)
2-820-00862-02



23" Rack ears
D-CS-325-10A-01

**x 4**

Four 3/8" Ear Screws
1-000-60375-05

**x 2**

Two Metric Rack Screws
2-000-80750-03

**x 2**

Two Standard Rack Screws
1-000-12500-06



Pads
2-0150-00030-00

**x 32**

32 Diodes
2-302-04002-00

3 Installation

3.1 Tools Needed

To install the Building Access Controller 32, you'll need the following tools:



Phillips No. 2 Screwdriver



Small Standard No. 2 Screwdriver



PC with terminal emulator,
such as HyperTerminal

3.2 Mounting



The Building Access Controller 32 can be flush or rear-mounted

The Building Access Controller 32 mounts in a 19" rack or a 23" rack using the provided rack ears for each size. Two rack ear locations are available. Attach the appropriate rack ears in the flush-mount or rear-mount locations, as shown above.

Note: Rack ears can be rotated 90° for wall mounting or 180° for other mounting options (not shown).

19" rack ears

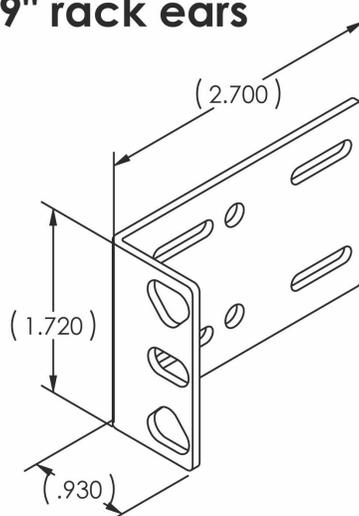


Fig. 4.2

23" rack ears

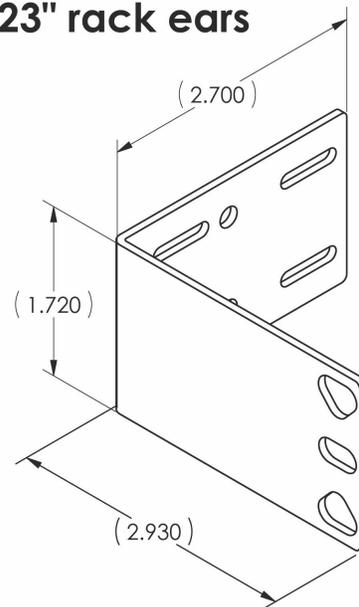
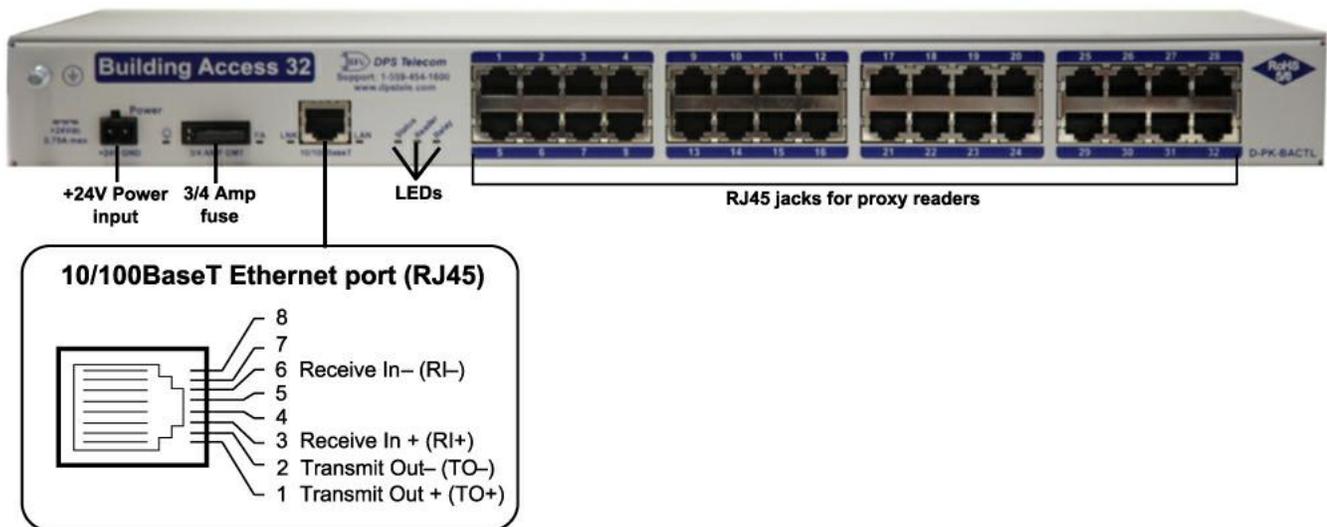


Fig. 4.3

4 BACTL 32 Front Panel



Building Access Controller 32 panel connections

4.1 Power Connection (+24VDC)

The Building Access Controller 32 is powered by a single terminal barrier plug power connector.

To connect the Building Access Controller 32 to a power supply, follow these steps:

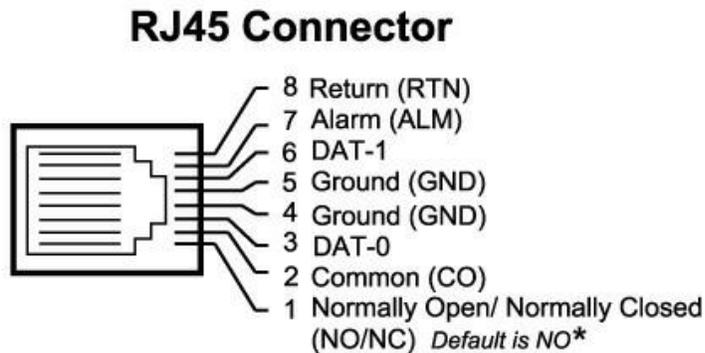
1. Always use safe power practices when making power connections. Be sure to remove fuses from the fuse distribution panel, as well as the back of the Building Access Controller 32, before making your power connections.
2. Use the grounding lug to connect the unit to earth ground. The grounding lug is next to the symbol . Insert the eyelet of the earth ground cable between the two bolts on the grounding lug (Ground cable not included).
3. Insert a battery ground into the power connector plug's right terminal and tighten the screw; then insert a battery line to the plug's left terminal and tighten its screw.
4. Insert a fuse into the fuse distribution panel and measure voltage. The voltmeter should read between +18 and +30VDC.
5. The power plug can be inserted into the power connector only one way to ensure the correct polarity. Note that the positive voltage terminal is on the left and the GND terminal is on the right.
6. Insert fuse into the Power fuse slot. The power LED should be lit green. If the LED is off, the power connection may be reversed. To confirm that power is correctly connected, the front panel LEDs will flash RED and GREEN, indicating that the firmware is booting up.

4.2 LAN Connection

To connect the Building Access Controller 32 to LAN, insert a standard RJ45 Ethernet cable into the 10/100BaseT Ethernet port. If the LAN connection is OK, the LNK LED will light **SOLID GREEN**.

4.3 Proxy Card Reader Connection

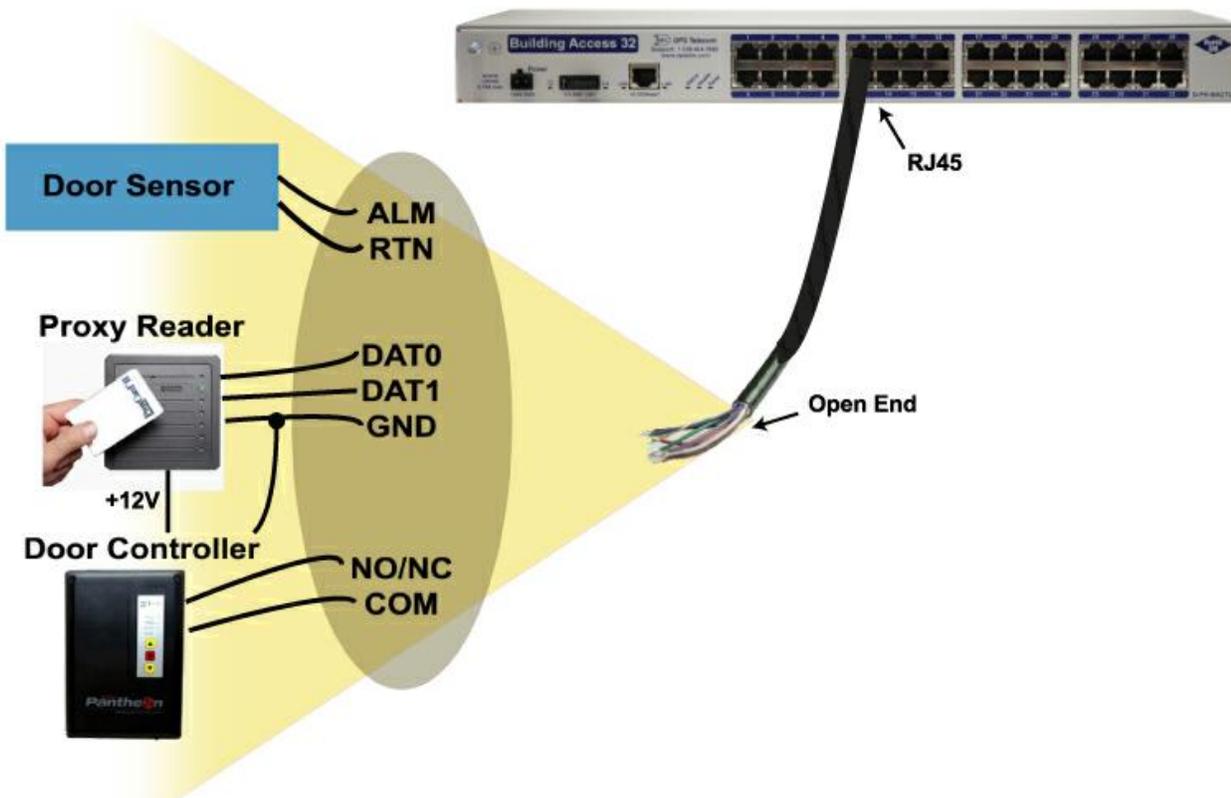
The Building Access Controller 32 uses RJ45 to open-end cables to connect to your door sensors, proxy card readers, and door controller. Below is a topology drawing with pinouts used when connecting these devices.



Pin	Signal
1	NO/NC*
2	CO
3	DAT-0
4	GND
5	GND
6	DAT-1
7	ALM
8	RTN

*see "Adjusting Relay Operation"

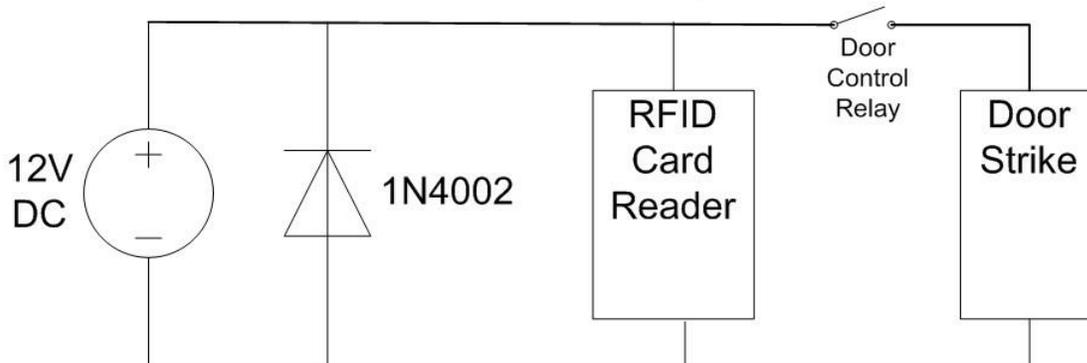
Open-end





Hot Tip!

DPS Telecom suggests placing a protection diode across the power supply output if utilizing the same power supply to power both the door strike and RFID access card reader. This will protect the power supply from flyback from the door strike. We have included a 1N4002 (DPS Part # 2-302-04002-00) diode in this package to use for this protection.



4.4 Adjusting Relay Operation

The BACTL 32 contains 32 control relays used to lock/unlock doors. Each relay has a corresponding jumper that allows switching between the default "Normally Open" (NO) setting and the "Normally Closed" (NC) setting.

WARNING: Always observe anti-static precautions whenever opening the unit.

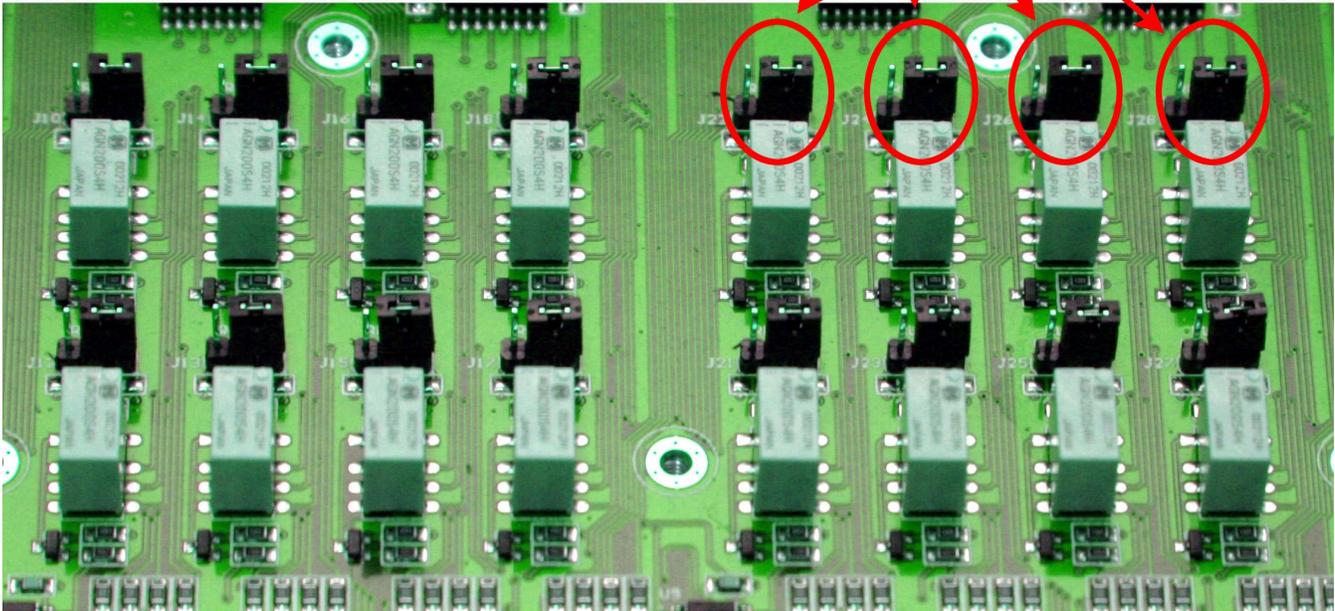
To change jumper configurations, remove all of the screws holding the top of the BACTL 32 metal chassis in place. Once the top of the chassis has been freed, carefully remove it and set it aside.

On the BACTL 32 circuit board, you will now see 4 groups of 8 relays, for a total of 32. Each relay is labeled on the circuit board from "RLY1" to "RLY32". This 1-32 numbering matches the numbering found in the BACTL 32 software interfaces.

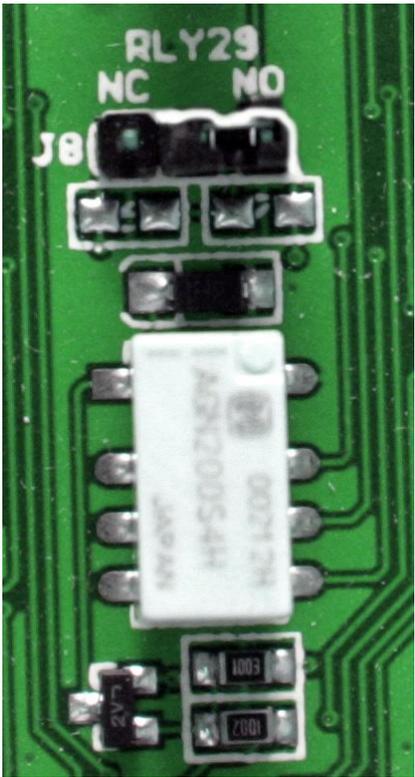
Each relay has a shunt located next to it. By default, a jumper will be installed in the NO position of each shunt.

Note: Default settings may be different if you ordered a special-configuration BACTL 32.

Shunts

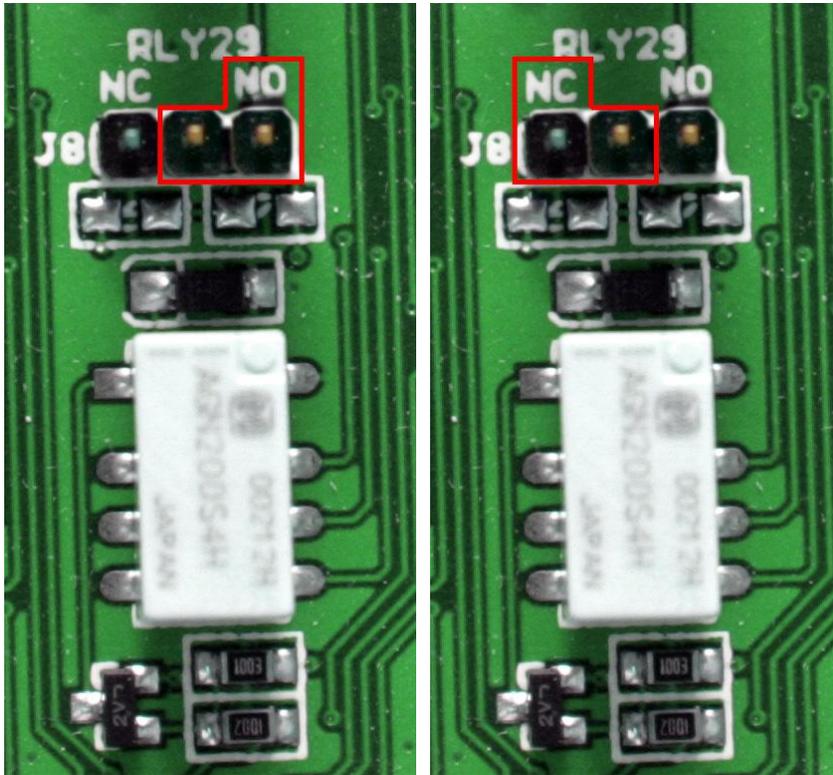


Shunts are located next to each of the 32 door relays

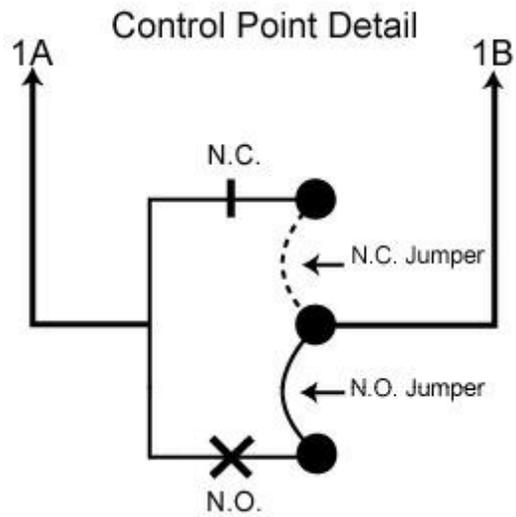


Top-down view of a single door relay and its corresponding shunt, with jumper in the default NO position.

To set a relay for "Normally Open" or "Normally Closed" operation, move the jumper to the appropriate location, as shown below.



Jumper location for "Normally Open" (NO) operation Jumper location for "Normally Closed" (NC) operation



Circuit diagram of a BACTL 32 door relay shunt

5 BACTL 32 Back Panel Craft Port

Use the back panel craft port to connect the Building Access Controller 32 to a PC to give it an IP address. To use the craft port, connect the included DB9 download cable from your PC's COM port to the craft port. Pinout is shown here for reference, but this is a standard DB9 to DB9.



6 Quick Start: How to Connect to the BACTL 32

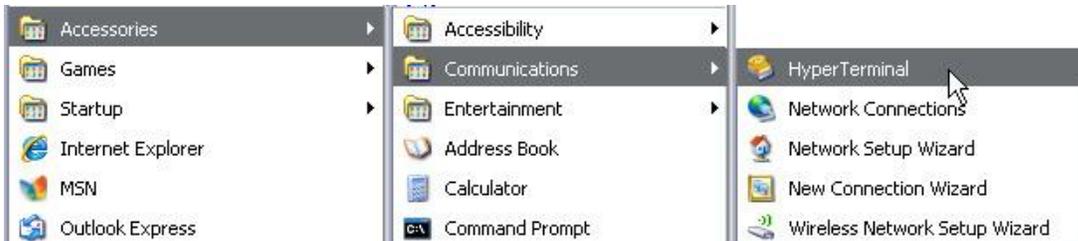
Most Building Access Controller 32 users find it easiest to give the unit an IP address, subnet and gateway through the front craft port (TTY interface) to start. Once these settings are saved and you reboot the unit, you can access it over LAN to do the rest of your databasing via the Web Browser interface. **Alternative option:** You can skip the TTY interface by using a LAN crossover cable directly from your PC to the Building Access Controller 32 and access its Web Browser.

6.1 ...via Craft Port (using TTY Interface)

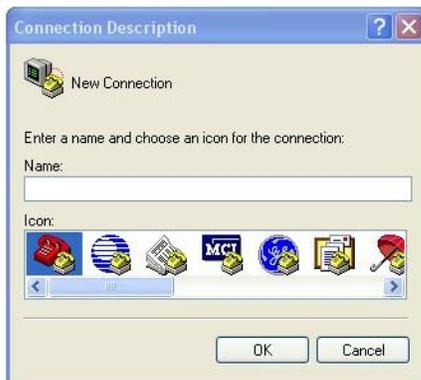
1. The simplest way to connect to the Building Access Controller 32 is over a physical cable connection between your PC's COM port and the unit's craft port. **Note:** You must be connected via craft port or Telnet to use the TTY interface. Make sure you are using the straight through (1 to 1) Male to Female DB9-DB9 download cable provided with your Building Access Controller 32 to make a craft port connection. We'll be using HyperTerminal to connect to the unit in the following example - however, most terminal-emulating programs should work.

To access HyperTerminal using Windows:

2. Click on the **Start** menu > select **Programs > Accessories > Communications > HyperTerminal**.



3. At the Connection Description screen, enter a name for this connection. You may also select an icon. The name and icon do not affect your ability to connect to the unit.



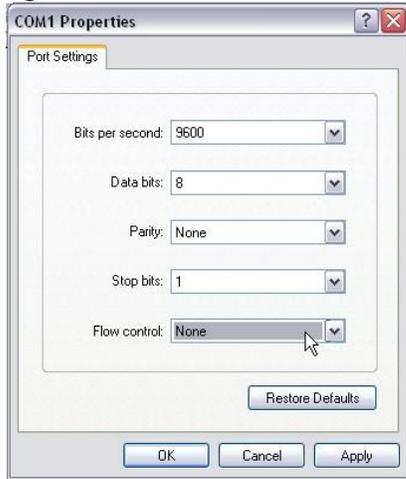
4. At the Connect To screen, select Com port you'll be using from the drop down and click OK. (COM1 is the most commonly used.)



5. Select the following COM port options:
 - Bits per second: 9600
 - Data bits: 8
 - Parity: None
 - Stop bits: 1
 - Flow control: **None**

6. When prompted, enter the default password **dpstelecom**. **NOTE:** If you don't receive a prompt for the password, check the Com port you are using on your PC and make sure you are using the cable provided.

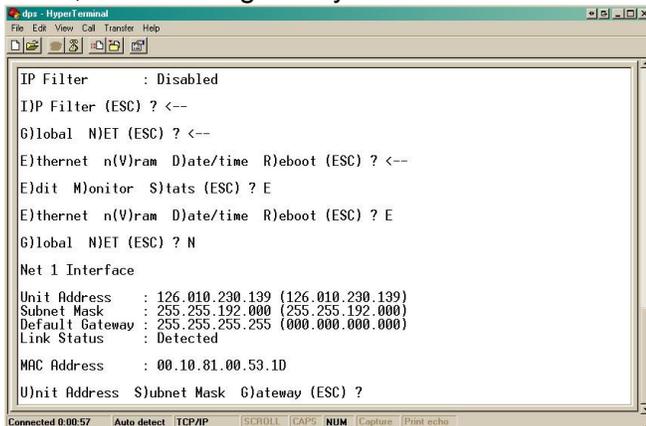
Once connected, you will see a blank, white HyperTerminal screen. Press Enter to activate the configuration menu.



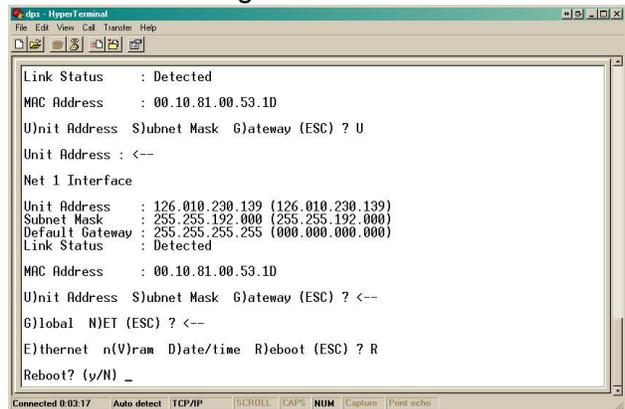
Additional cables can be ordered from DPS Telecom: *Part number D-PR-045-10A-04*



7. The Building Access Controller 32's main menu will appear. Type C for C)onfig, then E for E)thernet. Configure the unit's IP address, subnet mask, and default gateway.

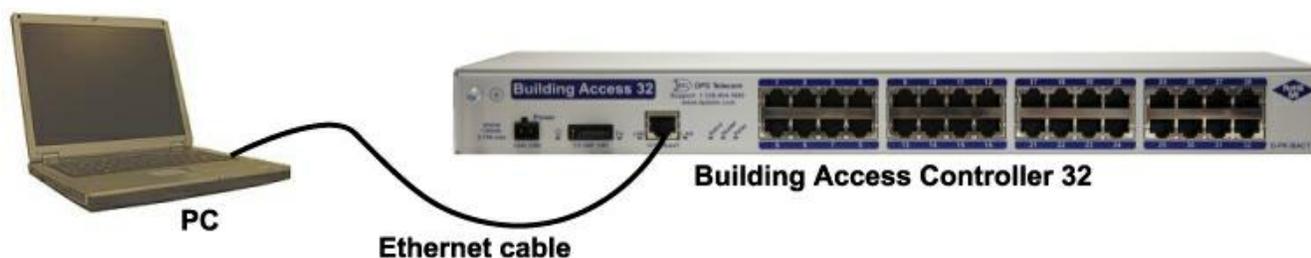


8. ESC to the main menu. When asked if you'd like to save your changes, type Y for Y)es. Reboot the Building Access Controller 32 to save its new configuration.



Be sure to change the IP of your computer back to one that operates on your network. **Now you're ready** to do the rest of your configuration via LAN. Plug your LAN cable into the Building Access Controller 32 and see Section "Logging On to the BACTL 32" to continue databasing using the Web Browser.

6.2 ...via LAN



Connection through Ethernet port

To connect to the Building Access Controller 32 via LAN, all you need is the unit's IP address (Default IP address is 192.168.1.100).

If you **DON'T** have LAN, but **DO** have physical access to the Building Access Controller 32, connect using a LAN crossover cable (not included). **NOTE:** Newer PCs should be able to use a standard straight-through LAN cable and handle the crossover for you. To do this, you will temporarily change your PC's IP address and subnet mask to match the Building Access Controller 32's factory default IP settings. Follow these steps:

1. Get a LAN crossover cable and plug it directly into the Building Access Controller 32's LAN port.
2. Look up your PC's current IP address and subnet mask, and write this information down.
3. Reset your PC's IP address to **192.168.1.200**. Contact your IT department if you are unsure how to do this.
4. Reset your PC's subnet mask to **255.255.0.0**. You may have to reboot your PC to apply your changes.
5. Once the IP address and subnet mask of your computer coincide with the unit, you can access the Building Access Controller 32 via a Telnet session or via Web browser by using the unit's default IP address of **192.168.1.100**.
6. Provision the Building Access Controller 32 with the appropriate information, then **change your computer's IP address and subnet mask back to their original settings**.

Now you're ready to do the rest of your configuration via LAN. Plug your LAN cable into the Building Access Controller 32 and see section "Logging On to the BACTL 32" to continue databasing using the Web Browser.

7 Quick Start: How to Setup BACTL 32 in T/Mon

In order for the Building Access Controller 32 to communicate with a T/Mon master station, it must be added to the T/Mon database.

To define the NetGuardian for BAS, go to the Master menu > Files Maintenance menu > LAN-Based Remotes option. The Net Guardian Definition screen will appear. Fill in the fields with the appropriate information, and be sure to select BAC (Building Access Controller) in the Expansions Modules list box menu.

```

NetGuardian/NetDog_G2 Definition
Site Number      : 100
Description      : BACTL
Site Name        : Elevator_Site
Password         :
Device Type      : BACTL32
Base Proxy Port  :
Expansion Units  : 1
Expansion Modules: BAC

IP Address / Port : 1.2.3.4..... / 2001

Dedicated Port   : 53   Base Addr: 1   Exp Addr #1: N/A   Exp Addr #2: N/A
Dialout Port     : 0    Pri Dial Prefix :   Sec Dial Prefix :
Phone           :                               Test:
Polling Type     :                               Polling Interval :   <mins>
Scheduled Days ---> SUN:   MON:   TUE:   WED:   THU:   FRI:   SAT:
Scheduled Hours  :
Scheduled Minute :

IP Address of Remote <i.e. 192.168.63.14>

Up arrow=Previous Field, F9=Help, F10/Esc=First Field

```

Field	Description
Site Number	3-digit site number. This number is unique over the entire alarm network. This number is the address field for responders, derived alarms, and labeled controls.
Description	41 character description of the site.
Site Name	15 character site name. This will be stamped on every event from this BACTL.
Password	20 character password. (Only needed if T/MonXM will be managing the proxy ports.)
Device Type	Indicates that the device is a BACTL.
Base Proxy Port	Set to 3000 (default) or the same as the BACTL.
Expansion Units	Enter the number of NetGuardian expansion units you are using. (Only needed if T/MonXM will be managing the proxy ports.)
Expansion Modules	Select BAC.
IP Address / Port	Enter the IP address for the unit. This is the address that T/Mon will use to poll the BACTL. Also enter the UDP Port address of the BACTL (must match the BACTL).
Dedicated Port	If the BACTL reports on a dedicated or Ethernet line (DCP), enter the T/MonXM port number.
Base Address	The DCP address of the "BAC1" section of a BACTL32.

Exp. Addr. #1	The DCP address of the BACTL32 "BAC2" DCP address.
Exp. Addr. #2	N/A
Dialout Port	N/A
Phone	Enter the phone number to reach the remote.
Polling Type*	Select Periodic or Schedule from the default box. Periodic polling polls at the interval specified in minutes in the polling interval field. Schedule sets a defined day and time in the week to poll the unit. If periodic is selected, the cursor will skip to the Polling Interval field. If schedule is selected, the cursor will skip to the scheduled days field.
Polling Interval*	Periodic polling only. 0 to 9999 minutes. 0 = never. The cursor will skip out of edit mode after entering a value.
Scheduled Days*	Enter the whole number of each hour (24 hour clock) to place a polling call (0-23, where 0 = midnight). Example: 0, 8-16 polls at midnight and every hour from 8 AM to 4 PM.
Scheduled Minutes*	Enter the whole number of the offset from the hour each call is to be made. (0-59, where 0 = on the hour). Example: 30 polls at half past the hour.

This procedure is also located in **section M22 of your T/MonXM User Manual.**

8 Quick Start: Access Web Browser Interface



The Building Access Controller 32 features a built-in Web Browser Interface that allows you to manage your monitored doors. The web browser is accessible using most browsers.

NOTE: Max # of users allowed to simultaneously access the Building Access Controller 32 via the web is 4.

8.1 Logging on to the BACTL 32

1. To connect to the Building Access Controller 32 from your Web browser, you must know its IP address or domain name if it has been registered with your internal DNS. Enter it in the address bar of your Web browser. It may be helpful to bookmark the logon page to simplify access.
2. After connecting to the unit's IP address, enter your password and click Submit. **Note:** The factory default password is **dpstelecom**.
3. In the left frame there is **Monitor** menu button and an **Edit** menu button. Most of the software configuration will occur in the **Edit** menu. The following sections provide detailed information regarding these functions.



Hot Tip!

If the **Edit** menu does not appear in the left frame after logging on, it means that another station has already logged on as the primary user, or that you don't have the rights to modify parameters. The maximum number of users allowed to simultaneously access the Building Access Controller 32 via Web is four. The primary user is the only user with access to the editing features.

Exiting the Web interface without logging out prevents other users from accessing the Editing features, as well. Web sessions are tracked by IP Address and the session will time out after twelve minutes of inactivity.



Enter your password to enter the Web Browser Interface

9 Web Browser (Editing)

9.1 System

In the **Edit > System** menu, fill in the following fields with the appropriate information to begin configuring your Building Access Controller 32.

System		
Name	Building Access 32	
Location	Fresno, CA	
Contact		
Serial Number	0 (NOT SET)	
Elevator Settings		
ID	IP	Port
1	010.000.004.131	7000
2	010.000.004.130	7000
3	255.255.255.255	7000
4	255.255.255.255	7000
On-the-Floor Port	7000	
Global BAC Settings		
DCP Port	2001	UDP
In-Facility Broadcast	<input checked="" type="checkbox"/>	
In-Facility UDP Port	6000	
In-Facility Send Count (1-3)	1	
Normally Open Door Alarms	<input checked="" type="checkbox"/>	
Door Unlock Duration (1-30)	10	Seconds
In-Facility Time (1-120)	1	Minutes
Lights-On Time (1-120)	30	Minutes
COS Mode	<input type="checkbox"/>	

The Edit > System menu

Field	Description
Name	Name of this device, used for your reference.
Location	Location of this Building Access Controller 32, used for your reference.
Contact	Contact phone number for the person responsible for this Building Access Controller 32.
Serial Number	Assigned at the DPS Telecom factory for unique unit identification.
DCP Port	Enter the DCP Port for this Building Access Controller 32, then select between UDP/TCP.
In-Facility Broadcast	When checked, the "In-Facility Broadcast" function is active. This is an alternate mode of operation and is not commonly used. (see later section for description)
In-Facility UDP Port	The UDP port used to broadcast "In-Facility" notices to other BACTL 32 units. This port is also used to listen for incoming broadcasts. Default port is 6000.
In-Facility Send Count	The number of broadcasts (from 1 to 3) that will be executed for each "In-Facility" notice. Since broadcasts receive no response, sending more than one broadcast increases reliability. Broadcast retries occur within a few seconds of each other. Default send value is 1.
Normally Open Door Alarms	When checked, all door alarms attached to this Building Access Controller 32 will reverse their polarity from "normally closed" to "normally open".
Door Unlock Duration	The number of seconds (from 1 to 30) that a door will remain unlocked after a valid electronic entry (manual card swipe or keypad, or remote unlock from T/Mon).

In-Facility Time	The number of minutes (from 1 to 120) that a user will receive "In-Facility" status after successfully accessing one door in the facility. Each BACTL manages countdowns after receiving a broadcast.
Lights-On Time (1-120)	The amount of time the lights will remain turned on, once the relay is latched.
COS Mode	Turn COS Mode ON or OFF. Once an open door alarm goes off, COS Mode will automatically turn off the door alarm as soon as the door is closed. If COS Mode is OFF, the door alarm will not reset until the unit is restarted or the user latches the appropriate relay.

Elevator Settings	Description
ID	The Identification number (1-4) of each Building Access Controlled device.
IP	The IP address of the profile-receiving unit.
Port	The On-the-Floor Port of the receiving unit.
On-the-Floor Port	Listening port if BAC32 is controlling the elevator.

9.2 Edit BAC1 (for Doors 1-16)

Edit BAC1			
Configuration			
BAC Unit ID 1	<input type="text" value="132"/>		
Port Options	Click Here to Customize		
Entry Codes			
ID	Default	ID	Default
1	<input type="text"/>	9	<input type="text"/>
2	<input type="text"/>	10	<input type="text"/>
3	<input type="text"/>	11	<input type="text"/>
4	<input type="text"/>	12	<input type="text"/>
5	<input type="text"/>	13	<input type="text"/>
6	<input type="text"/>	14	<input type="text"/>
7	<input type="text"/>	15	<input type="text"/>
8	<input type="text"/>	16	<input type="text"/>

The Edit > BAC1 menu

Field	Description
BAC Unit ID	The DCP address for reporting with T/Mon. You must choose different DCP addresses for BAC1 and BAC2.
Default (Entry Codes)	These entry codes (one per door) will be used if codes have not yet been provisioned by T/Mon. The entry code is the proxy card number. This function is intended to simplify the turn-up process.

9.2.1 Customize Port Options

To customize the Port Options, click on "[Click Here to Customize.](#)"

Edit BAC1 Custom				
ID	Mode	IPA	BAP ID	Floor
1	Normal ▾	<input type="text" value="255.255.255.255"/>	<input type="text" value="0"/>	<input type="text" value="1"/>
2	Elevator ▾	<input type="text" value="111.222.333.444"/>	<input type="text" value="0"/>	<input type="text" value="1"/>
3	Floor Lights ▾	<input type="text" value="999.888.777.666"/>	<input type="text" value="0"/>	<input type="text" value="1"/>

The Edit > BAC1 > Port Options menu

Field	Description
ID	The Identification number.
Mode	Depending on the BAC function, select either Normal, Elevator, or Floor Lights.
IPA	Enter the IP Address of the RTU.
BAP ID	Enter the ID of the BAP. Note: The chosen BAP should be connected to the same RTU specified by the IPA.
Floor	Specify the Floor number.

9.3 Edit BAC2 (for Doors 17-32)

The "Edit BAC2" menu is identical to the "Edit BAC1" menu, except that it is used to edit Doors 17-32. Refer to the previous section for an explanation of the fields in this menu.

9.4 Logon

These settings affect the master password and should be provisioned by the unit's administrator.

Logon	
Master Password	
Minimum Length	<input type="text" value="5"/>
Password	<input type="password" value="••••••••••"/>
Confirm Password	<input type="password" value="••••••~"/>
Quiet Logon	<input type="checkbox"/>

The Edit > Logon menu

Field	Description
Minimum Length	Enter the minimum number of characters required for the device's master password.
Password	Enter your custom password. NOTE: Default password is "dpstelecom"
Confirm Password	Re-type your custom password.
Quiet Logon	No password prompt will appear when creating a Telnet session for accessing the unit.

9.5 Ethernet

Access the **Edit > Ethernet** menu allows you to define and configure your network settings.

1. Configure the Building Access Controller 32 ethernet port by clicking on the **Ethernet** link from the **Edit** menu.
2. Enter the appropriate information for your ethernet port in the corresponding fields.
3. Click **Submit Data** to save your configuration settings.

Ethernet	
NET	
Unit Address	<input type="text" value="126.010.230.139"/> (126.010.230.139)
Subnet Mask	<input type="text" value="255.255.192.000"/> (255.255.192.000)
Gateway	<input type="text" value="126.10.78.141"/> (000.000.000.000)
MAC Address	00.10.81.00.53.1D

The Edit > Ethernet menu

Field	Description
Unit Address	IP address of the Building Access Controller 32.
Subnet Mask	A road sign to the unit telling it whether your packets should stay on your local network or be forwarded somewhere else on a wide area network.
Gateway	An important parameter if you are on a network that is connected to a wide area network. It tell the unit which machine is the gateway out of your local network. Set to 255.255.255.255 if not using .
MAC Address	Hardware address of the Building Access Controller 32 (not editable, for reference only).

9.6 Filter IPA

CAUTION: Changing IPA Filter settings may make the BACTL 32 unit unreachable via LAN. Please take caution and only enable the IPA table after submitting and verifying your other Filter IPA settings.

The Filter IPA table allows you to increase the device's network security by allowing or blocking packets from specified IP addresses. It is primarily used for diagnostic purposes and should not be required unless to increase security.

Addresses which appear in the table will be processed by the Building Access Controller 32. Defined IP addresses associated with network cameras or the network time server are automatically processed and will not be filtered out by this feature. Broadcast packets of 255.255.255.255 and ARP requests for the Building Access Controller 32 IP address are also not filtered.

Filter IPA	
Enable IPA Table	<input type="checkbox"/>
Block these Addresses	<input type="checkbox"/> (Firewall Mode Enable/Disable)
IPA Table	
ID	Address
1	<input type="text" value="255.255.255.255"/> (255.255.255.255)
2	<input type="text" value="255.255.255.255"/> (255.255.255.255)
3	<input type="text" value="255.255.255.255"/> (255.255.255.255)
4	<input type="text" value="255.255.255.255"/> (255.255.255.255)
5	<input type="text" value="255.255.255.255"/> (255.255.255.255)
6	<input type="text" value="255.255.255.255"/> (255.255.255.255)
7	<input type="text" value="255.255.255.255"/> (255.255.255.255)
8	<input type="text" value="255.255.255.255"/> (255.255.255.255)
9	<input type="text" value="255.255.255.255"/> (255.255.255.255)
10	<input type="text" value="255.255.255.255"/> (255.255.255.255)
11	<input type="text" value="255.255.255.255"/> (255.255.255.255)
12	<input type="text" value="255.255.255.255"/> (255.255.255.255)

Submit Data

The Edit > Filter IPA menu

1. From the **Edit** menu select **Filter IPA**.
2. A warning prompt will appear. Click **OK** to continue, or **Exit** to cancel.



Filter IPA warning prompt

3. Once enabled only the IP addresses in the table will be allowed access to the Building Access Controller 32.
4. Select to **Enable IPA Table**.
5. Enter the IP address of the machine(s) you would like to give access to the Building Access Controller 32.
6. Click **Submit** to save the configuration settings.



Hot Tip!

WARNINGS

- Entering a zero in any of the octet fields will declare that part of the octet to be a wildcard.
- Does not work with networks that assign IP addresses. Use the wildcard field to open an entire subnet.

Two Modes:

Firewall: Block specific addresses

Filter table: only allow specific addresses

9.7 Ports

Use the following steps to change the craft port communication settings:

1. Navigate to the **Edit** menu > **Ports** screen.
2. You can set the baud rate for the craft port to 300, 1200, 2400, 9600, 19200, 38400, 57600, 115200. (Default Baud is 9600)
3. Under the **Wfmt** (word format) field, select the appropriate data bits, parity, and stop bits setting to match your terminal emulation software or device connected to the NetGuardian craft port. (Default designation is 8,N,1)
4. Click **Submit Data** to save the craft port settings.

Ports	
Craft	
Baud	9600 ▼
WFmt	8,N,1 ▼

Submit Data

Configure the front panel craft port parameters from the Edit > Ports menu

9.8 Date and Time

Date and Time	
Current Setting	
Date	04 / 22 / 2008
Day	Sunday <input type="button" value="v"/>
Time	09 : 44 : 50
Network Time Configuration	
Time Server IPA	255.255.255.255 (Disabled)
Time Server Port	123
Timezone	Pacific <input type="button" value="v"/>
Observe DST	<input checked="" type="checkbox"/>

The current date and time can be entered from the Date and Time screen or from an SNMP manager

The date is entered in the mm/dd/yyyy format and the time is entered in the hh:mm:ss format. The date and time will need resetting following a power failure or reboot unless your Building Access Controller 32 is equipped with the real-time clock option or network time is enabled.

Use the following steps to manually set the system's time and date:

1. From the **Edit** menu, select **Date and Time**, see Figure 2.31.
2. Enter the appropriate date, the day of the week, and time.
3. Click **Submit Data** to save the data and time settings.

Use the following steps to manually set the system's time and date:

1. From the **Edit** menu select **Date and Time**.
2. Click on the **Time Zone** drop-down menu and select the appropriate time zone.
3. Put a check next to **Observe DST** if you are in an area that observes daylight saving.
4. You may also change the server IP Address that the unit syncs with by entering a the appropriate IP address in the **Time Server IPA** field.
5. If you do not want your Building Access Controller 32 to sync with an NTP server, simply set the Time Server IPA to **255.255.255.255**.
Note: If Time Server IPA is set to 255.255.255.255, you will be able to manually adjust the date and time.
6. Click **Submit Data** to save the date and time settings.

9.9 NVRAM

Your Building Access Controller 32 comes equipped with Non Volatile RAM (NVRAM), which enables the retention of data in the event of power loss. This section allows you to write and initialize the NVRAM. **NOTE:** Some changes require a reboot of the unit to take effect.

1. From the **Edit** menu select **NVRAM**.
2. Select **Write** to cause the current data in RAM to be written to NVRAM and then verified.
3. Select **Initialize** to reload factory defaults into NVRAM. **DO NOT SELECT THIS OPTION UNLESS YOU WANT TO RE-ENTER ALL OF YOUR CONFIGURATION INFORMATION AGAIN.**
4. Select **Purge BAC** to delete the Building Access profile database downloaded from T/Mon XM.

NVRam	
Action	Description
Write	Writes current values to NVRam.
Initialize	Sets NVRam to default values.
Purge BAC	Deletes the BAC Profile Database(s).

Action

NVRAM enables the NetGuardian to retain data even through a power loss

9.10 Reboot

Click on the **Reboot** link from the **Edit** menu to reboot the BACTL 32 after writing all changes to NVRAM. Any changes to port settings require a reboot to take effect. The window footer will display the text **Reboot Needed** if a reboot is necessary to initiate changes.



9.11 Web Browser (Monitoring)

9.11.1 Mon BAC1

The **Monitor > Mon BAC1** menu gives you an at-a-glance view on the current state of half of your doors (1-16). Select "Monitor > Mon BAC2" to view the other half (17-32).

The **Door** column will read Open or Closed. The **In-Facility** column will display the minutes remaining (if any) of door alarm suppression. See the "In-Facility Broadcast" section of this manual for details on this function.

To unlock a door, click on the **Relay** drop down menu and select "Mom" for Momentary. The door will remain unlocked for the "Door Unlock Duration" defined in the "Edit >> System" menu.

Mon BAC1			
ID	Door	In-Facility	Relay
1	Elevator	-	Released
2	Floor Lights	-	Released
3	Elevator	-	Released
4	Floor Lights	-	Released
5	Disabled	-	Mom ▾
6	Disabled	-	Mom ▾
7	Disabled	-	Mom ▾
8	Disabled	-	Rls ▾
9	Disabled	-	Rls ▾
10	Disabled	-	Rls ▾
11	Disabled	-	Rls ▾
12	Disabled	-	Rls ▾
13	Disabled	-	Rls ▾
14	Disabled	-	Rls ▾
15	Disabled	-	Rls ▾
16	Disabled	-	Rls ▾

Submit Data

The Monitor > Mon BAC1 menu

9.11.2 Mon BAC2

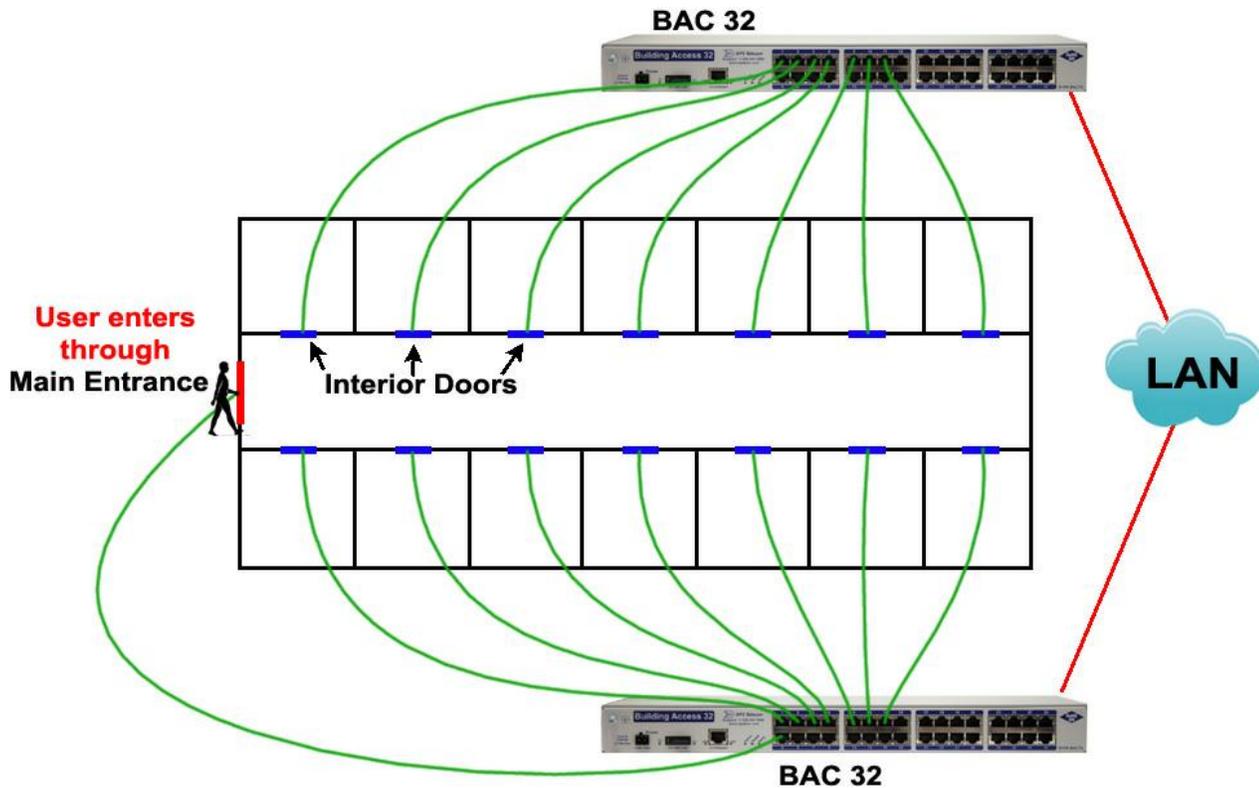
The "Mon BAC2" menu is identical to the "Mon BAC1" menu, except that it is used to monitor Doors 17-32. Refer to the previous section for an explanation of the fields in this menu.

10 In-Facility Broadcast

This is an **alternate mode** of Building Access Controller 32 operation. In most applications, you will have electronic access control (keypad or proximity card reader) installed on every door. However, in certain high-density applications where it is not feasible to have electronic access control on all doors, you might only install door sensors on each door. In these scenarios, "In-Facility Broadcast" is a way to achieve a reasonable level of security based on tracking who is in a facility at a specific time.

The **"In-Facility Broadcast" function is used to alert you to interior door entries that are probably unauthorized.** This is accomplished by filtering alarms for specific doors when an authorized user is known to be "in-facility" / "in the building" / "on-site".

For example, if a person enters a facility and is authorized to enter 4 specific interior rooms, entries into any of those 4 rooms should not trigger an alarm while the user is on-site. For any other interior room entries, however, you need to receive an immediate alarm.



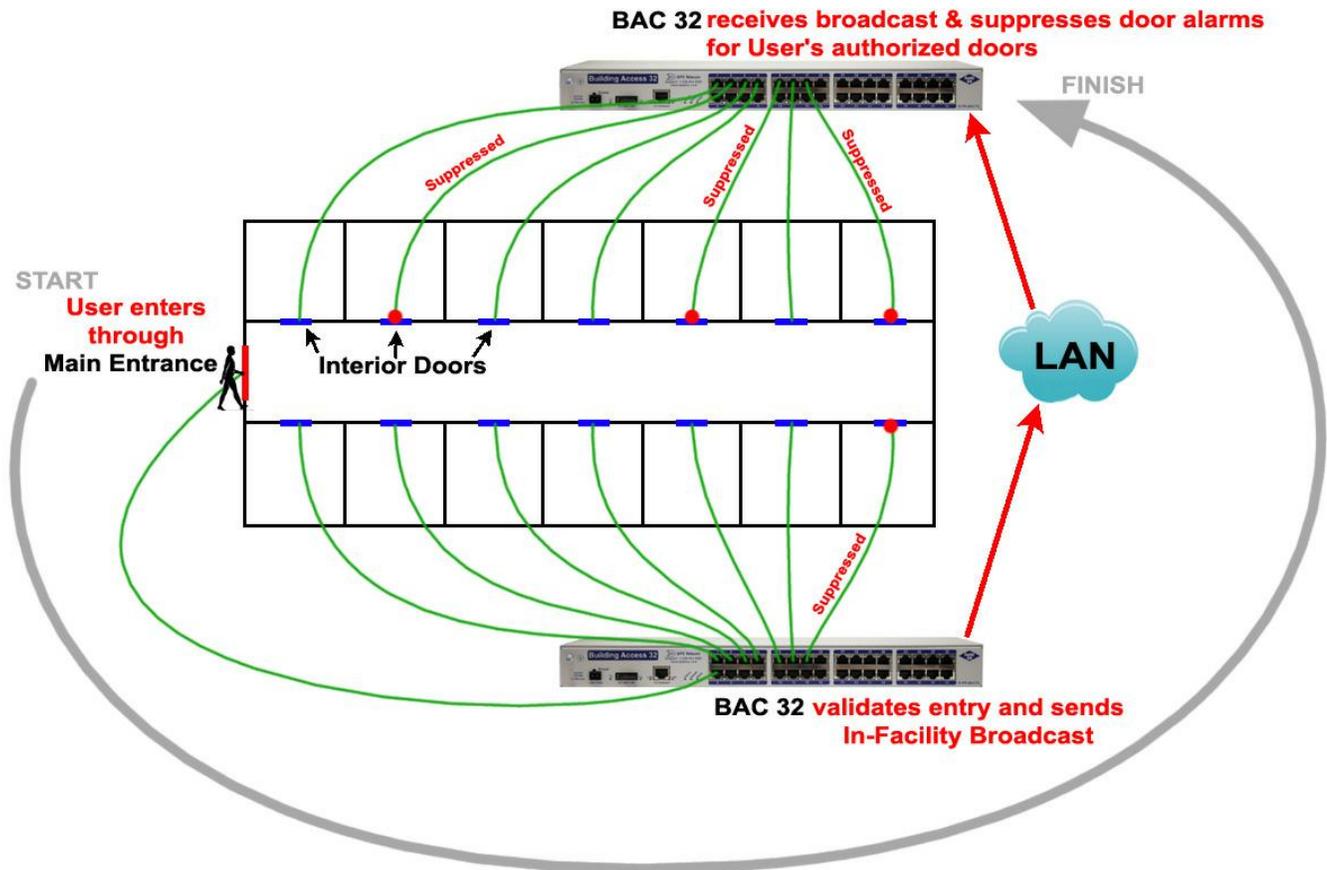
What happens when In-Facility Broadcast is NOT enabled:

Once that user has swiped a valid keycard or entered a valid keycode at the main entrance, it is expected that he will also access some of the 4 interior doors for which he is authorized as part of this visit. After all, very few people will enter through the main entrance just to stand around in the hallway.

If the user opens one of those 4 authorized interior doors using a traditional (non-electronic) key, however, the BACTL 32 will report a door alarm, because the door was opened without electronic authentication. This door alarm would not require action. Operators are likely to become distracted by these unimportant "nuisance" door alarms.

What happens when In-Facility Broadcast IS enabled:

"In-Facility Broadcast" is capable of filtering the "nuisance" door alarms introduced above. Let's walk through the same example again, this time with In-Facility Broadcast enabled on both BACTL 32 units.



The user begins again by making a valid electronic entry (keycard/keycode) through the main entrance door. A **BACTL 32 with In-Facility Broadcast enabled would send a UDP broadcast via LAN to all other BACTL 32 units on the same subnet, including itself.** In this example, the broadcast will be received by both of the BACTL 32 units in the building.

The UDP broadcast essentially contains the following message: "User XYZ has entered the facility. If User XYZ is authorized to access any of the doors you control, suppress all door alarms from those authorized doors for the next 60 minutes." (Where "60 minutes" is configurable)

The door used for access (the main entrance in this example) **is not affected** by In-Facility Broadcast, so its door alarms will continue to be reported. This feature maintains reasonable levels of security. Suppressing main

entrance door alarms would obviously create a large security threat.

The number of minutes that door alarms will be suppressed after a user enters - plus several other variables - may be changed in the "**Edit >> System**" Menu.

CAUTION: While In-Facility Broadcast can be a useful tool, it does create certain security exposures. Any time you generate alarms based on general assumptions, such as which users have entered a building in the last 60 minutes, it is possible for unauthorized access to occur without detection. When an authorized user enters a facility, In-Facility Broadcast will suppress certain door alarms for a predefined period. There is no guarantee, however, that all entries during the suppression period will be made by authorized users. By using In-Facility Broadcast, you're strategically ignoring some door alarms to improve your reaction to other alarms.

In-Facility Broadcast details:

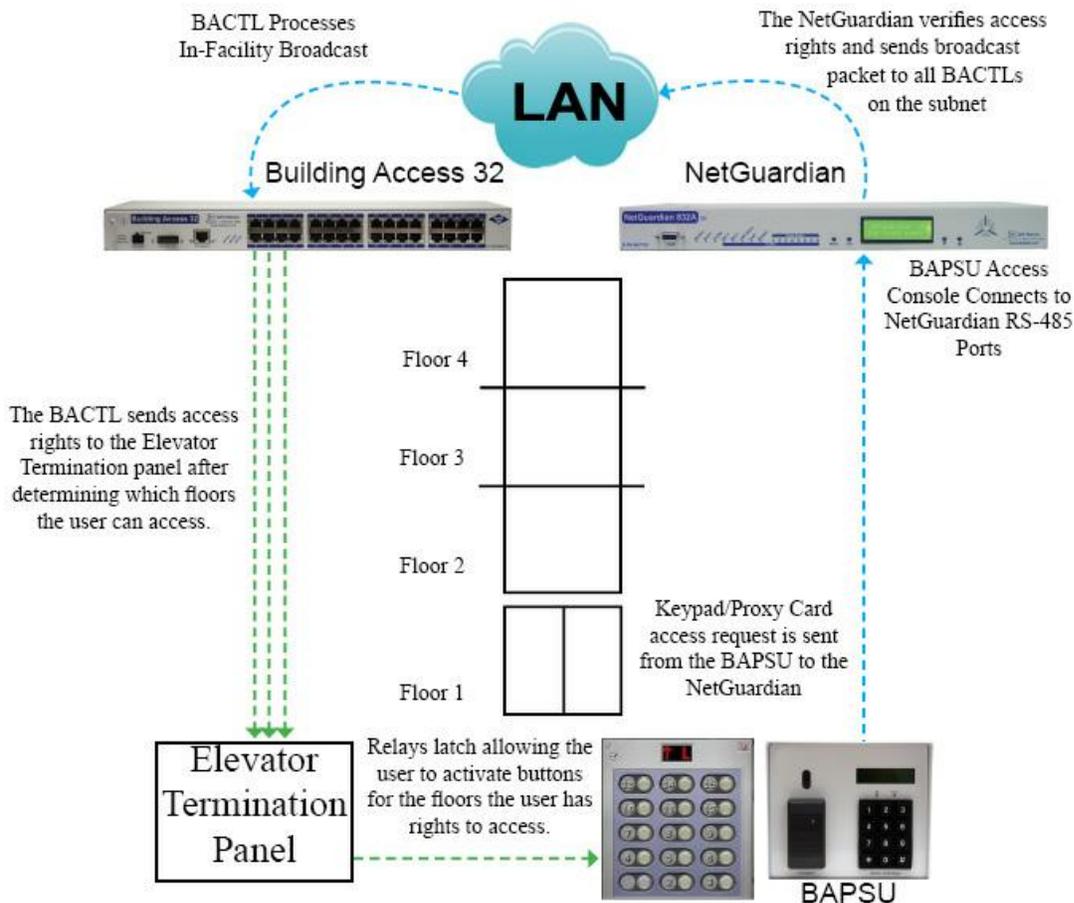
- Only BACTL 32 units on the **same subnet** will receive UDP In-Facility broadcasts from other BACTL 32 units.
- Only BACTL 32 units with the **same UDP Port** setting (in Edit >> System) will receive UDP In-Facility broadcasts.
- The door that is entered and triggers an In-Facility Broadcast will not have its door alarms suppressed.
- Status of In-Facility door alarm suppression is displayed for each door in the BACTL 32 Web Interface (Monitor >> Mon BAC 1/2).

10.1 Elevator Mode

Elevator mode is an in-facility addition that allows you to restrict floor-level access using your Building Access 32's relays to enable the individual buttons on an elevator control panel. (Each individual button on the elevator panel will be wired to a BAC 32 as a control relay.)

In elevator mode, a person accesses an elevator using a proxy card or the keypad attached to the BAPSU Access Console. Their credentials are passed from the access controller to a NetGuardian which verifies the credentials and sends a broadcast packet to all Building Access 32 controllers on the same subnet. The Building Access 32s then process the In-Facility Broadcast based on the user's credentials (as described in the previous section). For ports with elevator mode enabled that the user has rights to access, the relays will latch momentarily (5 seconds by default). The person in the elevator will only be able to activate buttons for the floors their credentials allow them to access.

Note: Elevator mode uses the control relay only. Door alarm and proxy reader support is suppressed for ports in elevator mode.



An overview of Elevator Mode

Configuring Elevator Mode:

You'll configure elevator mode through both the Web Interface for the BACTL and T/Mon. There are no references outside of T/Mon for which floor is wired to which port on the BAC, so make note of which floors are

wired to which ports on the BAC. While you may wire your floors to any ports on the BAC and in any order, DPS Telecom recommends wiring your floors in order, contiguously to prevent confusion in later configuration steps.

1. Configure Ports for Elevator Mode in the BACTL Interface

Enter the BACTL's web interface by typing the IP address of the BAC your elevator is connected to in an open internet browser window

- Click **Edit > Edit BAC#** (where # = 1 or 2, depending on whether you intend to edit ports 1-16 or 17-32)
- Click **Click Here to Customize** under Port Options. Fill in the appropriate fields.

Edit BAC1 Custom				
ID	Elevator	IPA	BAP ID	Floor
1	<input checked="" type="checkbox"/>	10.0.25.16	1	1
2	<input checked="" type="checkbox"/>	10.0.25.32	1	2
3	<input checked="" type="checkbox"/>	10.0.25.51	1	3
4	<input checked="" type="checkbox"/>	10.0.25.13	1	4
5	<input type="checkbox"/>	255.255.255.255	0	1
6	<input type="checkbox"/>	255.255.255.255	0	1
7	<input type="checkbox"/>	255.255.255.255	0	1
8	<input type="checkbox"/>	255.255.255.255	0	1
9	<input type="checkbox"/>	255.255.255.255	0	1
10	<input type="checkbox"/>	255.255.255.255	0	1
11	<input type="checkbox"/>	255.255.255.255	0	1
12	<input type="checkbox"/>	255.255.255.255	0	1
13	<input type="checkbox"/>	255.255.255.255	0	1
14	<input type="checkbox"/>	255.255.255.255	0	1
15	<input type="checkbox"/>	255.255.255.255	0	1
16	<input type="checkbox"/>	255.255.255.255	0	1

The Edit BAC1 Custom screen in the BACTL web interface

ID:	The ID of the port you're editing, 1-16 for BAC1 or 17-32 for BAC2. (Not an editable field)
Elevator:	Toggle this checkbox to enable Elevator Mode.
IPA:	The IP Address of the NetGuardian remote operating the BAPSU (proxy card/keypad & access controller) connected to the Elevator
BAP ID:	The ID of the BAPSU in the elevator, connected to the NetGuardian at the IPA specified in the previous field. The ID of the Access Controller is configured via the TTY interface for each individual BAPSU unit. For more information, see the BAPSU manual.

Note: Ports with Elevator Mode enabled will only process In-Facility Broadcasts that are received from a configured IPA and BAP ID.

Normal Mode		
ID	IP	Port
1	010.000.001.193	7000
2	255.255.255.255	7000
3	255.255.255.255	7000
4	255.255.255.255	7000
Elevator Mode		
On-the-Floor Port		7000

Options for configuring the BACTL to be in Normal or Elevator mode

ID:	The ID of the BACTL you're configuring.
IP:	For each BACTL in normal mode, enter the IP of the BACTL unit at the elevator that's configured in elevator mode.
Port:	Port number for the BACTL located at the elevator.

2. (Optional) Setting the Door Unlock Duration

The Door Unlock Duration determines how long a door (in this case, a floor) will remain accessible following the entry of a valid pass-code. To configure the door unlock duration:

- from the BACTL web interface, navigate to **Edit>System**
- In the field marked **Door Unlock Duration (1-30)**, set the Door Unlock Duration between 1 and 30 seconds.

System	
Name	Building Access 32
Location	
Contact	
Serial Number	0 (NOT SET)
Global BAC Settings	
DCP Port	2001 UDP
In-Facility Broadcast	<input checked="" type="checkbox"/>
In-Facility UDP Port	6000
In-Facility Send Count (1-3)	1
Normally Open Door Alarms	<input type="checkbox"/>
Door Unlock Duration (1-30)	5 Seconds
In-Facility Time (1-120)	60 Minutes

Submit Data

The BACTL System Tab

3. Configure Floors as Sites in T/Mon

Use existing import mechanics to issue elevator floors on your BACTL site/zone IDs.

10.2 Exit Mode

The In-Facility Broadcast **Exit Mode** allows you to re-enable door violations regardless of the amount of time remaining on an in-facility broadcast upon exiting a facility, preventing users from taking advantage of an In-Facility Broadcast to gain access to otherwise unauthorized areas in the absence of the authorized user (who entered and exited within the 60-minute broadcast).

ECUs placed at facility exit points with the **Exit Mode** option enabled (from the NetGuardian) will end an in-facility broadcast upon a successful access attempt (via proxy card).

Note: ECUs for which **Exit Mode** is enabled **cannot process entry requests**. **Direction** must be disabled for Exit Mode to function.

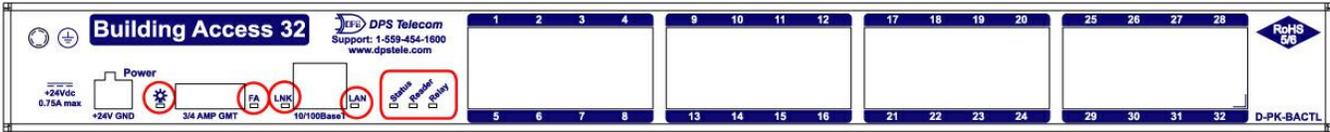
To enable Exit Mode:

- Access the web interface for the NetGuardian to which the "exit" ECUs are attached.
- Go to **Edit > BAC**
- Check the **Exit Mode** box for ECU units (ID) that will become In-Facility Exit Points.

Entry Code					
ID	Default	Exit Mode	ID	Default	Exit Mode
1	<input type="text"/>	<input checked="" type="checkbox"/>	9	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input checked="" type="checkbox"/>	10	<input type="text"/>	<input type="checkbox"/>

Configure Exit Mode from your NetGuardian

11 Front and Back Panel LEDs



LED	Status	Description
PWR	Solid Green	Power supply OK
	Off	No voltage or leads reversed
FA	Solid Red	Fuse failure
LNK	Solid Green	Ethernet link detected
LAN	Blinking Green	Transmit traffic over LAN
Status	Flashing Green	Normal
	Flashing Red	NVRAM error detected
Reader	Flashing Green	Proxy card passcode verified (and accepted)
	Flashing Red	Proxy card passcode detected (not verified yet)
Relay	Solid Green	One or more relays are latched
	Off	No relays are latched

Front Panel LED Descriptions



LED	Status	Description
Craft	Flashing Green	Data transmit over craft port
	Flashing Red	Data receive over craft port

Back Panel LED Descriptions

12 Upgrading Firmware via COM Port

1. Login to MyDPS from the DPS website (www.dpstele.com/mydps). Click on Firmware/Software Downloads and download/save the Building Access Controller 32 firmware update.
2. Connect to the back-panel craft port of your Building Access Controller 32 using a straight-through DB9 cable.
3. Make sure you have ComLoader installed on your PC. If not, download the software from MyDPS under Firmware/Software Downloads and complete the installation wizard.
4. Open ComLoader and click on the browse button at the Task File field. Browse for the firmware update you downloaded during Step 1 and click OK.
5. Click on the "Com Port Settings" button and make sure your settings are as follows, then click OK.
 - Com Port: (set to the port you have plugged in to your PC)
 - Baud Rate: 115200
 - Stop Bits: 1
 - Data bits: 8
 - Parity: None
6. Reboot your Building Access Controller 32, then immediately click the "Start" button on ComLoader. It is important that the unit is rebooting when you click "Start".

When you see the “Download Successful” message, the upgrade is complete.

13 Technical Support

DPS Telecom products are backed by our courteous, friendly Technical Support representatives, who will give you the best in fast and accurate customer service. To help us help you better, please take the following steps before calling Technical Support:

1. Check the DPS Telecom website.

You will find answers to many common questions on the DPS Telecom website, at <http://www.dpstele.com/support/>. Look here first for a fast solution to your problem.

2. Prepare relevant information.

Having important information about your DPS Telecom product in hand when you call will greatly reduce the time it takes to answer your questions. If you do not have all of the information when you call, our Technical Support representatives can assist you in gathering it. Please write the information down for easy access. Please have your user manual and hardware serial number ready.

3. Have access to troubled equipment.

Please be at or near your equipment when you call DPS Telecom Technical Support. This will help us solve your problem more efficiently.

4. Call during Customer Support hours.

Customer support hours are Monday through Friday, from 7 A.M. to 6 P.M., Pacific time. The DPS Telecom Technical Support phone number is **(559) 454-1600**.

Emergency Assistance: *Emergency assistance is available 24 hours a day, 7 days a week. For emergency assistance after hours, allow the phone to ring until it is answered with a paging message. You will be asked to enter your phone number. An on-call technical support representative will return your call as soon as possible.*

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White Paper: 5 Steps to Intelligent SNMP-Legacy Integration
Learn how to make your current alarm monitoring equipment compatible with any SNMP manager — without losing time, money or functionality. [Download White Paper](#)

Turbocharge Your NetGuardian With SNMP v2c
The new NetGuardian 4.0 firmware adds SNMP v2c support, robust message delivery via SNMP INFORM command, customizable alarm severity levels and alarm point grouping, plus a whole lot more. Get the full details on everything that's new and how you can upgrade to NetGuardian 4.0. [Read Full Story](#)

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Network Alarm Monitoring Fundamentals
Alarm Monitoring — Where Do You Start?

You've just been put in charge of purchasing, selecting or recommending a new network alarm system for your company. Where do you start? What alarm equipment do you need? What monitoring features are essential, and which can you live without? How can you make sure your network is fully protected, without spending too much on equipment you won't use?

This White Paper is a quick guide to how you can answer these questions for yourself. This paper will NOT tell you, "Just buy this system and everything will be fine." Every network is different. A one-size fits-all system won't provide the specific coverage you need and may cost more money than you really need to spend.

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