# **IS2000**

Administrative Operator's Guide

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**Figure 1 - System Navigation** 

All IS2000 modules display the following in the top third of the screen:

- Module Toolbar (top row) Displays the IS2000 modules, from Access to Help. Allows for easy • navigation between modules. The v indicates the presence of a drop-down menu.
- **Command Toolbar** (second row) Displays module dependent commands. For example, the • Hardware Manager consists of the commands shown.
- Information box (top right) Displays the operator, computer name, date and time, as well as the • driver type. The information box also displays a flashing message "X Alarms Pending" as alarms occur. A "logout" key is present in the bottom right of the information box.

Several Mouse Cursor Icons appear when operating the software:

### ß

The Drag Object icon appears when the left mouse button is held down over a selected object. Moving the mouse while holding down the left mouse button and releasing the mouse button over the desired destination is termed "Drag 'n' Drop".

The Hourglass icon appears when the system is busy processing data to be displayed or while loading a form.

The Popup Menu icon is displayed when the cursor is placed over an area of the screen that contains additional commands. Right click to call up the popup menu for additional commands.

The Moving Hand icon will appear when placed over an area of the screen that can be moved by holding down the left mouse button, and moving the mouse to the desired location. This is typically used to navigate a floor plan in the Graphic Maps module.

#### վհղ

The Pointing Hand icon will appear when the cursor is placed over a hyperlink text. A left click over the hyperlink will display additional information relating to the link.

### Logging Off

To log off from the IS2000 system:

- 8 1.
- Click on \_\_\_\_\_\_ at the top right corner of the Information Box, to log out from the IS2000. To completely shutdown the IS2000, click on X (typical Windows Close) at the top right 2. corner of any of the module windows.

### **Event Manager**

The default start-up module for IS2000 is the Event Manager.



Figure 2 - Event Manager

We will begin the IS2000 configuration with the Hardware Manager. Go to Hardware Manager.

### HARDWARE MANAGER

The Hardware Manager contains three basic windows: the Hardware Tree, Hardware Properties and the Status Screen.

📑 🖬 🖡	NO.	3	127	-	2	Operator: ADMIN Computer: DMRON-PC	52000	Date: May 06, 2014 Time: 14:20:31
Accesi Eventsi Triggers Or	aphics Hardware		Settings	LEADers	HAD		Drivers	
a 🗉 e 🖬 🚔 🖴	<b>7</b> H	ARDW	/ARE M	ANAGE	R	ACP		
	di Device Find		1 married		Contra	der 1.6 Status Screep	115	ONLINE
WEB Service			100 C 100 C 100 C	ate: 10:20:33		y 06, 2014	Firmware: Model:	4.1.9 In830260
ACP: Access Control Driver						y Inputs and Outputs		
1.0: nBIO260 Controler (10:	05:35)		T		-			
2: Generic Video Driver				Output 1	Output	2		
			Sec	Door 1	£	1	Doo	a
				8	21		8	3
			Ciosed	Locked	Card Only	Closed	Locked	Card Only
			Loaded 17	% of 30,000 G	ards			

Figure 3 - Hardware Manager

### Maneuvering the Hardware Tree

The following section describes the components of the Hardware Tree and Hardware setup/configuration. We begin with some of the basic components of the Hardware Manager:

- Unlocking the Module
- Viewing the Hardware Tree
- Viewing Properties

#### **Unlocking the Module**

Unlock the Module by clicking on the Command Toolbar's icon. This operation is required in order to make any database changes.

If you attempt to make database changes while the module is locked, the application will remind you by displaying a message in the Information Box.

### Viewing the Hardware Tree

The Hardware Tree is located in the middle left of the IS2000 Hardware Manager screen. The access control driver is the software interface between the GUI (**IS2000**), the database, and the field hardware. Any updates which affect the field hardware are sent by the driver to the field hardware. These field events are received by the driver and passed on to the GUI. The driver, hardware, and associated devices are displayed in a hierarchical tree and are assigned virtual addresses:

1: Driver 1.0: Controller 1.0.0: Sub-Controller 1.0.0.I1 (Input 1) - or - 1.0.0.O1 (Output 1) - or - 1.0.0.R1 (Reader 1)

Note: Devices are designated with a letter and a number. The letter designates whether the device is an input (I), output (O), or a reader (R). The number designates the input, output, or reader number.

A (+) or (-) is present to the left of each component. These are used to view the assigned "sub-level" hardware. Click on the (+) to expand the hardware tree or click on the (-) to collapse the hardware tree.

### **Viewing Properties**

The Properties window is located in the bottom left corner of the IS2000 Hardware Manager screen. Depending upon which item is selected in the Hardware Tree: Driver, controller, Sub-controller, or other devices, the Properties window changes to reflect the properties for the respective selection. You can click on the field to the right of the property name to modify, edit or enter parameters.

### Establishing Communication with the Hardware

#### **Configuring the Access Control Driver for Communication**

Before we can communicate with the field hardware, we must first add the "Access Control Driver".

	_		1.000		1	-	1	\$2000	0
and the second se	nopera Drap	tika Hardward	Vides	Settings	inites	- C	Operator: ADMIN Computer: MRON-PC		abe: May 06, 2014 ime: 14:30:49
							1 m m m m m m m m m m m m m m m m m m m	Drivers	
." = c =		<ul> <li>Device Find</li> </ul>		MARE M	IANAGE	R			
WEB Service	-	Add Driver							
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w.		1							
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Properties	192.168.0.1								
Properties IP Address	192.168.0.1	4							
Properties IP Address Webste Port	80								
Properties IP Address									
Properties IP Address Website Port Website Description	80								
Properties IP Address Webste Port Webste Description Service UserName	80								
Properties IP Address Webste Port Webste Description Service Password	80 IS2000 Web	iste							
Properties IP Address Website Port Website Description Service UserName Service Paisword Auto Start Web Server	80 IS2000 Web								

Figure 4 - Adding a Driver

- 1. Right-mouse click on the window shown in the figure above.
- 2. Select "Add Driver" from the Edit menu.

	Driver	
Compu IMRON-		
Driver	Access Control Drivers	
	Aarm System Drivers	
	S DVR,NVR Video Drivers	
. 6	Fire Panel Driver	
	HVAC Driver	
1	Telecommunications Driver	
2	Universal L/O Driver	
14	Video Hatrix Switchers	
-	-	

**Figure 5 - New Driver** 

3. A "**New Driver**" window appears. This window contains the computer name and the Driver Types, which are displayed in different categories. The computer name is automatically entered and will match the name in the information box. Select the correct Driver Type. For this example, we have selected "**ACP Access Control**" under the Access Control Drivers.

New Driver	×
Computer:	
MRON-PC	
Driver Type:	
Access Control Drivers	
ACP Access Control	
AXIS Access Control	
- O EPC/SCP Mercury Access Control	E
VertX,Edge HID Access Control	
OWL Onity Access Control	1
- O APC Legacy Mercury Access Control	
Alarm System Drivers	
DVR/MVR Video Drivers	
Line Danal Driver	*

#### Figure 6 - New Driver



4. Click on

. The newly added driver along with the associated driver properties will now be

WEB Service	al Driver	
Properties		
Computer_Name	IMRON-PC	*
Driver_Type	ACP: Access Control Driver	
Description	ACP: Access Control Driver	
Service UserName		Е
Service Password		
Start/Stop when App Opens/Cl	Intel In	
Start/Stop when App Opens/Cl Windows Services Manager	<ul> <li>✓ True</li> <li>(Click here for more options) </li> </ul>	

#### Figure 7 - Driver and Associated Properties

### **Running the Driver**

- 1. Start the driver. Right click on the ACP: Access Control Driver. Select "Start Driver" under the Driver Commands drop down menu to start the access control driver.
- 2. When the driver is running:
  - a. The Information Box will display the driver type next under Drivers. Note the ACP driver in the information box.
  - The "Driver 1 Status Screen" now appears to the right along with a green b. "RUNNING" box and the technical details for the driver.

										ci (8) - X
	-	and the second second	-	-	1000	-	-	152000	10	۵.
Access Cverds Trig		Hardware	Video	Second Second	Utilen .	(2) Help	Operator:Al Computer:1M			May 06, 2014 14:38:29
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Computer_Name Driver_Type Description	and the second se									
Computer_Name Driver_Type Description Service UserName	ACP: Access Contr									
Computer_Name Driver_Type Description Service UserName Service Password	ACP: Access Contr ACP: Access Contr									
Computer_Name Driver_Type Description Service UserName Service Password Start/Stop when App Opens/CL	ACP: Access Contr ACP: Access Contr IV: True	ol Driver								
Computer_Name Driver_Type Description Service UserName Service Password	ACP: Access Contr ACP: Access Contr	ol Driver								

Figure 8 - Running the Driver

### Adding a Controller

Once the Access Control Driver is running, a controller can be added.

1. To add a controller, right mouse click on the indicated window. Select "Add Controller" under the Edit drop down menu.

-			-			_	-	152000	10
Contraction of the local division of the loc			Video	FUR Settings	Utites	2 Help	Operator: ADMIN Computer: IMRON-PO		Date: May 06, 2014 Time: 14:39:24
								Drivers	
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		-	CH12	Hanning R	1011101-101	302			
	dù Devic	ce Find	0.1			stand on the second second second	nver 1 Status Screen.		RUNNING
WEB Service	oi Driver			Time D	Date: 14:39:	23 May 06, 2	557 V - 4709	Wer Version: GMT Offset:	10.000
-	🖉 Edit	Q AN	Driver						
8	Driver Commands	Add	Controller						
	Group Convenands	Dele	nte Driver	T					
Properties									
Computer_Name	IMRON-PC	_							
Driver_Type	ACP: Access Control Dri	wer -							
Description	ACP: Access Control Dri	iver							
Service UserName				1					
Service Password									
Start/Stop when App Opens/Cl	. 🕅 True		-						
Windows Services Manager	(Click here for more opti	tions) 🗄							
Time_Schedule									

**Figure 9 - Adding a Controller** 

- 2. 'Add Controller' window appears.
- 3. If doing a Manual Setup, then choose the Controller Type, Controller Address and Description. If doing an Auto Setup, then the driver will auto scan the network on the LAN and populate a list of the controllers that it found. Select the appropriate controller, based on the MAC ID and IP

Address. Click on 📉

Driver Address: 1	
and the second	
Controller Type: ACP-300 Controller	•
Controller Address: 0	•
Controller Description: (ACP-300 Controller	
Controller Group: 1: Controler Group 1	

Figure 10 - New Controller Window

### **Controller Status**

The controller status is displayed on the Controller Status Screen.

Refer to the "Controller 1.0 Status Screen" in the figure below.

C 152000 Version 9.3.98	The second		-				100	COD X
		-		1.00	-	15	2000	0
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<ul> <li>I: ACP: Access Con</li> </ul>	tool Driver		1		Accella	ry Lopots and Outputs		
- 1.0: ACP-200	Controller (10:05:35)		1.1		-			
- 1.0.0: Au				Output 1	Outpu			
- 1.0.1: Do	015			Door 1			_Delot 7	
				8	2		8	3
Properties			Closed	Locked	Card Only	Closed	Lucked	Card Only
(Card Formats)	(Click here for more options)	14	-				and the second second	
(Communication Settings)	(Click here for more options)							
InterLock	No InterLocking							
Anti-Passback	(Click here for more options)	10						
Function	Normal Access Control							
Daylight_Saving	US Daylight Saving							
GMT_Offset	-8							
Report Aux Input	False		Loaded 1	76 of 30,000 C	ards			

**Figure 11 - Controller Status** 

If the Access Control Driver is communicating with the controller (ACP), a green "ONLINE" status will appear on the top right corner of the Controller Status Screen. Also, the Firmware and Model information is updated and appears below the ONLINE status.

- 1. If the controller does NOT come online, re-check the controller property configuration.
- 2. If you feel the property configuration is correct, check the hardware connections.

### **Resetting the Controller**

Resetting the controller erases the current database in the controller. A Reset can now be executed since a working database has not been created and downloaded to the controller. Also initiating a Reset, at this point, will erase the factory test database.

Note: In the future, use this command only when directed by technical support.

Access       Device       Troggers       Origines       Hardware       Value       Setting       Hildees       Hale       Comporter: MRON-PC       Trac: 14:50:44         Image: Comporter: MRON-PC       Trac: 14:50:44       Image: Comporter: MRON-PC       Trac: 14:50:44       Image: Comporter: MRON-PC       Trac: 14:50:44         Image: Comporter: MRON-PC       Image: Comporter: MRON-PC       Trac: 14:50:44       Image: Comporter: MRON-PC       Trac: 14:50:44         Image: Comporter: MRON-PC       Image: Comporter: MRON-PC       Image: Comporter: MRON-PC       Trac: 14:50:44         Image: Comporter: MRON-PC       Image: Comporter: MRON-PC       Image: Comporter: MRON-PC       Trac: 14:50:44         Image: Comporter: MRON-PC       Image: Comporter: MRON-PC       Image: Comporter: MRON-PC       Image: Comporter: MRON-PC       Trac: 14:50:44         Image: Comporter: MRON-PC	Access       Funds       Tragers       Carping       Hardwares       Voteo       Setting       Utables       Hule       Computer:2NRON PC       Time: 14:50:44         Image: Setting       Image: Set Ima	100 C	10 10	- 1 C	-		-	1400			\$2000	0
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WEB Service       Time Date: 02:50:44 PM Tue May 06, 2014       Firmware: 4.1.9         WEB Service       It ACP: Access Control Driver       Model: ACP-200         It ACP: Access Control Driver       Film 0:00:5:35       Model: ACP-200         It I.0.: ACP-200 Controller Controller Commands       Film 0:00:5:35       Model: ACP-200         It I.0.: ACP-200 Controller Commands       Film 0:00:5:35       Model: ACP-200         It I.0.: ACP-200 Controller Commands       Set Date and Time       Output 2         It I.0.: ACP-200 Controller Commands       Set Date and Time       Doug 2         It I.0.: Course of Controller Commands       Set Date and Time       Doug 2         It I.0.: Course of Controller Commands       Set Date and Time       Doug 2         It I.0.: Course of Controller Commands       Set Date and Time       Doug 2         It I.0.: Course of Controller Commands       Set Date and Time       Doug 2         It Course of Manager       Course of Firmware       Doug 2       It Course 0         It Course of Firmware Course of Course of Firmware Course of Course of Course of Course of Firmware       Doug 2       It Course 0       It Course 0         Iteration Settings)       (Clock Tere for more options) (Clock Alere for more options)	WEB Service       Time Date: 02:50:44 PM Tue May 06, 2014       Finance: 4.1.9         WEB Service       Serial#: 10:05:35       Model: ACP-200         I: ACP: Access Control Driver       Access Control or Driver       Access Control or Driver         I: 0.0: ACP-200 Controler (J0:05:35)       Image: Control or Driver       Access Control or Driver         I: 0.0: ACP-200 Controler (J0:05:35)       Image: Control or Driver       Access Control or Driver         I: 0.0: ACP-200 Controler (Commands)       Image: Control or Commands       Image: Control or Driver         I: 0.1: Doors       Image: Control or Commands       Image: Control or Control o	1 🐨 🗠 📼		2 1	HAR	DW/	RE M	ANAGE	R	ACP		
WEB Service       Serial#: 10:05:35       Model: ACP-200         I: ACP: Access Control Driver       Auxiliary Inputs and Outputs         I: 0:: ACP-200 Controler (10:06:155)       Auxiliary Inputs and Outputs         I: 0:: ACP-200 Controler (10:06:155)       Image: Control of the cont	WEB Service       Serial#: 10:05:35       Model: ACP-200         I ACP: Access Control Driver       AutoZavry Inputs and Outputs         I I.0:: ACP-200 Controler Alamis: 350       Image: Control of Controler Commands       Image: Control of Controler Commands         I I.0:: ACP-200 Controler Alamis: 350       Image: Control of Controler Commands       Image: Control of Controler Commands       Image: Control of Controler Commands         I I.0:: ACP-200 Controler Commands       Image: Control of Controler Commands       Image: Control of Controler Commands       Image: Control of Controler Commands         Image: Control of Controler Commands       Image: Control of Controler Commands       Image: Control of Controler Commands       Image: Control of Controler Commands         Image: Control of Controler Commands       Image: Control of Controler Commands       Image: Control of Controler Commands       Image: Control of Controler Commands         Image: Control of Controler Commands       Image: Control of Controler Commands       Image: Control of Controler Commands       Image: Control of Controler Control         Image: Control of Controler Control of			Device Find	R	31			Cort	oler 1.0 Status Scree	È	ONLINE
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Image: Second Sector	Image: Set Data	<ul> <li>I: ACP: Access Con</li> </ul>	trol Driver			- 1	2	_	Austa	ry Inputs and Output		
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I.0.1: Doors       Image: Controller Commands       Image: Set Data and Time         Image: Group Commands       Image: Set Data and Time         Image: Controller Commands       Image: Set Data and Time         Image: Controller Commands       Image: Set Data         Image: Controller Commands       Image: Set Data         Image: Controller Commands       Image: Set Data         Image: Communication Settings       (Clock Here for more options)         Image: Control Commands       Image: Control Commands         Image: Control Commands       (Clock Here for more options)         Image: Control Commands       Image: Control Contrect Control Control Control Control Control Control C	Internation       Internation       Internation       Internation       Internation         Internation       Internation       Internation       Internation       Internation         Internation       Internation       Internation       Internation       Internation         Internation       Internation       Internation       Internation       Internation       Internation         Internation	THE CONTRACTOR	1	Edit	•							
Froperties     Card Formats)     (Clock here for more options)     (C	Cond Formats)     Converties     Cond Formats     Co	1,0.0; AD	(10		10			autout 1	Outpo	it 2.		
Properties     Door 1     Door 2       Watch Window     Reset Controller     Reset Controller       (Card Formats)     (Click here for more options) =     Get Data       (Communication Settings)     (Click here for more options) =     Cancel Alarm       InterLock     No InterLocking     Cancel Alarm       Anti-Passback     (Click here for more options) =     Cancel Alarm       Daylight_Saving     US Daylight Saving     I       GHT_Offset     -8	Properties     Download Manager       Watch Window     Reset Controller       (Card Formats)     (Cack here for more options)       (Card Formats)     (Cack here for more options)       (Card Passback     (Cick here for more options)       Properties     Cancel Alarm       InterLock     No InterLocking       Anti-Passback     (Cick here for more options)       Function     Normal Access Control       Daylight_Saving     US Daylight Saving       GHT_Offset     -0	1.0.1: Do	ors March	Controller Commands	0	Set Car	a and time					
Properties     Wetch Window       (Card Formats)     (Click free for more options) = (Communication Settings)       (Click here for more options) = InterLock     (Click here for more options) = (Click here	Properties     Watch Window     Reset Controller       (Card Formats)     (Click here for more options) InterLock       No InterLock     No InterLocking       Arth Passback     (Click here for more options) InterLocking       Function     Normal Access Control       Daylight Saving     US Daylight Saving       GHT_Offset     -8			Group Commands	• _		and the second	arrowers.	-	-		
Properties     Watch Window       (Card Formats)     (Clock here for more options) (Clock here for	Properties Watch Window (Card Controller Window (Card Controller C		-			NE-LOS	Gremware				Doer a	
Properties     Watch Window       (Card Formats)     (Click There for more options) =       (Communication Settings)     (Click here for more options) =       InterLock     No interLocking       Anti-Passback     (Click here for more options) =       Function     Normal Access Control       Daylight_Saving     US Daylight Saving       GHT_Offset     -8	Properties     Code Window     Get Data       (Card Formats)     (Click here for more options)     Get Data       (Communication Settings)     (Click here for more options)     Cancel Alarm       InterLock     No InterLocking     Cancel Alarm       Anti-Passback     (Click here for more options)     InterLock       Function     Normal Access Control     InterLock       Daylight_Saving     US Daylight Saving     InterLock			Download Manager	100	Resat (	ontroller		31		2	210
(Card Formats)     (Clock Here for more options)       (Communication Settings)     (Clock here for more options)       InterLock     No InterLocking       Anti-Passback     (Clock here for more options)       Function     Normal Access Control       Daylight_Saving     US Daylight Saving       GHT_Offset     -8	(Card Formats)     (Click here for more options)       (Communication Settings)     (Click here for more options)       InterLock     No InterLocking       Anti-Passback     (Click here for more options)       Function     Normal Access Control       Daylight_Saving     US Daylight Saving       GHT_Offset     -8	Properties	10	Watch Window	1	(constant)	watering .		Cost Date		~	Contractor
(Communication Settings)     (Cick here for more options)       InterLock     No InterLocking       Anti-Passback     (Cick here for more options)       Function     Normal Access Control       Daylight_Saving     US Daylight Saving       GHT_Offset     -8	(Communication Settings)     (Click here for more options)       InterLock     No InterLocking       Anti-Passback     (Click here for more options)       Function     Normal Access Control       Daylight_Saving     US Daylight Saving       GHT_Offset     -8	(Card Formats)	(Click Tiere	for more options) =	- 13	Get Da	ta:	LOCKES	care only	Library	Cookes	Cars Only
InterLock No InterLocking Anti-Passback (Cick here for more options) T Function Normal Access Control Daylight_Saving US Daylight Saving CRT_Offset -8	InterLock No InterLocking Anti-Passback (Click here for more options) Function Normal Access Control Daylight_Saving US Daylight Saving GMT_Offset -8	(Communication Settings)	(Cick here	for more options)	6	Carrol	Alarm					
Function Normal Access Control Daylight_Saving US Daylight Saving # GMT_Offset -8	Function         Normal Access Control           Daylight_Saving         US Daylight Saving           GMT_Offset         -8	InterLock	No InterLo	cking		Cano	Augurn .					
Daylight_Saving US Daylight Saving a GMT_Offset -8	Daylight_Saving US Daylight Saving a GMT_Offset -8	Anti-Passback	(Cick here	for more options)		11						
GMT_Offset -8	GMT_Offset -8	Function	Normal Ao	cess Control								
		Daylight_Saving	US Dayligh	t Saving		14						
Report Aux Input Fake London 11% of 20 ppp Courts	Report Aux Input False Loaded 176 of 30,000 Cards	GMT_Offset	-0									
		Report Aux Input	False				Loaded 17	6 of 30,000 C	ards			

Figure 12 - Reset Controller

- 1. Right click on the controller.
- 2. Under the Controller Commands drop down menu, select "Reset Controller".
- 3. A Reset Controller message box appears. Click Yes.



Figure 13 - Reset Controller Message Box

- After the Reset process erases the controller's database, a database download will be initiated.
- Any subsequent changes should be saved .

### **Status Screen**

When adding or resetting a device, you may see that the status of the sub-controllers is offline. The controller may also go offline during the download. The bottom of the Status Screen shows "Processing...". This is indicative of a download or if the system is busy loading data.

WEB Service WEB Service	ka Setiege	Utitites Help	Operator: ADMIN Computer: IMR/ON-PC		tay 06, 2014
WEB Service WEB Service  WEB Service				times	14:51:46
WEB Service WEB Service  WEB Service			1 Ala	rm Pending	
WEB Service WEB Service I: ACP: Access Control Driver I: ACP: 200 Controller (10:05:35) II: ACP-200 Controller (10:05:35) II: II: Doors II: II: Doors Properties (Card Formats) (Click here for more options) II InterLock No InterLocking Anti-Passback Function Normal Access Control	IDWARE	MANAGER	ACP		
Communication Settings)     (Click here for more options)     (Click here for more options)	1.81				
(Card Formats)         (Click here for more options)           (Communication Settings)         (Click here for more options)           InterLock         No InterLocking           Anti-Passback         (Click here for more options)           Function         Normal Access Control					
(Card Formats)         (Click here for more options)           (Communication Settings)         (Click here for more options)           InterLock         No InterLocking           Anti-Passback         (Click here for more options)           Function         Normal Access Control	_				
InterLock No InterLocking Anti-Passback (Click here for more options) Function Normal Access Control					
Anti-Passback (Click here for more options) Function Normal Access Control					
Function Normal Access Control					
	11				
Daylight_Saving US Daylight Saving	16				
GMT_Offset -8					
Report Aux Input False					

Figure 14 - Status Screen

"Loaded x of 30,000 Cards" indicates the number of cards (Personnel Manager) that have been loaded into the ACP controller's local database.

### HARDWARE DEVICE PROGRAMMING

This section covers the configuration of basic properties associated with sub-controller devices.

### Sub-Controllers

There are two types of Sub-Controllers for the ACP and inBIO controllers: Aux I/O and Doors. The Aux I/O has two supervised inputs and two relays. The MR-52 has eight supervised inputs and six relays. Although the number of inputs and relays differ between the MR-50 and MR-52, programming devices such as a reader, an input, or a relay is the same for both Sub-Controllers.



**Figure 15 - Hardware Devices** 

To Rename the Sub-Controller:

- 1. Click on the Sub-Controller property "Description".
- 2. Enter the name of the Sub-Controller. In our example, we replaced the default description with "Lobby Doors".
- 3. Press [ENTER].
- 4. Click on **Imp** from the Command Toolbar.

### **Programming the Sub-Controller Devices**

The sub-controller devices consist of the following:

- Doors
- Inputs
- Outputs
- Readers

To program a device, select the device and modify properties in the Properties window of the Hardware Manager. For additional information regarding the properties, please go to IS2000 Help.

#### Doors

#### **Door - Description**

Properties	
Address	1.0.1.D1
Device	Door Lock
Device_Type	Door Strike
Description	Lobby Door - Door Strike
Multimedia Files	(Click here for more options) 🗷 🚽
Video Links	(Click here for more options) 🗷
Alarm_Message	(Click here for more options) 🗷
Alarm Multimedia	
Logging	(Click here for more options) 🗷 🔤

**Figure 16 - Door Description** 

#### **Door – Access Grant Time**

The Access Grant Time defines the amount of time the door will remain unlocked when a valid card is read or a request to exit device is used.

Properties		
Video Links	(Click here for more options) 📧	*
Alarm_Message	(Click here for more options) 📧	
Alarm Multimedia		
Logging	(Click here for more options) 🗵	
Access Grant Time	5 seconds 🗸	
REX Mode	0- Unlocks Door	
Time Schedule (Unlock)	0	
Default_Reader_Mode	5- Card Only	
Lock Door when Opened	0- False	-

Figure 17 - Door Access Grant Time

### Inputs

#### **Door Contact - Description**

The Description is displayed throughout the IS2000 including Access Levels, Event Manager, History reports, etc.

Properties		
Description	Lobby Door - Door Contact	-
Multimedia Files	(Click here for more options) 🗵	
Video Links	(Click here for more options) 🗵	_
Alarm_Message	(Click here for more options) 🗵	
Alarm Multimedia		
Logging	(Click here for more options) 🗵	:
Door Held Open Time	10 seconds	
Input Supervision	1- Normally Open (No EOL)	

**Figure 18 - Door Contact Description** 

#### **Door Contact – Door Held Open Time**

The Door Held Open Time is used to supervise the door for alarm and the door held open timer.

Description	Door Contact 1	4
Multimedia Files	(Click here for more options) 🗷	
Video Links	(Click here for more options) 🗷	_
Alarm_Message	(Click here for more options) 🗷	
Alarm Multimedia		
Logging	(Click here for more options) 🗷	:
Door Held Open Time	10 seconds	
Input_Supervision	1- Normally Open (No EOL)	

Figure 19 - Door Contact Door Held Open Time

#### **Door Contact - Input\_Supervisions**

Properties		
Description	Lobby Door - Door Contact	*
Multimedia Files	(Click here for more options) 🗷	
Video Links	(Click here for more options) 🗷	_
Alarm_Message	(Click here for more options) 🗷	
Alarm Multimedia		
Logging	(Click here for more options) 🗷	E
Door Held Open Time	10 seconds	
Input_Supervision	1- Normally Open (No EOL)	-
	0- Unconfigured	-
	1- Normally Open (No EOL) 2- Normally Closed (No EOL)	

The Input Supervision defines the type of contact installed at the door.

Figure 20 - Door Contact Input Supervision

### Reader

**Proximity Reader - Description** 

Properties		
Address	1.0.1.R1	-
Device	Proximity Reader	
Device_Type	Reader	
Description	Lobby Reader	_
Multimedia Files	(Click here for more options) 📧	=
Video Links	(Click here for more options) 📧	
Alarm_Message	(Click here for more options) 📧	
Alarm Multimedia		
Logging	(Click here for more options) 🗵	-

Figure 21 - Proximity Reader Description

### TIME SCHEDULES

A Time Schedule will determine when a door can be accessed using a valid credential. Time schedules are also used to set up doors to unlock per defined schedule using Triggers and Macros.

- There are a total of 100 available Time Schedules and are remotely stored at the controller once downloaded. Devices that are connected to the controller, along with personnel records with access levels, will follow their respective Time Schedules.
- Each Time Schedule contains twelve "Intervals" and eight Holiday types.
- Three tabs: Time Schedules, Holidays, Time Schedule Status allows you to toggle between these screens.
- In the current screen, the green bars to the right are a graphical representation of the current Time Schedule. These bars change dynamically to reflect any modifications to the Time Schedules.

To go to Time Schedules:

- 1. Click on the Access Module.
- 2. Click on Time Schedules.

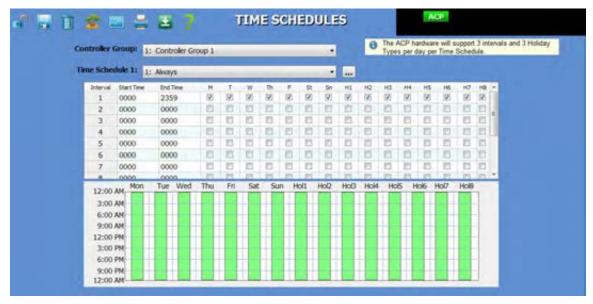


Figure 22 - Time Schedules

There are two "pre-programmed" Time Schedules.

- "1: Always" This Time Schedule should NOT be changed. The "1: Always" Time Schedule is always active. When this Time Schedule is assigned to an Access Level it provides 24/7 access to the readers which belong to that Access Level. **Do not program this time schedule**.
- "2: Work Hours (M-F 8 to 5)" We created this Time Schedule for your convenience. This Time Schedule will activate Monday through Friday from 8am (0800 hours) to 5pm (1700 hours), except on Holidays. You can modify the properties of this Time Schedule to correspond to your specific requirements.

### **Programming Time Schedules**

#### To program a new Time Schedule:

- 1. Select the next available Time Schedule.
- 2. Click on the (...) button to the right of the Time Schedule field.
- 3. Rename it from its default description and click on to update changes. In the example shown below, Time Schedule 3 was renamed Swing Shift.

Note: A Time Schedule always begins with Interval 1. Do not skip Intervals.

- 5. Use military time for the Start Time and End Time values.
- 6. Select the days of the week that will follow the Start and End Time.
- 7. An Interval cannot pass midnight. Use two intervals instead. For example, a swing shift interval from 22:00 to 03:00 can be programmed with two intervals. Interval 1 should end at 24:00 and interval 2 should start at 00:00, refer to the figure below.

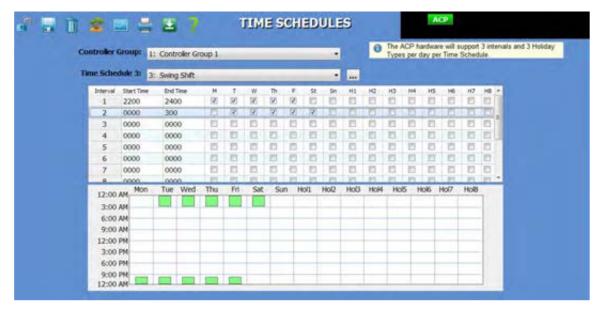


Figure 23 - Swing Shift

### **Programming Holidays**

#### To program Holidays:

- 1. Select the "Palm Tree" from the Command Toolbar.
- 2. Select a Holiday to edit. Enter a description of the new Holiday.
- 3. To enter a start date, click on the field corresponding to the new Holiday from the Start Date column and use the calendar to select a start date. Do the same for the stop date.
- 4. If you want to observe a Holiday, checkmark at least one of the three Holiday types (H1-H3). The Holiday type should match the Holiday type in the Time Schedules screen. If the Holiday type is not marked, the system will view this day(s) as a regular day(s).

Note: If the holiday lasts for more than a single day, you may enter the date for the last holiday of the period in the Stop Date column. For a single holiday, the Start Date and Stop Date should be the same.

For example, in the figure below, Fourth of July is entered as a Holiday that is observed on a single day; whereas Christmas is entered as a Holiday that is observed for four days.

#### To program Multiple Holiday intervals:

The following example illustrates how to associate multiple Holiday intervals to a single Time Schedule:

- 1. For Holiday ID #3, "Days before Thanksgiving" has a start date of 11/26/2014 and a stop date of 11/26/2014. We have selected Holiday type, H3.
- 2. For Holiday ID #4, "Thanksgiving Day" has a start date of 11/27/2014 and a stop date of 11/27/2014. We have selected Holiday type, H1.
- 3. For Holiday ID #5, "Day after Thanksgiving" has a start date of 11/28/2014 and a stop date of 11/28/2014. We have selected Holiday type, H3.

	Controller Group: 1: Controller Group 1	_		O The Typ	ACP es pe	hardw day s	are wi per Tim	l supp ne Sch	ort 3 i edule	nterva	is and 3	Holi
ID	Hukbry Description	Start Cale	Stop Date	HI	12	H3	714	нз	16	н7	ня	
1	Fourth of July	30/04, 2014	Jul 04, 2014	19	10	E1	(13	[2]	10	101	11	
2	Christmas	Dec 23, 2014	Dec 26, 2014	12	120	10	10	12	10	10	13	
3	Days before Thanksgiving	Nov 26, 2014	Nov 26, 2014	10	10	20	.0	10	13	10	10	
4	Thanksgiving	Nov 27, 2014	Nov 27, 2014	10	13	12	10	10	10	15	11	
5	Holday 5			10	13	10	13	21	10	10	121.	
6	Holday 6			12	10	12	10	10	123	EL	13	
7	Holday 7			10	10	13	0	10	10	10	13	
8	Holday 8			12	12	10	13	10	10	10	13	
9	Holday 9			10	13	13	13	121	12	10	103	
10	Holday 10			12	13	173	10	121	10	1	15	
11	Holday 11			13	10	10	0	13	10	10	12	
12	Holday 12			12	15	11	10	11	10	13	11	
13	Holday 13			10	13	173	10	12	103	10	12	
14	Holday 14			13	123	10	13	121	10	10	15	
15	Holday 15			13	13	13	0	11	13	13	123	
16	Holday 16			25	13	123	13	121	12	25	11	
17	Holday 17			12	25	83	13	15	10	121	123	
18	Holday 18			111	11	(PI	10	115	123	101	121	

**Figure 24 - Programming Holidays** 

Controler	Gro	up: 11	Cont	roler G	oup 1								0	The /	CP N	ardwa day ne	re will s er Time	Scher	3 intenial
Time Sche									-			-							
Interval		artTime	End		м	.т.	w	Th		St.	Sn	H1.	HQ.	на	118	HS	- 145	117	10.1
1	22	200	240	0	- 90	3	18	125	8	-83	1.03	15	11	10	10	10	10	13	12
2	00	000	300	)	12	192	12	98	10	12		13	11	0	12	10	121	13	п.
3	11	100	160	0	12	10	10	10	11	12	12	12	12	10	10	10	21	10	10
4	11	130	140	00	13	0	11	83	8	0	23	12	170	8	10	B	15	10	(2)
5	13	330	153	30	10	1.23	13	13	13	13	12	13	13	10	-83	10	123	13	0
6	00	000	000	00	12	0	10	8	11	23	0	13	13	13	13	10	123	18	123
7	00	000	000	00	12	0	12	83	0	10	12	12	12	13	13	0	123	10	13
	00		000		17	11	11	11	11.	11	10	12.	22	11	211	1.01	17	1.82	10.0
12:00	AM.	Mon	Tue	Wed	Thu	Fit	Sat	Sur	h Hk	1kc	Ho <sub>2</sub>	HoB	Hol4	Ho	5 1	Hol6	Hol7	Hol8	
3:00	AM	-						_	-	_				-	-	_			-
6:00	1000					-		-		_		-		-	_	_	_		
9:00	AM	-	_	-	-	_	-	-	-	_		-	-	-	_	_	_		
12:00	PM	-	_			_	-		-		-		-	-	-	_			-
3:00	PH		_		_			-			-		-	-	-	_	_		

Figure 25 - Multiple Holiday Intervals

Note:

- Holiday types match the Holiday type day mask in Time Schedules.
- The green bars reflect the Time Schedule associated with the Holidays.

### **Time Schedule Status**

To determine the status of all the Time Schedules, click on the Status icon from the Command Toolbar. The screen displays the current status, active (green) or inactive (grey) of all programmed Time Schedules. Notice that Time Schedule 1 is active. This correctly corresponds to the programmed Time Schedules.

Controller:         1.0: ACP-200 Controller (10:05:35)         Time Schedule Activated           Ite: Tue May 06, 2014         Time: 04:30         Time: 04:30           1         11         21         31         41         51         61         71         81           2         12         22         32         42         52         62         72         82	eed .
<b>1</b> 11 21 31 41 51 61 71 81	30:44 PH
	- 91
<b>2</b> 12 22 32 42 52 62 72 82	90
3 13 23 33 43 53 63 73 83	93
4 14 24 34 44 54 64 74 84	9
5 15 25 35 45 55 65 75 85	95
6 16 26 36 46 56 66 76 86	96
7 17 27 37 47 57 67 77 87	97
8 18 28 38 48 58 68 78 88	96
6 16 28 36 46 58 60 78 86	99
8 18 23 38 46 56 60 78 88 9 19 29 39 49 59 69 79 89	
16         26         36         46         56         66         76         86           17         27         37         47         57         67         77         87	

Figure 26 - Time Schedule Status

### ACCESS LEVELS

An Access Level is defined as a reader or group of readers with a Time Schedule association. Access Levels determine when a person has access to specified readers.

To go to Access Levels:

- 1. Click on the Access Module.
- 2. Click on Access Levels.

000 Version 9.3.98		-			
	-	-	-	1570	200
est. Events Triggers Graphics Herdwar		Second Second	Utilities Help	Operator: ADMIN Computer: IMRON-PC	Date: May 06, 20 Time: 16:54:08
				Dri	vers
E E 1	ACC	ESS LE	VELS	ACP	
Controller Group: 1: Controller Group 1		•	Access Control Readers	Floor Groups	
Access Levels		n	Time Schedule: 1	: Always	
- 001: Access Level 1		6 L		and the second s	
			ACRGs:		100
002: Access Level 2			ACRGs:		
002: Access Level 2			ACRGs:		
			ACRGs:		
003: Access Level 3			ACRGs:		
003: Access Level 3 004: Access Level 4 005: Access Level 5					
003: Access Level 3 004: Access Level 4 005: Access Level 5 006: Access Level 6			Access Control Reade	ers:	
003: Access Level 3 004: Access Level 4 005: Access Level 5			Access Control Reade	ers:	
003: Access Level 3 004: Access Level 4 005: Access Level 5 006: Access Level 6			Access Control Reade	ens: pop 1 00 Controler (10:05:35) 21: Lobby Door - Door Strike	
003: Access Level 3 004: Access Level 4 005: Access Level 5 006: Access Level 6 007: Access Level 7			Access Control Reade	ens: sup 1 00 Controler (10:05:35)	
003: Access Level 3 004: Access Level 4 005: Access Level 5 006: Access Level 6 007: Access Level 7 008: Access Level 8			Access Control Reade	ens: pop 1 00 Controler (10:05:35) 21: Lobby Door - Door Strike	
003: Access Level 3 004: Access Level 4 005: Access Level 5 006: Access Level 6 007: Access Level 7 008: Access Level 8 009: Access Level 9			Access Control Reade	ens: pop 1 00 Controler (10:05:35) 21: Lobby Door - Door Strike	

Figure 27 - Access Levels

### Access Level Manager

The Access Level Manager consists of the following:

Three basic windows:

- Access Levels (ACL)
- Access Control Readers (ACR)
- Access Control Reader Groups (ACR Groups)

Two drop down menus:

- Controller Group
- Time Schedule

Two tabs:

- Access Control Readers
- Floor Groups (Elevator Control)

### Access Control Reader (ACR)

Access Control Readers are readers that can be assigned to an Access Control Reader Group (see below) or an Access Level. Readers assigned directly to an Access Level will also have a Time Schedule association.

### Access Control Reader Groups (ACR Groups)

Access Control Reader Groups are a collection of Readers. The Access Control Reader Group is used in two scenarios. First, in systems with a large number of readers, the readers can be grouped into any number of readers which are common to specific areas and then assigned to Access Levels with the proper Time Schedule. Second, an Access Control Reader Group can be assigned to a card (with a Time Schedule) directly from the Personnel Manager. This cannot be done with readers. If you want the ability to assign a special reader to a card make sure to create an Access Control Reader Group.

### Access Levels (ACL)

An Access Level is defined as a reader or group of readers with a Time Schedule association. Access Levels determine when a person has access to specified readers. Prior to creating the Access Levels and Personnel database, we recommend that you first break down the site by user groups (departments and areas of access). Although our system provides 255 Access Levels per Controller Group it is easier to manage a system when there is an "efficient" number of Access Levels.

### **Programming Access Levels**

An access level can consist of ACR Groups, readers or a combination of the two. Let's begin with an ACR Group.

To create an ACR Group:

1. Right mouse click on the ACR Group window. From the menu, select "Add New ACR Group." Refer to the figure below.

an Joens Tregers Scaptics Hardwa	Carterio Carterio	IS2000 Operator: ADMIN Date: Hay of Computer: BMRON-PC Time: 16:55: Drivers
a a 7	ACCESS L	
Controller Group: 1: Controller Group 1	•	Access Control Readers Poor Groups
Access Levels	• 51	Time Schedule: 1: Always
001: Access Level 1		ACRGs:
- 2003: Access Level 3		Add New ACR Group Add Selected Reader(s) to ACR Group
005: Access Level 5		Remove Reader from ACR Group
006: Access Level 6		Access Control Res
- 7 008: Access Level 8		10.1.01: Lobby Door - Door Strike     1.0.1.02: Door 2
010: Access Level 10		
011: Access Level 11		

Figure 28 - Add New ACR Group

2. To rename the ACR Group, right mouse click on the selected **New ACR Group**. From the menu, select "**Edit Description**".

E LINES TROPES FREEMEN	Voles Settings	Attitues very	Operator: ADMIN Computer: DMRON-PC	Date: May 06, Time: 16:56:55
≞ ≅ ?	ACCESS LE	EVELS	ACP	
1: Controller Group 1	-	Access Control Reader	s Floor Groups	
ccess Levels	• 51	Time Schedule:	1: Aways	
001: Access Level 1     002: Access Level 2     003: Access Level 3     004: Access Level 4     005: Access Level 5     006: Access Level 6     007: Access Level 7     008: Access Level 8     009: Access Level 9     009: Access Level 10     011: Access Level 11	. 6	Access Contr B 1: Con S 1: Con	All New ACR Group All New ACR Group All Selected Reader(s) to ACR Group Netes ACR Group Inter ACR Group	88

#### Figure 29 - Edit Description of ACR group

3. The New ACR Group has been renamed All Readers.

es Dants Trigges Craptics Herdware	Video Settings	tabes Help	Operator: ADMIN Computer: IMRON-PC	Date: May 06, 20 Time: 16:58:01
= = 7	ACCESS LE	VELS	Drive	15
Controller Group: 1: Controller Group 1		Access Control Readers	Ploor Groups	
Access Levels 001: Access Level 1 002: Access Level 2 003: Access Level 3 004: Access Level 4 004: Access Level 5		Time Schedule:	: Aways	•
- 2006: Access Level 6 - 2007: Access Level 7 - 2008: Access Level 8 - 2009: Access Level 9		E 1.0.1.0		.00

Figure 30 - ACR Group - All Readers

- 4. To select reader(s) to be assigned to an ACR Group or an ACL:
  - 1. Go to the Access Control Readers window.
  - 2. Click on one reader and assign each one at a time.

-OR-

- 3. Select multiple readers, check the box next to the corresponding reader or click on the "Select All" button to select all the readers.
- 5. To assign selected readers to an ACR Group, perform one of the following reader assignment methods:
  - Menu Assignment
  - Drag and Drop

#### Menu Assignment

After reader(s) have been selected:

- a. Initiate a right mouse click on ACR Group "All Readers". This will bring up a menu.
- b. Click on "Add Selected Reader(s) to ACR Group".

#### **Drag and Drop**

- a. Select the reader(s).
- b. Point the mouse to the reader or reader block.

- c. Hold down the left mouse key until you see a "hard drive" icon appear.
- d. Now drag the hard drive icon over the ACR Group and hold it there until you see a "box" appear around the ACR Group name.
- e. Then, let go of the mouse button.

a Eventa	mm Tropen	Grapher	No.	Valee	and a second	-		0perator:ADMIN Computer:IMRON-PC	Date: May 06, Time: 16:58:5
a a 1				ACO	CESS LE	VELS		Drivers ACP	
ontroller Group:	1: Controlle	r Group 1				Access Cor	trol Readers	Floor Groups	
ccess Levels					M	Time 5	chedule: 1	Always	
001: Acce					Ô.	ACRGs:	-		M
	is Level 3 is Level 4						Al Readers	Add New ACR Group Edit Description Add Selected Reader(1) to ACR Group	
- 🎁 006: Acce - 🎁 007: Acce						Access Co	Controle	Delete ACR Group	.00
- 7 008: Acce						9: 10	1.0: A 2 1. 2 1.0.1.0	Refresh Tree )2: Door 2	-
- 7 010: Acces									

Figure 31 - Add Selected Reader(s) to ACR Group

- 6. To assign an ACR Group to an Access Level:
  - Rename the Access Level. Select the Access Level and right mouse click. From the menu, select "Edit Description." Access Level 1 has been renamed to "All Access."
  - Assign the ACR Group to the Access Level by:

#### Menu Assignment

- a. Select the ACR Group
- b. Initiate a right mouse click on the "All Access" Access Level.
- c. From the menu, select "Add Selected ACR Group to Access Level."

#### -OR-

#### **Drag and Drop**

- a. Select the ACR Group.
- b. Drag over the Access Level.

en Dverta Triggera Draphica Hardware Va	dea Settings	inter inter	15200 Operator: ADMIN Computer: DHRON-PC Drive	Date: May 06, 20 Time: 17:00:03
a a ?	ACCESS LE	VELS	ACP	
Changes have been made that require a download.		Access Control Readers	Floor Groups	
Access Levels	• •	Time Schedule: 1:	Always	•
001: Accurr Lawel 1 Add Selected Reader(s)		ACRGS		M
003: Add Selected ACR Group 004: State Description 005: Access Level 5		1.0.1.D1:	Lobby Door - Door Strike Door 2	-
- Contraction -		Access Control Reade	rs:	06
007: Access Level 7 008: Access Level 8 009: Access Level 9 010: Access Level 10			0 Controler (10:05:35) 1: Lobby Door - Door Strike	

Figure 32 - Assign ACR Group to an Access Level

#### To review:

- ACL1 (All Access) includes ACR Group 1 (All Readers) associated to Time Schedule 1 (Always).
- The readers are always available for further assignment to other ACR Groups and Access Levels.
- A **final** is not present in the Command Toolbar. Any edits made in this screen are automatically saved to the database.

	~	ele.			Operator: ADMIN	Date: May 06, 20
ess Events Troppers Graphics Hardware	Video		MURRE	Hela	Computer:IMRON-PC	Time: 17:02:21
					Driv	ers
887	ACC	ESS LE	VELS		ACP	
Changes have been made that require a download.		1 3	Access Co	ontrol Readers	Floor Groups	
Access Levels	•	<u>.</u>	Time	Schedule: 1	: Always	
O01: Access Level 1		0	ACRGs:	12		M
I: Al Readers Time=1: Aways     O02: Access Level 2			- 😰	1: Al Readers	(	1
			E	1.0.1.01	I: Lobby Door - Door Strike	
003: Access Level 3				1.0.1.00	t: Door 2	
004: Access Level 4			-			
005: Access Level S				ontrol Read	and the second sec	66
- 2 006: Access Level 6				Controler Gn	oup 1 00 Controller (10:05:35)	
- 007: Access Level 7			1000	1.0.1.0	01: Lobby Door - Door Strike	8
- 2008: Access Level 8				PS 1.0.1.0	02: Door 2	
- 009: Access Level 9						
010: Access Level 10		1.1				

Figure 33 - Assigned Access Level

### **Access Level Exercise**

Let's run through an exercise where we will create a new ACR Group and assign this ACR Group in combination with a reader (along with Time Schedules) to an Access Level.

- 1. Right click on the ACR Group window to display the menu shown in the figure below.
- 2. Click on "Add New ACR Group".

ss Events Trippers Capitics Handware	Ales Settings		May 06, 20 17:05:53
a a 7	ACCESS LI	EVELS ACP	
Changes have been made that require a download.		Access Control Readers Boor Groups	
Access Levels	1.1	Time Schedule: 1: Always	
O01: Access Level 1	0	ACRGs:	88
002: Access Level 2 003: Access Level 3 004: Access Level 4		Add New ACR Group	
005: Access Level 5 006: Access Level 6 007: Access Level 7		Access Control Delete ACR Group Delete A	06
008: Access Level 8		🗹 1.0.1.02: Door 2	
010: Access Level 10			

Figure 34 - Add Another ACR Group

3. Rename the New ACR Group "Lobby Doors".

	152000	
es Dents Toppers Graphics Hardware Video Setting	Computer: MRON-PC T	Nabe: May 06, 2 Time: 17:07:21
	Drivers	
🚔 🗷 🕴 ACCESS	LEVELS	
Changes have been made that require a download.	Access Control Readers Floor Groups	
ccess Levels	Time Schedule: 1: Aways	•
001: Access Level 1	ACRGs:	66
1: Al Readers Time=1: Always      002: Access Level 2      003: Access Level 3      004: Access Level 4      004: Access Level 4	1.0.1.D1: Lobby Door - Door Strike     1.0.1.D2: Door 2     Lobby Doors	
005: Access Level 5	Access Control Readers:	.86
- 10 006: Access Level 6 - 10 007: Access Level 7 - 10 008: Access Level 8 - 10 009: Access Level 9 - 10 009: Access Level 10		

Figure 35 - Rename Default ACR Group

4. Assign the Lobby Door to the ACR Group "Lobby Doors".

- 5. Click on the Time Schedule's drop down menu and select Time Schedule 2 "Work Hours (M-F 8 to 5)".
- 6. Create a new Access Level using ACL2. Rename ACL2 to "Day Time General Access". Click to highlight ACR Group 2 "Lobby Doors", and assign it to ACL2 "Day Time General Access".
- 7. Use the same assignment process (drag and drop or menu assignment) as performed for reader assignment to an ACR Group. The difference in the assignment of an ACR Group to an ACL is in the drag and drop feature, where you will see a "Folder" icon instead of a Hard Drive icon.

Note: The Lobby Door can also be assigned directly to the Access Level. See the next exercise.

		15200	a
es Events Triggers Graphics Herdware Voleo Settings	Unities Help	Operator: ADMIN Computer: 3MRON-PC	Date: May 06, 201 Time: 17:11:44
		Drive	95
🚊 🖭 📍 🔹 ACCESS L	EVELS	ACP	
Changes have been made that require a download.	Access Control Readers	Roor Groups	
Access Levels	Time Schedule:	: Work Hours (M-F 8 to 5)	•
O01: Access Level 1	ACRGs:		66
I: Al Readers Time=1: Always     Day Time General Access     Z: Lobby Doors Time=2: Work Hours (M-F 8 to 5)     003: Access Level 3	2: Lobby Do	2: Door 2 ors 1: Lobby Door - Door Strike	
- To 004: Access Level 4	Access Control Read		.00
005: Access Level 5 006: Access Level 6 007: Access Level 7 008: Access Level 8 009: Access Level 9	₩ 1.0.1.4	oup 1 100 Controller (10:05:35) D1: Lobby Door - Door Strike D2: Door 2	

Figure 36 - Access Level 2

### **ACCESS GRANTED**

Once IS2000 is up and running, cards can be presented to the reader. This section outlines the steps necessary to obtain an Access Granted event.

- Click on the Event Manager.
- Present a card to any operational door reader.

The following event was generated:

[Event Description: Access Denied: Invalid Name: 26 Bits]

Note: Access Denied is always followed by an Access Denied related event.

The above event indicates that controller does not have a valid card format. The correct card format will have to be programmed.

#### Programming a valid card format:

- 1. Go to Hardware Manager and Unlock the module.
- 2. Click on the controller (ACP) to display controller related properties.
- 3. Go to Card Formats, under the Properties window.
- 4. Click on the down arrow next to (Click here for more options) to open the **Card Formats** window.
- 5. There are 9 "Format" tabs for each of the card bit counts.
- 6. Click on the 'Crd Format Library' button to display the library of bit patterns for the respective bit count.
- 7. Once the appropriate bit pattern is chosen and/or entered for the bit count then click  $\heartsuit$ .

Card Form	at Library		
Card Bit String		D	
			0 bits k
p- Parity	s- Ste Code	F-Facility Code	c- Card Number
Parity Bit Strin	g:		
		eeeeee	eeeeeeeoooooooooooooo
ann	12/201	and to be	0 bits k
o- Odd Panty	e-Even Party	b- Overlapping Parts	/

Figure 37 - Card Format

8. Card Formats are now programmed. Click on

Note: Programming the Card Format is not required for (identical) additional cards.

- 9. Go to Event Manager.
- 10. Present the same card to the door reader.

The following event was generated:

[Event Description: Access Denied: Card ►► Name: 1) Name

Name: 1) Not in Database Data: 60062]

The above event indicates that the card is not programmed in the database. We will need to program the card number (60062) in the Personnel database.

To program the card in the Personnel database, go to Personnel Manager.

- 1. Click on the Access Module.
- 2. Click on Personnel Manager.

# PERSONNEL MANAGER

The Personnel Manager tracks pertinent employee data in four separate tabs.

## Access Control

Access Control includes Photo ID, First and Last Name, Card #, Activation/Deactivation Date, and Access Levels.

	PERSO		VAGER	Corporter: MOMIN Computer: MRON-PC Dr	Dote: May 06, 2014 Time: 17:54:46
Find 😨	Access Control	Employee Info	Custom Fields	Advanced Access	
Record 1 of 1 •	2		Last Na Car Card	dø:	ssue Code: 0
	Card Type: Activate Card Activate Date: May 06, 2014 Expiration Date: Jan 01, 2029				ay 3MRON-PC (May 06, 2014)

#### Figure 38 - Personnel Manager: Access Control

## Card Type

An important feature in Access Control is Card Type. Card Type keeps track of the status of cards assigned to Personnel Records.



Card Type works in conjunction with **"Group Edit"** found on the Command Toolbar. The Group Edit window has two tabs:

- 1. Card Type Templates Add, edit, and/or delete Card Type Templates.
- 2. Field Edit Edit a group of records by a specific field.

#### **Card Type Templates**

- Card Type Templates can be used to assign a set of values that are common to a particular group of Personnel Records.
- Personnel fields can be enabled/disabled for the card template, by either checking/not checking the selected field.
- Card Templates should be configured BEFORE building the Personnel database.
- Existing Card Type Templates can be edited to meet system requirements

rd Type Templates Field Edit Gro	up Add	
Card Type: Normal		
Template_Name	Normal	
V Picture		E
🛿 Activate_Date	3/10/2004 💌	
De_Activate_Date	12/4/2029 💌	
Trigger_Code	0	
Trigger_Code1		
Trigger_Code2		
Trigger_Code3		

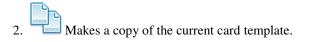
Figure 39 - Card Type Templates

**Card Template buttons:** 

1. Adds a new template.

d Type Templates Field Edit Gro	oup Add	
Card Type: New_Template		 •
Z Template_Name	New_Template	 *
7 Picture		111
Activate_Date		
De_Activate_Date		
Trigger_Code		
Trigger_Code1		
Trigger_Code2		

Figure 40 - New Template



ed Type Templates <u>Meld Edit G</u>	aup Add	1	Card Type Templates Peld Edit O	out Add	
Card Type: Normal			Card Type: Copy of Normal		
[2] Template_Name	Normal		92 Templete Jtame	Copy of Normal	
Petere	5		(2) Picture	5	
Activate_Date	3/10/2004		W Activate_Date	3/93/3004	
2 De_Activate_Date	12/4/2029 🕥		[2] De_Activate_Date	12/4/2029 🖃	
2 Trigger_Code	0		[9] Trigger_Code	0	
Trigger_Code1			E trigger_Code 1		
Tripper_Code2			Trigger_Code2		
Tripper_Code3			E Trigger_Code3		
Trigger Code4			Those Code4		+

Figure 41 - Copy of Card Template

- 3. Saves the card template. Make sure to click on save after adding or making changes to card templates.
  - Deletes the current card template.

**Field Edit** 

- The Group Edit button under Field Edit tab will edit ALL of the currently viewed Personnel Records with the Data value defined for the Data Field specified.
- **Edit** The Group Delete command will delete ALL of the currently viewed Personnel Records.

Data Field:	Activate_Date		25	
Data:				
	system da			
	8	Î		
	Edit	Delete		
The Group Edit command defined for the Data Fiel		rently viewed Pert	sonnel Records	with the Data value

Figure 42 - Field Edit

### **Recommendations for Card Type Use**

If a card is lost or stolen:

- Do NOT delete the Personnel Record
- Use the Lost or Stolen card type template.
- -OR-
- Edit the Lost or Stolen card type template so that the access level is set to "blank". If the lost or stolen card is used, the events are recorded but access is not granted.

It is strongly recommended that the Group Edit tool be utilized only by the Administrators. This tool should be removed from other profiles using the Profile Editor.

### Employee Info

Employee Info includes more detailed information, which includes Company, Department, Title, SSN, Address, DOB, DOH, Telephone number, and E-mail. Additional information may be entered in the Custom Fields.

7 ÷ 0 1 ≤ 2 3 1 Ind ⊽		spioyee Info	Custom Fields	Advanced Access	
Record 1 of 1	Company: Department: Title: Social Security#: Address1: Address2:			Date of Birth: Date of Hire: Work#: Home#: Employee#:	
	Notes:				C

Figure 43 - Personnel Manager: Employee Info

# Advanced Access Control

Advanced Access Control includes 12 advanced options that control different features of personnel record.

Acess Everis Trapers Crashes	serdware Video :		Inte Inte	LS20 Operator: ADMIN Computer: IMRON-PC Drh	Date: May 06, 2014 Time: 18:13:49
Find V				Advanced Access	
Record 1 of 1 •	Operator: (None) Vacation Start Date	•		emporary Access Level SI	ID: 52 how in Guard Tour art Date:
	Vacation Stop Date	5	6	emporary Access Level St	
	Watch Window	Access Trac		Do Not Alter Current Use C	ersonnel Access

Figure 44 - Personnel Manager: Advanced Access Control

# **ID Badging**

ID Badging is an optional application that allows badge templates to be created. Templates can be linked to the Personnel database.

To use the Badge Designer:

- 1. Click on the Event Manager module.
- 2. Go to the Help menu from the Navigation toolbar.
- 3. Choose About IS2000.
- 4. Set the ID Badging option to True.
- 5. Open the Personnel Manager module.

	iardware Video Settings utilities Help Computer:DRRON-PC	Cate: May 06, 2014 Time: 18:17:22
Find V Record 1 of 1	PERSONNEL MANAGER	
	Capture Signature	×

Figure 45 - Personnel Manager: ID Badging

# Adding a Record

- a. To add a new record, click on **T** in the Command Toolbar.
- b. Enter information in the following fields.
  - a. First Name: John
  - b. Last Name: Smith
  - c. Obtain an access control card or key and enter its card number into the "Card Number:" field.
  - d. Right click on the Access Levels window.
  - e. Select "Add Access Level(s)"

Access Dentes Tragent Credes	Personal	State	NAGER	Operator: ADMIN Computer: DHRON-	ES2000 PC Drivers	Date: May 06, 2014 Time: 18:19:20
Find	Access Control	Employee Info	Custom Fields	Advanced Access	ID Badging	Alarm Integration
New Record	Card Type:		Card	d#:	Re-Issue ( Hotst	Code: 0
	Activate Car Activate Date: May 06, 2014 Expiration Dat Jan 01, 2029	rd 		R Add Access Levels) Add Access Levels) Add ACR Group(s) Formure Selected In	cess Level	NH-PC (May 06, 2014)

Figure 46 - Add Access Level(s)

- f. Select "1: All Access"
- g. Click on 📿

Controller Group: 1: Controller Group 1	-
Access Levels	
	51
001: All Access 002: Day Time General Access 003: Access Level 3 004: Access Level 4 005: Access Level 4 005: Access Level 5 006: Access Level 5 007: Access Level 7 008: Access Level 8	á
009: Access Level 9 010: Access Level 10 011: Access Level 11 012: Access Level 12	

Figure 47 - All Access

h. To associate the personnel record with a picture, click on the picture box to view photo options.

Note: All photos should be saved in the JPG format and stored in the photos folder found in the directory path IS2000\data\graphics\photos.

i. Click on 🚾 from the Command Toolbar.

The driver will update the database information to the controller (assuming the controller is online).

						152000	3
Access Events Triggers Graphics Herde	The state	Settings	Villos Hel	- c	Operator: ADMIN Computer: IMRON-	PC	Date: May 06, 2014 Time: 18:22:52
						Drivers	
2 + 2 1 2 4 2 7	PERSO	NNEL MA	NAGER		ACP		
Find 💎 🗛	ccess Control	Employee Info	Custom Fields	N	Ivanced Access	ID Badging	Alarm Integration
Record 1 of 1	1.50		First	Name:	John		
New Record			Last	Name:	Smith		
				Card#:	60062		
			•	ard#2:	-		
		ALC: NO		PIN:		Re-Issue C	ode: 0
			Vet	ide ID:		Hotsta	amp: 0
	Card Type:						
1		5	- Access L	evels			
	Z Activate Card						
	Activate Date:				Add Access Le	(Meu	
	May 06, 2014	-	•			26.0.7	-
	Expiration Date: Jan 01, 2029		3		Add Temporar	encounter M	
	341 01, 2029		-	- 1	Add ACR Grou	P(I)	C (May 06, 2014)
					Remove Select	nillen.	

Figure 48 - New Record Added

Now, let's test our programming.

- 1. Go to the Event Manager.
- 2. Present your newly added card/key to a door reader.

The following event was generated:

[Event Description: Access Granted: Door Used >> Name: John Smith Data: 60062]

The above event indicates that the record is programmed correctly.

# ALARM MANAGER

The **Alarm Manager** can only be accessed when there is at least one or more alarms pending. These alarms can be system events and/or hardware events.

## **Alarms Pending**

The "X Alarms Pending" message is located in the Information Box. When alarms occur, this message will appear in flashing red and will indicate the number of pending alarms.

The Alarm Manager can be set to **Auto Alarm Mode**. This mode automatically displays the Alarm Manager when an alarm is generated, without having to click on the "X Alarms Pending" message.

To set up Auto Alarm Mode:

- 1. Go to **Settings** in the Module Toolbar.
- 2. Select **Profile Editor**.
- 3. Unlock the Module.
- 4. Go to the **Profile Settings** window.
- 5. Select General Options.
- 6. Set the Auto Alarm in the Properties window to True.

By default, the administrative operator needs to click on the "X Alarms Pending" message to go to the Alarm Manager.

### Activating the Alarm Manager

To activate the Alarm Manager when alarms are pending, go to the Information Box and click on the "X Alarms Pending" message flashing in red.

Acces	and the second se		No.	Varu Settings Lätting reg	Operator: ADMIN Date: May Ol Computer: IMRON-PC8 Time: 20:275	
					1 Alarm Pending	
<b>0</b>	2			EVENT MANAGER	WEB EPC AXE	AC
Date	Time	Controller Group	Address	Address Description	Event Description	
May 06, 2014	8-25:47 PH	Comp/Admin	9.0	IHRON-PC8	Download Complete: Hardwar	•
Play 06, 2014	8:27:15 PH	Comp/Admin	9.0.0.01	Cafe Entrance	Door is Opened	
Hay 06, 2014	8-27:15 PH	Comp/Admin	9.0.0.01	Cale Entrance	Door Forced Open	
Hay 05, 2014	82625 PH	Comp/Admin	6.0.1.07	Door 2	Reader Hode: Card Only	
Hay D6, 2014	82625 PH	Comp/Admin	603.01	Deer 1	Reader Hode: Card Only	
tay 06, 2014	82635 771	Comp/Adman	6.0.1.02	Door 2	Beader Hode: Card Only	
flay 06, 2014	8/26/36 PH	Comp/Admin	60.101	Dear 1	Reader Hode: Card Only	
Hay 06, 2014	8:25:04 PH		2	EPC: Access Control Driver	Download Complete	
tay 06, 2014	8/25/21 PH	Comp/Admin	6.0.0.02	Anx Oupset 2	Control Point Deactivated	
Nay DS, 2014	8.25(20 PH	Comp/Advin	6.0.0.01	Aax Ouput 3	Control Point Deactivated	
Ney D5, 2014	825/23 PH	Comp/Admin	63.182	Worksult 2	Door Schedule is Enabled	
Nay 05, 2014	625-22 PH	Comp/Admin	63.5.01	Workest 1	Door Schedule is Enabled	
May D6, 2014	8:25:20 PH	Comp/Admin	63.1.01	Workout 1	Door is Lockerd	
					0	_

Figure 49 - Alarms Pending

### **Device/System Alarm Group Folder**

The Alarm Manager will create a folder for each device or system event that generated the alarm. The folder groups all pending alarm events for the device or system event.

For example, a door contact can generate multiple alarm events (runaway). These events are all stored in the door contact's folder waiting for operator acknowledgement.

The folder in the first row "Café Entrance" displays one alarm pending for this device.

To the left of the device folder is the "Alarm Event Tree" with either the (+) or (-).

- 1. To expand and display the device's pending alarms press the plus (+).
- 2. To collapse (refresh) the folder, press the (-).

### **Alarm Processing**

1. Select the alarm event that you want to work on.

We will begin with the following alarm [Door Forced Open on May 06, 2014 20:27:15]

the second s	-	1.0			Imron's	PCB
Access Events Tragers Graphics Hardware Vid	o Settings	Ville	e e e e e e e e e e e e e e e e e e e	Operator: Computer:	ADMIN IMRON-PCB	Date: May 06, 2014 Time: 20:29:51
the set while all the set of the set of the set					1 Alarm i	Pending
🚍 🤮 🚝 🚝 🍍 🚺 🗛	ARM MA	NAGE	R	WEB	EPC AXI	ACP
1 Alarms Pending			Cafe Entra	ance		
Cafe Entrance			Cafe Entra Door Forc	ed Open		
Door Forced Open on May 05, 2014 20:27:15			May 06, 2014			Address: 9.0.0.D1
			Alarm Inform	nation		
			Call the Police	Department		
			Operator Co			-
			Clear al alarm	15		
			0	Clear Alarms	in Group and M	ove to History
						_

Figure 50 - Alarm Manager

2. Then, enter in some comments for this alarm in the Operator Comments box to the right. Optional pre-defined Operator Comments can also be selected from the drop down menu.

These pre-defined Operator Comments can be customized in the Profile Editor and is optional when clearing an alarm. Additional Operator Comments can be added or existing ones can be modified.

To add additional Operator Comments:

- a. Go to **Settings** in the Module Toolbar.
- b. Select **Profile Editor**.
- c. Unlock the Module.
- d. Go to the **Profile Settings** window.
- e. Select Alarm Manager.
- f. Scroll down in **Properties** window to **Operator Comments**.
- 3. Select the appropriate Operator Comments, if necessary, type additional information in the box below to further detail the alarm.
- 4. Click on

lay 06, 2014 20:27:15	Address: 9.0.0.D
Alarm Information	
Call the Police Department	
Operator Comments	T the second second
	Test Alarm, please ignore Call the Police department Call the Fire department
Clear all alarma	
] Clear all alarms	

Figure 51 - Clear All Alarms

A quick way to clear all pending alarms (for all devices and/or system events) is to check the "Clear all

alarms" box and click on when done. Clearing all alarms in this manner is especially useful during installation or testing, rather than clearing alarms individually.

To set up the **Clear all alarms** function:

- a. Go to **Settings** in the Module Toolbar.
- b. Select Profile Editor.

- c. Unlock the Module.
- d. Go to the **Profile Settings** window.
- e. Select General Options.
- f. Set the Alarm Manager Admin in the Properties window to True.

Once an alarm is cleared, it is stored in the history database for future reporting purposes.

# DOOR SCHEDULES

Door Schedules are used to program reader(s) to unlock on a specific time of day for a specific timed interval. This functionality is achieved via the IS2000 server and therefore requires that the IS2000 server be running in order for the reader(s) to follow the programmed unlock timed intervals.

To go to Door Schedules:

- 1. Click on the Access Module under the Navigation Toolbar.
- 2. Click on Door Schedules.

	N	-	Operator: ADMIN	152000	
n iven Tropes Gradies Hardwa	The second second	Utilities Hely	Computer: IMRONH		4ay 06, 20 20:51:06
			-	Drivers	_
	DOOR SCH	EDULES	ACP		
Controller Group: 1: Controler Group 1	•	Start Time: 120	0AM 📩	End Time: 12:00 AM	
Please Note: Door Schedules are Host dependent.		ACRGs:			.00
Door Schedules	11	- 1: Al Ro	aders		1
- 📰 May 6, 2014 (Tuesday)	6	2: Lobby	y Doors		
- T May 7, 2014 (Wednesday)					
May 9, 2014 (Friday)					
May 10, 2014 (Saturday)		-			-
May 11, 2014 (Sunday)		Access Control R	and which it was to be in the second s		.00
May 12, 2014 (Monday)		E II 1: Controle	er Group 1 CP-200 Controller (10:	05:35)	
		III 1.	0.1.D1: Lobby Door -		
May 13, 2014 (Tuesday)		II 1	0.1.02: Door 2		
May 14, 2014 (Wednesday)					
May 14, 2014 (Wednesday)					

**Figure 52 - Select Door Schedules** 

### Creating an Access Control Reader (ACR) Group

- Click on the Access menu and select Door Schedules
- If Controller Groups are being utilized, select the appropriate Controller Group from the drop down pick list.

- Right click in the Access Control Reader Groups Box, and click on Add New ACR Group. Once this has been completed, a new ACR Group will be displayed in the tree titled New ACR Group.
- To modify the name of the ACR Group, highlight the New ACR Group and right mouse click and select Edit Description. This will allow the operator to assign a logical name to the Access Control Reader group such as Interior Doors.

## Selecting Reader(s) to add to an ACR Group

- Click on the Access menu and select Door Schedules.
- Select one (1) or more readers by clicking on the Reader located in the Access Control Reader box. To select all readers click on the Select All button. To deselect all previously selected readers click on the Select None button.
- Once the desired readers have been selected, highlight the appropriate ACR Group, and perform a right click and select Add Selected Readers (s) to ACR Group. This will add all reader(s) selected to the ACR Group.
- Another option to add the readers to the ACR Group is to drag and drop the selected readers. To add the readers to the ACR Group using drag and drop functionality left mouse click on one of the selected readers. A reader icon will display indicating the reader(s) are ready to be dropped onto the appropriate ACR Group. With the left mouse button still selected, drag the mouse on top of the desired ACR Group and release the mouse. The list of reader(s) will be displayed below the ACR Group indicating they have successfully been added.

## Adding ACR Groups / Reader to a Door Schedule Date

- Click on the Access menu and select Door Schedules.
- If Controller Groups are being utilized, select the appropriate Controller Group from the drop down pick list next to Controller Groups.
- Highlight the desired Door Schedule Date that you would like the reader(s) to unlock on from the tree located in the column on the left.
- Highlight the Access Control Reader group from the tree on the right, when selected the ACRG (Access Control Reader Group) will be highlighted in blue.
- Select the appropriate Start Time and End Time. This is time period that the reader(s) will be unlocked.
- Highlight the Door Schedule Date from the tree on the left and perform a right mouse click. Select Add Selected ACR Group. Once this step has been completed the ACR Group will appear below the Door Schedule Date with the associated unlock time.
- Another option to add the reader(s) to the Door Schedule Date is to drag and drop the selected reader(s) / ACR Groups. To add the reader(s) / ACR Groups to a Door Schedule Date using drag and drop functionality left mouse click on one of the selected readers or ACR Groups. A reader icon will display indicating the reader(s) are ready to be dropped onto the appropriate Door Schedule Date. With the left mouse button still selected, drag the mouse on top of the desired Door Schedules Date and release the mouse. The list of reader(s) / ACR Group will be displayed below the Door Schedule Date indicating they have successfully been added. Individual readers added to a Door Schedule Date will be shown with a reader icon to the left of the reader name and associated unlock time interval. ACR Group number, name and associated unlock time.
- Since this is host dependent, no downloads are necessary once the changes have been made.

**Note:** Door Schedule Dates can be programmed for up to a year in advance and repeat for the following years. The Door Schedules list box is arranged with today as the first item in the list.

# Assigning a Time Schedule to a Door Lock

Since a time schedule has been previously created, we can now associate a Door to a time schedule, and have it unlock when the time schedule is active.



Figure 53 – Assigning a Time Schedule to a Door Lock

Follow the steps below to assign a Time Schedule to a Door Lock:

- 1. Navigate to Hardware Manager and Unlock the module.
- 2. From the Device Tree, select the Door that you wish to Unlock on schedule.
- 3. Locate the Time Schedule (Unlock) property, and assign a Time Schedule.
- 4. Click the Save command to update the changes to the database and the controller.

# **GRAPHIC MAPS**

Graphic Maps are used to graphically represent a facility or multiple facilities. This module allows you to graphically zoom in and out of building images, view real-time status of devices, and control devices based on floor plan positioning.

# Importing Graphic Maps

In order to use the Graphic Maps module, a site(s) with a building and floor plans have to be created. To create a site, perform the following:

- 1. Create a Sub-Folder within the Sites Folder found under the following IS2000\Data\Sites Folders. The name of the Sub-Folder will be the name of the Site.
- 2. Place an image file that will represent this Site within the newly created Sub-Folder. Remember the image file must be one of three types: BMP, WMF, or JPG.
- 3. Create a new Sub-Folder within the newly created Sub-Folder that represents the Site. The name of this Sub-Folder will be the name of the Building.
- 4. Place an image file that will represent this Building within the newly created Building Sub-Folder. Remember the image file must be one of the following types: BMP, WMF, or JPG.
- 5. Create a new Sub-Folder within the newly created Sub-Folder that represents the Building. The name of this Sub-Folder will be the name of the first Floor Plan.
- 6. Place an image file that will represent this Floor Plan within the newly created Floor Plan Sub-Folder. Remember the image file must be one of the following types: BMP, WMF, or JPG.

Note: To use the zoom feature on maps, the image must be saved in the WMF format.

- 7. Repeat Steps 5 and 6 for additional Floor Plans.
- 8. Repeat Steps 3 through 7 for additional Buildings with Floor Plans.
- 9. Repeat Steps 1 through 8 for additional Sites, with Buildings and Floor Plans.

## Navigating Graphic Maps

Graphic Maps contain three tabs for easy navigation:

1. "Sites" allows you to view the hierarchical tree generated for a site(s) in the left window and the corresponding building and floor plan images in the right window. The floor plan was selected from the tree on the left to display the floor plan of the building to the right.



#### Figure 54 - Site Navigation

2. "Layers" allow you to view devices under the assigned layers.



Figure 55 - Layers

3. "Plotting" allows you to plot devices from the expanded hardware tree. Select a layer then drag and drop devices directly on the floor plan.



Figure 56 - Plotting

# **Plotting Devices**

To plot devices:

- 1. Unlock the Module
- 2. Go to the Plotting tab.
- 3. Select a layer from the drop down menu.
- 4. Drag and drop devices onto the floor plan. The two Doors with addresses 1.0.0.D1 and 1.0.0.D2 are plotted under the "Door Strikes" layer, note the lock icons on the floor plan.



Figure 57 - Selecting a Layer

- 5. Once a device is plotted, "[X]" appears to the left of the device address.
  - A device cannot be plotted more than once.
  - To remove a device from the floor plan, drag and drop the device back to the hardware tree.

To continue plotting repeat steps 3 and 4.

- 6. Go to "Views". Select layers to view the devices on the floor plan to the right.
- 7. The zoom icon located in the top left of the floor plan window allows you to zoom in (+) and out (-) of the floor plan.

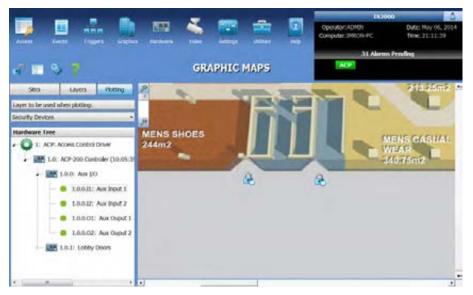


Figure 58 - Floor Plan Zoom

8. Devices can be controlled directly from Graphic Maps. Right-mouse click on the device icon to call up a menu associated with the specific device and select the appropriate function.

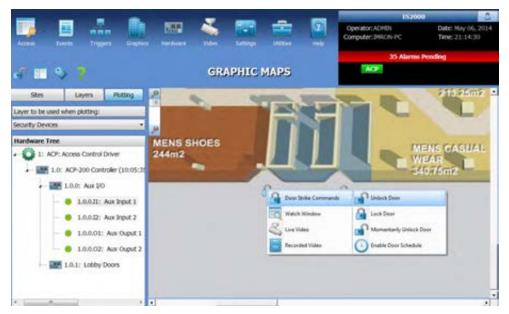


Figure 59 - Real-Time Device Status and Control

# **PROFILE EDITOR**

The Profile Editor is used to edit operator profiles. A profile determines the software layout, including what Software Modules or Commands an operator can access. This is a powerful tool for multi-operators who only need to see a fraction of the database

To go to Profile Editor:

- Click on **Settings** in the Module Toolbar.
- Select **Profile Editor**.

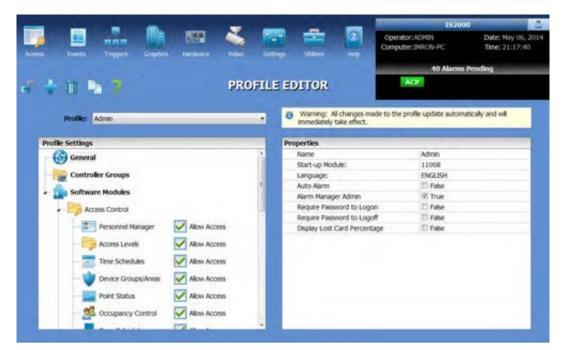


Figure 60 - Profile Editor

### **Profile Editor Command Toolbar**



# **Programming Profiles**

- 1. To modify an existing profile, select a profile from the Profile Editor list.
- 2. To enable a Software Module, check the modules to "Allow Access" in the left window. To disable a module leave the box unchecked "No Access".

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an Denis Dages Dages (ander Wes De	tran Uther Hot	Operator: JOHDI Computer: PIGON PC	Date: May 06, 201 Time: 21:21:54
		47 Aårmo	Pending
PROFIL	E EDITOR	ALC:	
Peoffe: Admin	O Warrung: Al changes ma	de to the profile update autom	utically and will
Admin	mmedately take effect.		
Profile Settings Gard Profile	Properties		
- (C) Grows	Name	Admin	
	Start-up Module:	11008	
Controller Groups	Längsage:	ENGLISH	_
Software Modules	Auto Alarm	CI False 21 True	
	Alarm Manager Admin Require Pastword to Logo		
Access Control	Require Password to Logo		
💷 Personnel Manager 🖌 Alon Acces	Diplay Lost Card Percenta		
		100	
Access Levels 🗹 Allow Access			
Time Schedules 📝 Alow Access			
- 🔮 Device Groups/Weas 🛛 🖓 Albin Access			
- 🔜 Point Status 📿 Alow Access			
🕺 occupancy Control 📝 Allow Access			

**Figure 61 - Edit Existing Profile** 

Various properties are unique for each module. Properties ranging from screen color to database filter can be changed for the profile of the operator.

- 3. Select a module that the operator has access to. This displays the modifiable properties pertaining to the selected module to the right.
- 4. Check the box next to the property (**True**) to make visible or leave the box unchecked (**False**) to keep hidden.

		157000	and the owner where the
a berta rigger bishin kadasa yaka ka		Operator:ACMIN Computer:349705-PC	Cute: Hey 06, 20 Time: 21:31:43
		61 Alartes Pote	ding
🔹 🕇 🛼 🦹 🤒 PROFIL	E EDITOR	ACP	
Profile: Admin +	Warning: Al changes m annodately take effect.	ade to the profile update automotical	ly and mil
Profile Settings	Properties- Personnel Man	ager	
G General	+ Command Buttons:	040+2	
	Unlock	IC True	
Costroller Groups	A55	91 True	1
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	Dukte	18 True	
Access Control	Group Ditt	W True	1
T Personnel Hanager V New Access	Fiel Preven	IC True	
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Access Levels 🗹 Alou Access	+ General		
- 💳 Time Schedules 🛛 Alow Access	Depley Profile Assignment	G Fale	
	D	3225	
🛛 🤍 Device Groups/Areas 📝 Allow Access	Vev	0	
- California Victoria Victoria	Select		
	Sot	4	
🥵 Occupancy Central 🗹 Allow Access	iter Buddadi	[1] False	
	Resecti		

#### **Figure 62 - Edit Properties**

- 5. Scroll down to view more properties for relevant modules. Properties can also be modified to have one of the following options:
  - 0: No Access
  - 1: Read/Write
  - 2: Read Only

#### 3: Mask Field



- 6. To add a New Profile, click on .
  7. To change the name of the profile, select General Options from the left window to display associated properties to the right.
- 8. Select the field next to **Name** under the **Properties** window. Type in the appropriate name.
- 9. Under the **Properties** window associated with **General Options**, program the following properties:
  - <u>Start-up Module</u>- Select the default module that will appear when the current profile is logged on.
  - <u>Language</u>- Select the appropriate language (when applicable).
  - <u>Auto Alarm</u>- Check this box if an operator requires that the IS2000 system immediately goes to Alarm Manager when a new alarm event is received. This is generally used for profiles of operators who will be monitoring system activity.
  - <u>Alarm Manager Admin</u>- Check this box to have a "**Clear all Alarms**" option in the **Operator Comments** window in the Alarm Manager. This feature allows the operator to clear ALL alarms without entering a response.
  - <u>Require Password to Logon</u>- Check this box if a Logon password is required.
  - <u>Require Password to Logoff</u>- Check this box if a Logoff password is required.

10. Follow steps 2-5 to complete profile programming.

# **OPERATORS**

Once a valid profile is defined, the **Operators** module can be used to associate a profile to an operator.

To go to Operators:

- Click on **Settings** in the Module Toolbar.
- Select **Operators**.

admin	
Name	admin
Profile	Admin
Password	*****
Authentication	IS2000 Authentication
Personnel Link	

Figure 63 - Operator

- 1. To add a new operator, select an available operator from the Operator Display List.
- 2. Enter a name for the operator.
- 3. Select a profile for the operator from the list of available profiles.
- 4. Assign a password for the operator.

Note: To delete an operator, select the operator and click on III.

# **ID BADGING**

Badge Designer is an optional application that allows badge templates to be created. Templates can be linked to the Personnel database.

To use the Badge Designer:

- 1. Go to the Help menu from the Navigation toolbar.
- 2. Choose About IS2000.
- 3. Set the ID Badging option to True.
  - Check the ID Badging box. When this is set to **True**, ID Badging is enabled.

Licensing Information		
Computer Name	WEBSERVER-PC	
Serial Number	0000-0000-1682	
Demo Mode	False	
License Type	2048 Door System Server	
Alarm Panels	No Alarm Panels Supported	
ID Badging	True True	
Universal Driver Support	True	
Client Licenses	10 of 5	

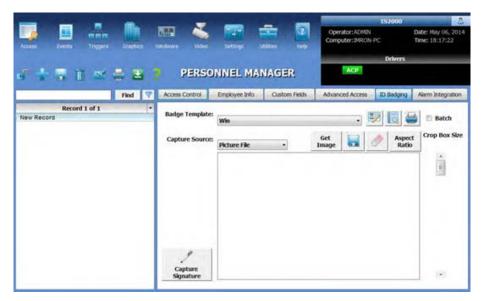
Figure 64 - ID Badging Set to True

**Note**: If the ID Badging Licenses property shows that licenses are not available, please contact your dealer for more information.

# **Badge Designer Interface**

Go to Personnel Manager.

- 1. Select the **ID Badging** Tab.
- 2. Unlock the Module.



**Figure 65 - ID Badging** 

#### **ID Badging Buttons:**

1.	ø	Opens an existing photo.
2.	0	Clears the photo.
3.	ø	Live video.
4.	a g	Video Configurations: Video Format, Video Display, Video Source.
5.	Ľ	Signature Capture.
6.	2	Edits Badge Layout.
7.	2	Badge preview.

#### **ID Badging Drop Down Menu:**

- Crop Box Size- crops photo to desired size.
- **Badge Template** select from a list of badge templates.

To go to Badge Designer, click on the "Edit Badge Designer" button. The badge designer consists of:

- a. Menu
- b. Toolbar
- c. Toolbox
- d. Properties Window
- e. Badge Layout Area

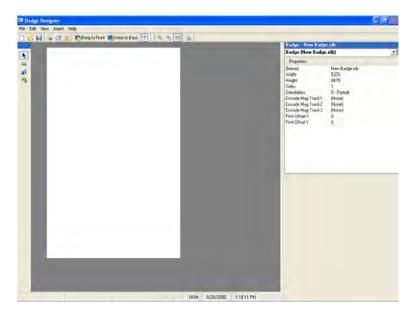


Figure 66 - Badge Designer

The toolban	· contains	the	following	functions:
-------------	------------	-----	-----------	------------

New	Creates new badge template.
🧔 Open	Opens an existing badge template.
🚽 Save	Saves the current badge template.
👆 Cut	Cuts the selected object in the Badge Layout area.
🗊 Сору	Copies the selected object in the Badge Layout area.
📋 Paste	Pastes the copied object in the Badge Layout area.
🔁 Front	Moves the selected object to the top most layer.
🚽 Back	Moves the selected object to the bottommost layer
1 Side1	Displays the front side of the card.
2 Side2	Displays the back side of the card.
🔍 🛛 Zoom In	Zooms in by 50%, only when the view is set to actual size.
🔍 🛛 Zoom Out	Zooms out by 50%, only when the view is set to actual size.
🖩 Show Grid	Toggles the grid display in the Badge Layout area.

The **toolbox** contains the following functions:

<b>►</b> ≊	Pointer Image	When selected, allows objects to be selected in the Badge Layout area. When selected, clicking on the Badge Layout area will cause an Image field to be inserted in the specified position. This command is identical to the Image on the Insert menu.
a <mark>l</mark>	Text	When selected, clicking on the Badge Layout area will cause a Text field to be inserted in the specified position. This command is identical to the Text on the Insert menu.
45	Shape	When selected, clicking on the Badge Layout area will cause an Image field to be inserted in the specified position. This command is identical to the Image on the Insert menu.

### **Properties Window**

The Properties Window allows the viewing and setting of properties associated with the selected object in the Badge Layout Area.

#### **Badge Properties**

Properties associated with the badge.

Properties		
(Name)	New Badge.idb	
Width	5370	
Height	8475	
Sides	1	
Orientation	0 - Portrait	
Encode Mag Track1	(None)	
Encode Mag Track2	(None)	
Encode Mag Track3	(None)	
Print Offset X	50	
Print Offset Y	50	

Figure 67 - Badge Properties

- (Name) The filename of the Badge Template. All files will have an IDB extension.
- Width Width of badge in units of Twips.
- **Height** Height of badge in units of Twips.
- Sides Number of sides the badge has. Choices are from 1 to 2.
- **Orientation** Print orientation of the badge, portrait or landscape.
- Encode Mag Track 1 Magstripe encoding track 1.
- Encode Mag Track 2 Magstripe encoding track 2.
- Encode Mag Track 3 Magstripe encoding track 3.
- **Print Offset X** Number of Twips to offset the badge printout along the X coordinate.
- **Print Offset Y** Number of Twips to offset the badge printout along the Y coordinate.

#### **Image Properties**

Properties associated with an image.

adge.idb
•
Image4
1950
690
2790
4320
90
(None)
Photo
Signature
an object to a database field.

**Figure 68 - Image Properties** 

- (Name) The name used to identify the object.
- Width Width of object.

- **Height** Height of object.
- Left The distance between the left edge of an object and the left edge of the badge. (centimeter \* 100)
- **Top** The distance between the top edge of an object and the top edge of the badge.
- **Picture** The graphic displayed. Choose from existing graphics or newly added graphics.
- **Datalink** A value that binds an object to a database field. The object can be linked to a photo or signature.

#### **Text Properties**

Properties associated with text.

Properties		
(Name)	Text4	
(Name) Caption	New Text	
Width	2775	
Height	375	
Left	2640	
Top	3300	
BorderStyle	0 - (None)	
BackStyle	0 - Transparent	
BackColor	■ %H8000005%	
ForeColor	&H0000000&	
Alignment	0 - Left Justify	
FontName	Arial	
FontSize	12	
FontBold	True	
FontUnderline	False	
FontItalic	False	
Rotation	0	
DataLink		
(Name)		

**Figure 69 - Text Properties** 

- (Name) The name used to identify the object.
- Width Width of object.
- **Height** Height of object.
- Left The distance between the left edge of an object and the left edge of the badge. (centimeter \* 100)
- **Top** The distance between the top edge of an object and the top edge of the badge.
- Font related properties:
  - Border Style
  - Back Style
  - Back Color
  - Fore Color
  - Alignment
  - o Font Name
  - Font Size
  - Font Bold
  - Font Underline
  - Font Italic
  - Rotation
- **Datalink** A value that binds an object to a database field. The object can be linked to numerous fields in the Personnel Manager.

#### **Shape Properties**

Properties associated with a shape.

Badge - New E Shape2 ()	adge.idb		
Properties			
(Name)	Shape2	2	
Width	855		
Height	735		
Left	2220		
Тор	4050		
BackColor	📕 &H8	0000001&	

**Figure 70 - Shape Properties** 

- (Name) The name used to identify the object.
- Width Width of object.
- **Height** Height of object.
- Left The distance between the left edge of an object and the left edge of the badge. (centimeter \* 100)
- **Top** The distance between the top edge of an object and the top edge of the badge.
- Back Color The background color used to display text and graphics in an object.

# Creating a Badge

- a. Add an image by selecting if from the toolbox. When selected is the cursor will change.
- b. Drag the cursor over the Badge Layout Area.
- c. A box will appear.

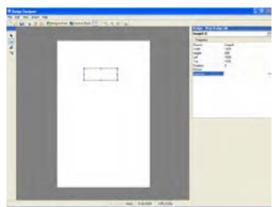


Figure 71 - Creating an Image

- Badge New Badge.idb lmage6 () • Properties (Name) Image6 Width 1950 690 Height 1500 Left Тор 1605 Rotation 0 Picture DataLin (None) Photo Signature DataLink A value that binds an object to a database field.
- 4. Click on DataLink from the properties window. Select Photo.

Figure 72 - Datalink with Photo 1

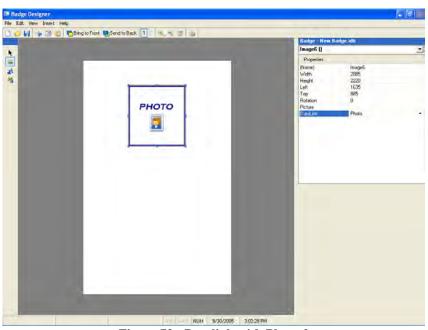


Figure 73 - Datalink with Photo 2

- 5. The badge template will now associate the image with the photos in Personnel Manager.
- 6. Add text by selecting  $\mathbf{a}^{\mathbf{1}}$  from the toolbox. When selected  $\mathbf{a}^{\mathbf{1}}$  the cursor will change.

Badge Designer				- 6
File Edit View Insert Heb				
🗋 💋 🕌 👙 📑 🛐 Pang to Floral 💀 Sand to Back 🚺 💷	5. e 🖗	Badge 123.idb		_
		Fadge 123.idb Text12 []	2	
*		Proprieta		
New Text		Handi Handi Caston Tao BoldeStyle Babl Syle Babl Syle Babl Syle Babl Cole FortSile F	Terl 2 Ken Tel 275 1265 1265 1366 1-Frand Single 1-Transpert And 12 Transpert 12 10 10 10 10 10 10 10 10 10 10	
	NUM 9/30/2005 217.42 PM			

Figure 74 - Adding Text

- 7. In the following example, the First Name, Last Name, Employee ID#, and Department are added to the badge template.
  - a. To add the first name, click on **DataLink** and select **First\_Name**.

🗋 🥥 🖬 🖕 🗇 🙇 🕞 Bring to Front 📮	Send to Back	Badge · 123.idb Text12 ()	
THE SECOND	PHOTO E	Poperina Norrei Coption Width Height Left BackColor BackColor BackColor BackColor Alignment ForeName ForeSide ForeColor Alignment ForeSide Fore	Tent2 Rew Test 2775 1275

Figure 75 - Adding the First Name

- b. To add the last name, select at from the toolbox. Drag the cursor over the Badge Layout Area.
- c. Create a text box right next to the first name text box.
- d. Click on **DataLink** and select **Last\_Name**.

🔄 💋 🔐 🍃 🔿 😫 🦉 Bring to Front. 🔮 Send to Back 👖 🔍 🔩 📾	Hadge 123 db Text13 ()	
New Text New Text	Picpenins (Name) Daption Vidith Hidgit Left Top BuddeSyle BackZolax ForeColor Adground ForeColor Adground ForeColor Fo	Text13 Kimn Text Z72 Z73 Z73 Z75 Z75 Z75 Z75 L-Fixed Strole L-Fixed Strole L-Fixed Strole L-Fixed Strole L-Fixed Strole Code S

Figure 76 - Adding the Last Name

- e. Perform steps b and c to add a new text box.f. Click on **DataLink** and select **Department**.

ont 📑 Send to Back 1 2 4 6 📄 😺	Badge - New Badge. Text8 []	idb
	Properties	
PHOTO       Image: Second state       New Text	Name) Caption Virabi Hingré Left Top BrockStyle BrackStyle BrackStyle BrackStyle BrackStyle BrackStyle Portform	Twell New Test 2075 305 1290 □ - Toarspeert □ - transpeert □ - tr

Figure 77 - Adding the Department

- Perform steps b and c to add a new text box. g.
- h. Click on **DataLink** and select **Custom5.**

	Dudge - New Budge i Text9 ()	db
PHOTO         Image: Sew Text         New Text         New Text         New Text	Copton Wollin Hingist Left. Top BodicSiyle BodiCala BodiSiyle BodiCala BodiSiyle BodiCala Aggrouph Forthana For	Text0 New Text 2950 2950 2950 2950 2950 2950 2950 2950

Figure 78 - Adding Employee ID

**Note: Custom5** is the Employee ID# defined in User Field5 under Custom Fields. To go to Custom Fields, click on the Employee Info Tab in Personnel Manager.

	-		-		152000	
Autora Eventes Taggers Graphes				Operator: ADMIN Computer: DRON-	PC	Date: May 06, 200 Time: 21:40:27
					7 Alarms Peak	ling
7 🕂 🖓 🛯 🛫 🚍 😫 .	PERSO	ONNEL MAI	NAGER			
Find 🖤	Access Control	Employee Info	Custom Fields	Advanced Accesa	ID Badging	Aism Integration
Record 1 of 1						
lew Record	Custom Fields					
	User FieldS:					14
	User Field2:					
	User Field3:					
	User Field4:					
	Sher FieldS:					
	User Fields					
	User Field7:					
	User Fieldik					
	User Field%					1
	User Field10:					
	User Field12:					
	User Field12:					
	User Field13					
	User Field14:					
	User Field15:					
	User Field16:					1.3
	Oser Field17:					

**Figure 79 - Custom Fields** 

8. Use the properties window to format photo and font properties. From the font properties window, format the font size, font bold, and the border style.

**Note**: Other font properties can also be formatted. Double click on the text, to open a properties window. Barcodes and auto size text among other properties can be modified here or from the properties box to the right.

Contraction in the second seco	Badge inton pup Text5 ()	. idb	
PHOTO Deve Text New Text New Text ID# :New Text	Topoline Namoj Copkon Vodin Nagle Do Docisiji BodoSpie BodoColen Financial Alignerit Postisch Postisch Rothlan Disklarit Disklarit Disklarit	Feirs           1240           1420           1420           1420           1580           0-100001           0-10000000           14000000000           14000000000           2-1000000000           2-1000000000           2-1000000000           2-1000000000           2-1000000000           2-1000000000           2-1000000000           2-1000000000           2-1000000000           2-10000000000           2-10000000000           2-10000000000           2-1000000000000000000000000000000000000	

**Figure 80 - Modified Properties** 

- 9. Add company logo. Select is from the toolbox. When selected is the cursor will change.
- 10. Drag the cursor over the Badge Layout Area.
- 11. A box will appear.
- 12. From the properties window, select **Picture** and click on (...) to open the Image Properties window.
- 13. Select the image of interest and click on 💽
- 14. Define the image size and location.

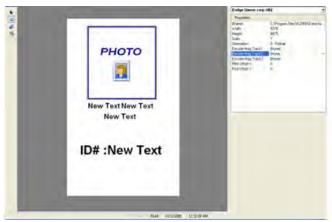


Figure 81 - Adding a Picture 2

- 15. To change the background color, first create a new shape by selecting 45 from the toolbox.
- 16. When selected  $\mathbf{M}$  the cursor will change.
- 17. Drag the cursor over the Badge Layout Area.
- 18. A blue square will appear.



Figure 82 - Creating a Shape

- 19. For this example, we will change the shape color from default blue to yellow. To do so, click on **Back Color** from the object properties window.
- 20. Click on (...), to open a color selection window.
- 21. Select the appropriate color, and press OK.

Note: Custom colors can also be defined.



Figure 83 - Changing BackColor



Figure 84 - Back Color

22. The new back color, yellow, will be used for the background of the new badge template. Extend the shape to nearly cover the badge template.

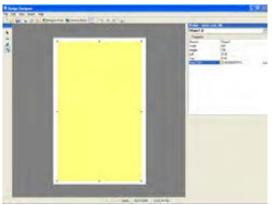


Figure 85 - New Badge Background

- 23. Go to the Toolbar and click on Send to Back. The badge template is complete.
- 24. Go to the Toolbar and click on **Save As**. Type in a name for the newly created badge template.
- 25. The template, with an .idb extension, will be saved in the appropriate location.



Figure 86 - New Badge Template

26. To close the Badge Designer, click File on the Toolbar and select Exit.

- 27. From ID Badging, click on to preview the badge.
  28. If additional formatting is not required, the badge can be printed.



Figure 87 - Badge Preview

# **APPENDIX A - Terms**

TERM	DESCRIPTION
Administrator / Operator	Person who has access and control over the IS2000 system.
ACR	Access Control Reader
ACR Group	Access Control Reader Group
ACL	Access Level
ACP	Access Control Panel
Reader	Device to read a card or other input for access.
SA	Secured Area
SCP	Serial Control Processor
TS	Time Schedule

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