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Introduction and Setup

The iBR9000TM is the latest addition to the Videx data collection family of products. It is a lightweight, portable device that reads *iButtons*[®]. The reader is small enough to fit on a keychain, yet durable enough to withstand repeated drops and harsh environmental operating conditions. The memory can store at least 9,000 button reads before it becomes necessary to download the data.

Applications for the iBR9000 include:

- Security guard tours
- Cell checks and inmate tracking at correctional institutions
- · Transport and container tracking
- · Industrial maintenance rounds
- Fire equipment inspections
- Data collection in agricultural settings

The iBR9000 software is web-based, meaning that the application runs within a browser window. The *iBR9000 EncoderLink* helper application is powered by Java[®], which provides the interface between the software and the hardware.

System and Hardware Requirements

The iBR9000 software requires Windows XP or Vista, or Mac OS X 10.4 or later (Intel processor machines only). Windows machines require a minimum of 512MB of RAM, a 1GHz or faster processor, and 4GB of free disk space.

 $C\,H\,A\,P\,T\,E\,R~~1\\ \mbox{Introduction and Setup}$

Besides a computer that meets the necessary requirements, a functional iBR9000 system must comprise at least one iBR9000, one IR Encoder, and one iButton.

Software Installation - PC

To install the iBR9000 software, insert the application disc into the CD-ROM drive and double-click the *iBR9000-Setup* icon to launch the setup wizard. Once the InstallShield wizard launches, simply follow the prompts given on the screen.

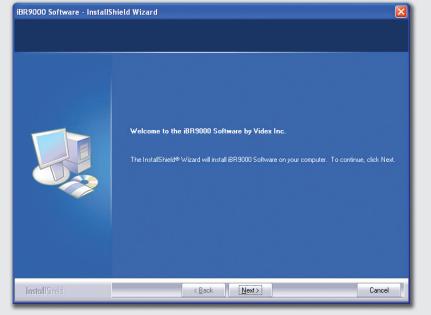
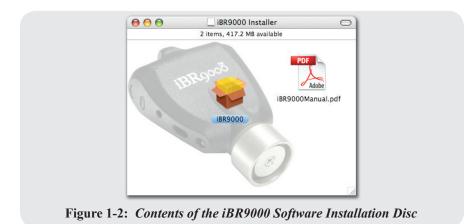


Figure 1-1: Installing the iBR9000 Software

Software Installation - Macintosh

To begin, insert the iBR9000 software installation disc into the computer's CD-ROM drive. A window displaying the contents of the disc will appear automatically.



Double-click the icon for the iBR9000 installer package. The installer will launch and then prompt for confirmation before beginning the installation process. After confirming the install, follow the prompts given on the screen.



Figure 1-3: The iBR9000 Installer with Confirmation Dialog

The default installation location is the *Applications* folder. To launch the iBR9000 software, double-click its icon.



Figure 1-4: The iBR9000 Icon in the Applications Folder

Adding Hardware

In order to view information on iButtons, readers, and audit trails in the software application, the hardware components must be introduced to the system. Once in the system, readers and iButtons may be given meaningful names to make the audit trail data more recognizable.

Using the iBR9000 EncoderLink Software

Adding iButtons to the software is as simple as touching them with an iBR9000 reader and then downloading the data from the reader to the software. Downloading data from iBR9000 readers is accomplished through the use of a helper application and a USB device called the IR Encoder, which uses infrared light to communicate with the reader. The helper application is called *iBR9000 EncoderLink*, and is started by clicking the *Launch* button in the upper right-hand corner of the iBR9000 application window.



Figure 2-1: Reading an iButton

$\begin{array}{c} C\,H\,A\,P\,T\,E\,R \quad 2\\ \text{Adding Hardware} \end{array}$

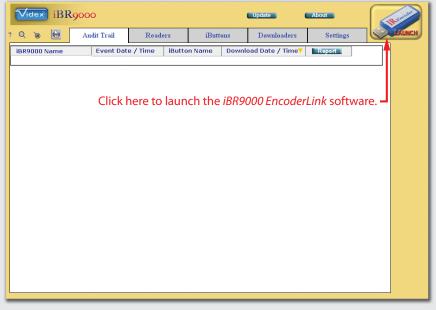


Figure 2-2: Launching the Helper Application

If prompted by the web browser, either save the file to disk or choose to open the application with the Java Web Start Launcher. If available, check the box labeled "*Do this automatically for files like this from now on*" to avoid being prompted every time the application is launched.



Figure 2-3: Web Browser Prompting for Action on File Launch

After the application has been launched, the *iBR9000 EncoderLink* window will appear. It is ready for use when the following message appears:

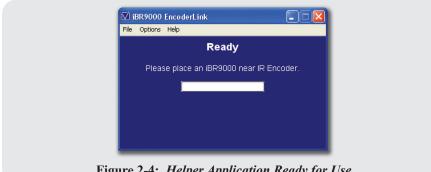


Figure 2-4: Helper Application Ready for Use

 $\begin{array}{c} C\,H\,A\,P\,T\,E\,R \quad 2\\ \text{Adding Hardware} \end{array}$

Place an iBR9000 reader approximately 3 inches from the IR Encoder, as shown in the photo below. The use of a USB extension cable is recommended for convenience.



Figure 2-5: Downloading an iBR9000 Reader

When the IR Encoder detects an iBR9000 reader, it will initiate communication. The reader should remain near the IR Encoder while the communications session is in progress. Messages describing the current operation or status will be displayed by the iBR9000 EncoderLink application. The reader may be removed when the success message shown in Figure 2-9 appears.



Figure 2-6: iBR9000 EncoderLink Downloads iButton Read Events



Figure 2-7: Configuration Information is Transferred to the Reader

🗹 iBR9000 I	EncoderLink	
File Options	Help	
Process	ing iBR9000 config: I	B4603EDF0
	verifying configuration	
Battery volta	age = 2.96	

Figure 2-8: The Software Verifies the Configuration It Transferred



Repeat this process for each iBR9000 reader that will be used with the system. The serial numbers of the readers and all the iButtons they have contacted will automatically be added to the iBR9000 software.

e .	Audit Trail Rea	ders	iButtons	Downloade	ers	Settings	LAUN
3R9000 Name 4 45ACF7D2	Button Reader ID B45ACF7D2	Audit Trail		munication 11 14:04:35	Voltage 2.968	Comm Log]
45F82E08 4603EDF0	B45F82E08 B4603EDF0	Audit Trail		04 13:43:35 06 15:15:00	2.968 2.968	Comm Log	

Figure 2-10: Hardware Displayed in the iBR9000 Application

Alternatively, iButton IDs may be imported from a text file. This process is detailed in the section titled *"The iButtons Tab"* in Chapter 3.

Software Operation

The main page of the iBR9000 software displays audit trail data for the iButton contacts that have been recorded and downloaded from readers. The next three tabs display information pertaining to readers, iButtons, and downloaders. The *Settings* tab contains all the options which specify how the system operates.

The Audit Trail Tab

Under the *Audit Trail* tab, each entry contains the ID or name of the reader that made the iButton contact, the date and time of the contact, the name or ID of the iButton contacted, and the date and time that the event was downloaded to the software. To change the order in which the entries are displayed, click on any of the column headings to sort by that field. Clicking the selected heading more than once will toggle the sort order between ascending and descending order. A yellow triangle appearing in one of the heading cells identifies the current sort key and order.

Q 🔉 🖨	Audit Trail	Readers	iButtons		Downloaders	Settings	LAUNCH
Entries Per Page	200 💌		؇ 🎙 Page 1	of 1 🕨 🖡	•]
iBR9000 Name	Event Dat	e / Time iBi	utton Name	Downlo	ad Date / Time	Report	
B45F82E08	4/4/07 1:	41 PM 01	0000075C4FDF	4/9/0	7 1:43 PM		
B45F82E08	4/4/07 1:	43 PM 01	000003463322	4/9/0	7 1:43 PM	•	
B45F82E08	4/4/07 1:	44 PM 01	0000085B8E62	4/9/0	7 1:43 PM		
B45F82E08	4/4/07 1:		0000075C3C72		7 1:43 PM	•	-
B45F82E08	4/4/07 1:	48 PM 01	0000075CD3C7	4/9/0	7 1:43 PM		
			eading to s ain to char			d.	

Figure 3-1: Selecting a Sort Order

CHAPTER 3 Software Operation

Pagination allows the user to customize the display of audit trail data by selecting the number of events to display at one time. Events are then divided up into pages of the selected size, rather than being displayed all at once in a long list. This helps to maintain good browser performance, since rendering larger pages takes more time.

To use pagination, select a number from the *Entries Per Page* pull-down list, and navigate through the pages using the green arrow buttons. The double arrows (\triangleleft and \triangleright) skip to the first or last page of events, respectively. The single arrows (\triangleleft and \triangleright) flip to the previous or next page in the set.

				Settings			
Entries Per Page 200 🗸 🚳 💜 Page 1 of 1 🕨 🏁							
R9000 Name	Event Date / Time	iButton Name	Download Date / Time7	Report			
5F82E08	4/4/07 1:41 PM	010000075C4FDF	4/9/07 1:43 PM	•			
5F82E08	4/4/07 1:43 PM	01000003463322	4/9/07 1:43 PM				
5F82E08	4/4/07 1:44 PM	010000085B8E62	4/9/07 1:43 PM				
5F82E08	4/4/07 1:46 PM	010000075C3C72	4/9/07 1:43 PM				
5F82E08	4/4/07 1:48 PM	010000075CD3C7	4/9/07 1:43 PM				
-	belect the number o entries per page her		lavigate the pages us hese arrows.	ing			

Rolling the mouse pointer over the blue > icon in any row will cause a pop-up menu to appear, containing options for renaming the listed iBR9000 reader or iButton. Selecting either option will bring up the appropriate *Properties* page, where the item name may be changed. For further information, see the sections titled "*The Readers Tab*" or "*The iButtons Tab*."

🛛 🕲 🙆 Audit Trail	Readers	iButtons	Downloader	s Settings		
Entries Per Page 200 🕑 🦂 💜 Page 1 of 1 🕨 🌬						
0000 Name Event Da	te / Time iButt	on Name	Download Date / 1	ime7 Report		
F82E08 4/4/07 1	:41 PM 0100	00075C4FDF	4/9/07 1:43 PM			
F82E08 4/4/07 1	:43 PM 0100	0003463322	4/9/07 1:43 PM			
F82E08 4/4/07 1	:44 PM 0100	00085B8E62	4/9/07 1:43 PM			
F82E08 4/4/07 1	:46 PM 0100	00075C3C72	4/9/07 1:43 PM			
F82E08 4/4/07 1	:48 PM 0100	00075CD3C7	4/9/07 1:43 PM	Rename iBR		
Roll o	ver an arrow to	o reveal the	pop-up renam	e menu.		

Figure 3-3: Using the Rename Pop-up Menus

Clicking on any of the data cells will filter the displayed entries so that only those for the selected item will be shown. For example, clicking on a particular download date will filter the list so that only events from that date and time are shown.

Q 🔉 🖨	Audit Trail	Readers	iButtons	Downloaders	Settings	LAUNC
Entries Per Page 200 💌 🦂 📢 Page 1 of 1 🕨 🆗						
BR9000 Name	Event Dat	e / Time 🛛 iBul	tton Name	Download Date / Time	Report	
345F82E08	4/4/07 1	41 PM 010	000075C4FDF	4/9/07 1:43 PM	•	
345F82E08	4/4/07 1	43 PM 010	00003463322	4/9/07 1:43 PM		
345F82E08	4/4/07 1		000085B8E62	4/9/07 1:43 PM		
345F82E08	4/4/07 1		000075C3C72	4/9/07 1:43 PM	•	-
345F82E08	4/4/07 1	48 PM 010	000075CD3C7	4/9/07 1:43 PM		
				data cell to view ning the selected		se events

Figure 3-4: Filtering the List by Selecting a Data Cell

When the search/filter mode is active, the 'x' in the center of the `sicon pulses slowly, fading in and out between gray and red. Click this icon to remove filtering from the list (showing all entries again).

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When there are many entries in the system, it can sometimes be difficult to locate the desired item by which to filter the list. In this case, it may be easier to use the software's search mode. Click the @ icon to bring up the *Audit Trail Search* page. Enter search criteria as desired, then click the *Go* button to retrieve the results. The search results will override an active filter.

Videx iBR9000	Update	About	Rent
.			LAUNCH
Audit Trail Search ?			
iBR9000 Name iBR9000 ID Event Date Download Date	iButton Name iButton ID Enter search	n criteria	
Concel Click this button to see the search resul	ts.		

Figure 3-5: The Audit Trail Search Page

Clicking the e or export button will open a new browser window containing a printer-friendly audit report.

Audit Trail Report 9/12/07 1:05 PM 48 events							
iBR9000 Name	Event Date / Time	iButton Name	Download Date / Time				
B45ACF7D2	8/29/07 7:11 AM	0100000546885D	9/11/07 2:04 PM				
B45ACF7D2	8/29/07 6:55 AM	01000006BD4E43	9/11/07 2:04 PM				
B45ACF7D2	8/29/07 6:55 AM	040000003DBAD8	9/11/07 2:04 PM				
B45ACF7D2	8/29/07 6:55 AM	0100000546885D	9/11/07 2:04 PM				
B45ACF7D2	8/29/07 6:55 AM	010000075C533B	9/11/07 2:04 PM				
B45ACF7D2	8/29/07 1:27 AM	01000006BD4E43	9/11/07 2:04 PM				
B45ACF7D2	8/27/07 9:29 AM	0100000546885D	9/11/07 2:04 PM				
B45ACF7D2	8/24/07 2:46 AM	01000002DB1236	9/11/07 2:04 PM				
B45ACF7D2	8/23/07 9:44 AM	010000075C533B	9/11/07 2:04 PM				
B45ACF7D2	8/23/07 9:44 AM	010000035E61D0	9/11/07 2:04 PM				

Figure 3-6: An Audit Trail Report

The Readers Tab

The *Readers* tab displays a list of all the iBR9000 readers which have been added to the system. This list shows reader names, IDs, the date and time the reader was last downloaded, and what the reader's battery voltage was at that time. Like the *Audit Trail* tab, entries may be sorted by clicking on the column headings.

After iButtons and iBR9000 readers have been added to the system, it is helpful to give them meaningful names so that audit trail data from individual components will be easily recognizable.

To rename a reader, select its ID (or current name) from the first column in the list.

ė	Audi	it Trail	Readers	i	Buttons	Downloade	ers	Set	tings	LAUNC
iBR9000 Name B45ACF7D2		Button Rea B45ACF7D	2 Auc	it Trail	2007-09-	munication 11 14:04:35	Volta 2.96	8	Comm Log	=
B45F82E08 B4603EDF0		B45F82E08 B4603EDF0	7.946	it Trail it Trail		04 13:43:35 06 15:15:00	2.96 2.96	-	Comm Log Comm Log	
T										
Click t	ne rea	ader ID	to be cha	nged	ł					

Figure 3-7: Selecting a Reader to Give It a Name

This will bring up a *Properties* page, which lists information about the selected reader. The only editable field on this page is the *Name* field. Enter the desired name, then click the *Save* button.

iBR9000 €	Lipdate About
IBR9000 Properties ? ID B4603EDF0 Name Night Watchman U Software Version 2	Enter a new name here
Save Concel Click the Save button	(Delete)

Figure 3-8: The iBR9000 Properties Page

The new name will be displayed in place of the reader's ID in all lists, audit trails, and communications logs.

Au	dit Trail Read	ders i	Buttons	Downloade	ers	Settings	LAUNCH
BR9000 Name 💦 🔺	Button Reader ID		Last Comm		Voltage		
345ACF7D2	B45ACF7D2	Audit Trail	2007-09-11	14:04:35	2.968	Comm Log	1
345F82E08	B45F82E08	Audit Trail	2007-09-04	13:43:35	2.968	Comm Log	1
light Watchman	B4603EDF0	Audit Trail	2007-09-06	i 15:15:00	2.968	Comm Log	

Figure 3-9: Readers List Showing Renamed iBR9000 Reader

Clicking on the *Audit Trail* button in a reader's row will display an audit report such as the one shown in Figure 3-6, but will include only those events which were recorded by the selected reader. To view a report showing the dates and times when a reader was downloaded, click the *Comm Log* button at the end of the desired reader's row. A new browser window will appear, displaying a report similar to that shown in Figure 3-10.

BR9000 Nigi	9/13/	hman 07 9:01 A 1 events		4603EDF0
Event Date / Time	e Contacts	Voltage	IP Address	Downloader
9/6/07 3:15:10 PM	0	2.968	191.10.1.93	V46CDA2B5
9/6/07 3:14:32 PM	32	2.968	191.10.1.93	V46CDA2B5
9/6/07 3:14:14 PM	32	2.968	191.10.1.93	V46CDA2B5
9/6/07 3:13:07 PM	32	2.968	192.168.1.2	V46CDA2B5

The iButtons Tab

The *iButtons* tab is very simple. It is very similar to the *Readers* tab, but, as iButtons have no batteries and cannot communicate with the software, only the name and ID are shown in the *iButtons* tab, along with an *Audit Trail* button.

6	Audit Trail	Readers	iButtons	Downloaders	Settings	LAUNCH
Button Name	iButton ID	Import		•		
01000002DB1236	01000002DB1236	Audit Trail	~			
01000003463322	01000003463322	Audit Trail				
10000035E61D0	010000035E61D0	Audit Trail				
0100000546885D	0100000546885D	Audit Trail	-			
1000005495359	01000005495359	Audit Trail				
1000006BD4E43	01000006BD4E43	Audit Trail	-			
10000075C3C72	010000075C3C72	AuditTrail				
10000075C4FDF	010000075C4FDF	Audit Trail				
010000075C533B	010000075C533B	Audit Trail	1			
10000075CD3C7	010000075CD3C7	AuditTrail	~			
	<		Σ			

Figure 3-11: The iButtons Tab

Clicking any entry in the *iButton Name* column will bring up the *iButton Properties* page for the selected button. The only editable field on this page is the *Name* field, which may be changed to something which identifies the location or function of the button.

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Update	About	Reserve
		Delete
	Update	Update About

Figure 3-12: The iButton Properties Page

Clicking the *Audit Trail* button in any row will open a new browser window and display an audit trail report for the selected iButton.

(ID	# 0100000 10/1/2007 10 3 even	
Event Date / Time	iBR9000 Name	Download Date Time
9/19/2007 11:46:04	Day Patrol	9/19/2007 11:46:27
9/19/2007 11:39:52	Day Patrol	9/19/2007 11:40:13
9/19/2007 11:39:38	Day Patrol	9/19/2007 11:40:13

To import iButton IDs from a text file, click the **Import** button in the table header to bring up the *Import iButtons* page.

Videx iBR9000	Upd	late	About	Burn
e de la companya de la compa				LAUNCH
Import iButtons ?				
iButtons can be imported into the software from a file. The name (optional). The fields should be space, tab, or comm	e file should have a single li a delimited.	ine per iBut	tton with the ID firs	st, followed by the
Import File:	Browse	ick here	to browse for	the file.
Import Done				
│ Î				
Click here to import the iButton IDs.				
Figure 3-14·	The Import iB	uttons	. Ρ ασρ	

Select the file to be imported by clicking the *"Browse..."* button, then click the *Import* button to read in the iButton IDs it contains.

The Downloaders Tab

The *Downloaders* tab displays information about the devices used to transfer information between the software and iBR9000 readers.

Each row in the *Downloaders* tab displays the assigned name of the associated downloader, its ID, a button which opens the communications log for the downloader, and the downloader type.

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6	Audit Trail	Readers	iButtons	Downloaders	Settings	Research
Downloader Name	Downloader ID		Туре	-		1
V003FBDCE	V003FBDCE	Comm Log	IR Encoder			
V46CDA2B5	V46CDA2B5	Comm Log	IR Encoder			
VB3FDCDE4	VB3FDCDE4	Comm Log	IR Encoder			

Figure 3-15: The Downloaders Tab

The *Downloader Properties* page may be accessed by clicking the *Downloader Name* cell of the desired downloader. The only editable field on this page is the *Name* field, which may be changed to something that helps identify the location where downloads using the selected device occur.

Videx iBR9000	Update	About	Read
Downloader Properties			LAUNCH
ID V003FBDCE Name Security Office			
Save Cancel			Delete

Figure 3-16: The Downloader Properties Page

Clicking the *Comm Log* button in any row will open a new browser window which displays a report of communication events involving the selected downloader.

Communication Log for Downloader Security Office (ID # V003FBDCE) 10/3/2007 14:15:35 11 events								
Event	Reader	Event Date / Time	Download Date / Time					
iBR9000 File Downloaded	Day Patrol (B45ACFD72)	9/19/2007 11:46:20	9/19/2007 11:46:32					
iBR9000 Configured	Day Patrol (B45ACFD72)	9/19/2007 11:46:28	9/19/2007 11:46:32					
iBR9000 File Downloaded	Day Patrol (B45ACFD72)	9/19/2007 11:40:14	9/19/2007 11:46:27					
iBR9000 Configured	Day Patrol (B45ACFD72)	9/19/2007 11:40:14	9/19/2007 11:40:18					
iBR9000 File Downloaded	Day Patrol (B45ACFD72)	9/19/2007 11:40:06	9/19/2007 11:40:18					
iBR9000 File Downloaded	Day Patrol (B45ACFD72)	9/19/2007 11:39:18	9/19/2007 11:40:13					
iBR9000 Configured	Day Patrol (B45ACFD72)	9/19/2007 11:39:18	9/19/2007 11:39:22					
iBR9000 File Downloaded	Day Patrol (B45ACFD72)	9/19/2007 11:44:22	9/19/2007 11:39:22					
iBR9000 File Downloaded	Day Patrol (B45ACFD72)	9/17/2007 16:43:50	9/19/2007 11:39:17					
iBR9000 File Downloaded	Day Patrol (B45ACFD72)	9/17/2007 16:43:04	9/19/2007 11:39:17					
iBR9000 Configured	Day Patrol (B45ACFD72)	9/17/2007 16:43:50	9/19/2007 11:39:17					

Figure 3-17: A Downloader Communication Log

The Settings Tab

Located under the *Settings* tab are various options which affect the operation of the software, as well as some settings which affect the behavior of iBR9000 readers.

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Videx iBI	29000			Update	About	Remain
?	Audit Trail	Readers	iButtons	Downloaders	Settings	LAUNCH
Settings					-	
Preferences		E	xport Format			
Date Format	Order Month- Separator / Digits in year 2 💌		 TouchProbe form Text format as format as format as format as format as format as the order of the trange them in order to the format as the form	ollows (.txt) text file data to exp	ort	Date / Time on Name rtton ID
Time Format 💿	12-hour clock 🔘 24	fr	rom the top of the list elow the cutoff line w	to the bottom. Any i	iBR90	000 Name 9000 ID
Errors	Trim DB		ext File Delimiter 🕽 Tab 💿 Comma 🔇	Snace		ader Name
iBR9000 Behavio					Down	iloader ID
Repeat	Beeper 💿 On contact delay 2 seco					lloader IP
Data Export						
✓ Write Audit Tra Export file path		Test	-	ll downloaded inforr E	mation newer than a ixport Now	a given date.
Apply Cancel						

Figure 3-18: The Settings Tab

The formatting options in the *Preferences* section affect the manner in which dates and times are displayed throughout the pages of the software and in reports. Changing these options only affects the display of the data, not the data itself.

Videx iBR9000			Update	About	Real		
? Audit Trail Readers		iButtons	Downloaders	Settings	LAUNCH		
Settings				-			
Preferences	E	xport Format					
Date Format Order Month-Day-Year V Separator / V Digits in year 2 V	To	 TouchProbe form Text format as a set the order of the trange them in order format as a set the forma	ollows (.txt) text file data to exp	iButto	tate / Time on Name tton ID		
Time Format I2-hour clock 24-hour clock Errors Trim DB Backup DB	fro be	om the top of the list slow the cutoff line w ext File Delimiter) Tab	to the bottom. Any i ill not be included.	items iBR90 iBR9	00 Name 9000 ID ader Name		
iBR9000 Behavior Beeper On Off					loader ID loader IP		
				CI	utoff		
Repeat contact delay 2 seconds							

Figure 3-19: The Settings Tab - Preferences Section

Whenever an error occurs in the software, it is recorded in a special log file. After a period of time, these error logs are compressed and archived, and a new log is generated. If the software is not functioning properly, reviewing the error logs may help determine the cause of the problem. Clicking the *Errors* button on the *Settings* page will bring up the *Errors/Log Files* page, where the logs are available for download. These pages are shown in Figure 3-20.

	Audit Trail	Readers	iButtons	Downloaders	Se	ttings	LAUNCH
Settings							
Preferences		F	xport Format				
Date Format	Order Month-Day-Ye		O TouchProbe for	mat(tmd)			
	Separator / 💌		Text format as				ate / Time
	ts in year 2 💌	т.	set the order of the	taut file data to au			n Name
Digi		ar	range them in order	(by dragging entrie	s) 🗆	iBut	ton ID
Time Format 💿 12	-hour clock 🔘 24-hour	clock be	om the top of the list low the cutoff line v	to the bottom. Any vill not be included.	items	iBR900	00 Name
Errors	rim DB Ba	ckup DB Te	xt File Delimiter			iBR9	000 ID
		<u> </u>	Tab 💿 Comma	Space		Downloa	der Name
iBR9000 Behavior	Beener O e					Downle	oader ID
Bapart cor	Beeper 💿 On 🔘 Of tact delay 2 seconds	T				Downle	oader IP
Repeat con	rarraelay z seconas					CU	toff
Data Export							
🗹 Write Audit Trail	data to file in:		Export a	all downloaded infor	mation ne	wer than a	given date.
Export file path C		Test	<u>ר</u>		Export Nov		
Exportine pacing.		Test					
	outton to view log	s of syster	n errors.				
Apply Cancel							
	9000			Update)	Abou		
	9000			Update	Abou	-	Berne
Videx) iBR	9000			Update	Abou	-	
ė)000 ?			Update	Abou	-	Reference of the second
Errors / Log Files Log File	? Modified Date	Size		Update	Abou		Launce
Errors / Log Files Log File catalina.out.3.gz	? Modified Date 9/16/2007 04:02:0:	2 2.2 KB					LAUNC
Errors / Log Files Log File catalina.out.3.gz catalina.out.4.gz	? Modified Date 9/16/2007 04:02:02 9/9/2007 04:02:02	2 2.2 KB 1377 By		g files contain info	rmation	about the	
Errors / Log Files Log File catalina.out.3.gz catalina.out.4.gz catalina.out.5.gz	? Modified Date 9/16/2007 04:02:02 9/9/2007 04:02:02 9/2/2007 04:02:02	2 2.2 KB 1377 By 1517 By	tes running s		rmation wn of the	about the Java serv	let service
Errors / Log Files Log File catalina.out.3.gz catalina.out.4.gz catalina.out.5.gz catalina.out.6.gz	? Modified Date 9/16/2007 04:02:02 9/9/2007 04:02:02	2 2.2 KB 1377 By 1517 By 2 1248 By	tes running s tes (either J	g files contain info tate, and shutdox atty or Tomcat) th	ormation wn of the nat runs t	about the Java serv his applica	let service ation.
Errors / Log Files Log File catalina.out.3.gz catalina.out.4.gz catalina.out.6.gz catalina.out.6.gz catalina.out	? Modified Date 9/16/2007 04:02:02 9/9/2007 04:02:02 9/2/2007 04:02:02 8/26/2007 04:02:02	2 2.2 KB 1377 By 1517 By 2 1248 By 6 8.7 KB	tes running s tes (either J Errors th) files contain info tate, and shutdos	rrmation wn of the nat runs t gged in t	about the Java serv his applica hese files.	let service ation. Check the file
Errors / Log Files Log File catalina.out.3.gz catalina.out.4.gz catalina.out.5.gz catalina.out.6.gz catalina.out.1.gz	? Modified Date 9/16/2007 04:02:02 9/9/2007 04:02:02 9/2/2007 04:02:02 8/26/2007 04:02:03 10/4/2007 08:18:33	2 2.2 KB 1377 By 1517 By 2 1248 By 6 8.7 KB 2 1241 By	tes running s tes (either J Errors th tes modifica	g files contain info tate, and shutdor atty or Tomcat) th at occur will be lo	rrmation wn of the nat runs t gged in t	about the Java serv his applica hese files.	let service ation. Check the file
Errors / Log Files Log File catalina.out.3.gz catalina.out.4.gz catalina.out.6.gz catalina.out.6.gz catalina.out.1.gz catalina.out.1.gz catalina.out.2.gz	? Modified Date 9/16/2007 04:02:0: 9/9/2007 04:02:02 9/2/2007 04:02:02 8/26/2007 04:02:0 10/4/2007 08:18:3 9/30/2007 04:02:0:	2 2.2 KB 1377 By 1517 By 2 1248 By 6 8.7 KB 2 1241 By	tes running s tes (either J Errors th tes modifica	g files contain info tate, and shutdor atty or Tomcat) th at occur will be lo	rrmation wn of the nat runs t gged in t	about the Java serv his applica hese files.	let service ation. Check the file
Errors / Log Files Log File catalina.out.3.gz catalina.out.4.gz catalina.out.5.gz catalina.out.6.gz catalina.out.1.gz	? Modified Date 9/16/2007 04:02:0: 9/9/2007 04:02:02 9/2/2007 04:02:02 8/26/2007 04:02:0 10/4/2007 08:18:3 9/30/2007 04:02:0:	2 2.2 KB 1377 By 1517 By 2 1248 By 6 8.7 KB 2 1241 By	tes running s tes (either J Errors th tes modifica	g files contain info tate, and shutdor atty or Tomcat) th at occur will be lo	rrmation wn of the nat runs t gged in t	about the Java serv his applica hese files.	let service ation. Check the file
Errors / Log Files Log File catalina.out.3.gz catalina.out.4.gz catalina.out.6.gz catalina.out.6.gz catalina.out.1.gz catalina.out.1.gz catalina.out.1.gz	? Modified Date 9/16/2007 04:02:02 9/9/2007 04:02:02 9/2/2007 04:02:02 8/26/2007 04:02:02 10/4/2007 08:18:33 9/30/2007 04:02:03	2 2.2 KB 1377 By 1517 By 2 1248 By 6 8.7 KB 2 1241 By	tes running s tes (either J Errors th tes modifica	g files contain info tate, and shutdor atty or Tomcat) th at occur will be lo	rrmation wn of the nat runs t gged in t	about the Java serv his applica hese files.	let service ation. Check the file
Errors / Log Files Log File catalina.out.3.gz catalina.out.4.gz catalina.out.6.gz catalina.out.6.gz catalina.out.1.gz catalina.out.1.gz catalina.out.2.gz	? Modified Date 9/16/2007 04:02:02 9/9/2007 04:02:02 9/2/2007 04:02:02 8/26/2007 04:02:02 10/4/2007 08:18:33 9/30/2007 04:02:03	2 2.2 KB 1377 By 1517 By 2 1248 By 6 8.7 KB 2 1241 By	tes running s tes (either J Errors th tes modifica	g files contain info tate, and shutdor atty or Tomcat) th at occur will be lo	rrmation wn of the nat runs t gged in t	about the Java serv his applica hese files.	let service ation. Check the file
Catalina.out.3.gz catalina.out.3.gz catalina.out.4.gz catalina.out.6.gz catalina.out.c.gz catalina.out.c.gz catalina.out.1.gz catalina.out.2.gz	? Modified Date 9/16/2007 04:02:0: 9/9/2007 04:02:02 8/22007 04:02:02 8/26/2007 04:02:02 10/4/2007 08:18:33 9/30/2007 04:02:03 9/23/2007 04:02:03 9/2007 04:02:03 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:05 9/2007 04:05 9/	2 2.2 KB 1377 By 1517 By 2 1248 By 6 8.7 KB 2 1241 By 2 1313 By	tes running (either J Errors th modifica tes	g files contain info tate, and shutdor atty or Tomcat) th at occur will be lo	rrmation wn of the nat runs t gged in t	about the Java serv his applica hese files.	let service ation. Check the file
Catalina.out.3.gz catalina.out.3.gz catalina.out.4.gz catalina.out.6.gz catalina.out.c.gz catalina.out.c.gz catalina.out.1.gz catalina.out.2.gz	? Modified Date 9/16/2007 04:02:02 9/9/2007 04:02:02 9/2/2007 04:02:02 8/26/2007 04:02:02 10/4/2007 08:18:33 9/30/2007 04:02:03	2 2.2 KB 1377 By 1517 By 2 1248 By 6 8.7 KB 2 1241 By 2 1313 By	tes running (either J Errors th modifica tes	g files contain info tate, and shutdor atty or Tomcat) th at occur will be lo	rrmation wn of the nat runs t gged in t	about the Java serv his applica hese files.	let service ation. Check the file
Catalina.out.3.gz catalina.out.3.gz catalina.out.4.gz catalina.out.6.gz catalina.out.c.gz catalina.out.c.gz catalina.out.1.gz catalina.out.2.gz	? Modified Date 9/16/2007 04:02:0: 9/9/2007 04:02:02 8/22007 04:02:02 8/26/2007 04:02:02 10/4/2007 08:18:33 9/30/2007 04:02:03 9/23/2007 04:02:03 9/2007 04:02:03 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:05 9/2007 04:05 9/	2 2.2 KB 1377 By 1517 By 2 1248 By 6 8.7 KB 2 1241 By 2 1313 By	tes running (either J Errors th modifica tes	g files contain info tate, and shutdor atty or Tomcat) th at occur will be lo	rrmation wn of the nat runs t gged in t	about the Java serv his applica hese files.	let service ation. Check the file
Catalina.out.3.gz catalina.out.3.gz catalina.out.4.gz catalina.out.6.gz catalina.out.c.gz catalina.out.c.gz catalina.out.1.gz catalina.out.2.gz	? Modified Date 9/16/2007 04:02:0: 9/9/2007 04:02:02 8/22007 04:02:02 8/26/2007 04:02:02 10/4/2007 08:18:33 9/30/2007 04:02:03 9/23/2007 04:02:03 9/2007 04:02:03 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:05 9/2007 04:05 9/	2 2.2 KB 1377 By 1517 By 2 1248 By 6 8.7 KB 2 1241 By 2 1313 By	tes running (either J Errors th modifica tes	g files contain info tate, and shutdor atty or Tomcat) th at occur will be lo	rrmation wn of the nat runs t gged in t	about the Java serv his applica hese files.	let service ation. Check the file
Catalina.out.3.gz catalina.out.3.gz catalina.out.4.gz catalina.out.6.gz catalina.out.cs.gz catalina.out.cs.gz catalina.out.1.gz catalina.out.1.gz catalina.out.2.gz	? Modified Date 9/16/2007 04:02:0: 9/9/2007 04:02:02 8/22007 04:02:02 8/26/2007 04:02:02 10/4/2007 08:18:33 9/30/2007 04:02:03 9/23/2007 04:02:03 9/2007 04:02:03 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:05 9/2007 04:05 9/	2 2.2 KB 1377 By 1517 By 2 1248 By 6 8.7 KB 2 1241 By 2 1313 By	tes running (either J Errors th modifica tes	g files contain info tate, and shutdor atty or Tomcat) th at occur will be lo	rrmation wn of the nat runs t gged in t	about the Java serv his applica hese files.	let service ation. Check the file
Catalina.out.3.gz catalina.out.3.gz catalina.out.4.gz catalina.out.6.gz catalina.out.cs.gz catalina.out.cs.gz catalina.out.1.gz catalina.out.1.gz catalina.out.2.gz	? Modified Date 9/16/2007 04:02:0: 9/9/2007 04:02:02 8/22007 04:02:02 8/26/2007 04:02:02 10/4/2007 08:18:33 9/30/2007 04:02:03 9/23/2007 04:02:03 9/2007 04:02:03 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:02:05 9/2007 04:05 9/2007 04:05 9/	2 2.2 KB 1377 By 1517 By 2 1248 By 6 8.7 KB 2 1241 By 2 1313 By	tes running (either J Errors th modifica tes	g files contain info tate, and shutdor atty or Tomcat) th at occur will be lo	rrmation wn of the nat runs t gged in t	about the Java serv his applica hese files.	let service ation. Check the file

$CHAPTER \ 3 \\ Software \ Operation$

While errors are automatically archived, normal events in the database must be manually removed and stored. This process is called *trimming the database*. The user enters a specific date, and all events occurring before that date will be removed from the database and written to a file named with the current date. To bring up the *Trim Database* page, click the *Trim DB* button on the *Settings* page, as shown in the top image of Figure 3-21.

Videx iBR9000		Update	About	Remain			
? Audit Trail Readers	iButtons	Downloaders	Settings	LAUNCH			
Settings			-				
Preferences	Export Format						
Date Format Order Month-Day-Year 💌	O TouchProbe for		Event	Date / Time			
Separator / 💌	Text format as f	ollows (.txt)		ton Name			
Digits in year 2 💌	To set the order of the		ort	utton ID			
	arrange them in order from the top of the list	to the bottom. Any	s)	000 Name			
Time Format 💿 12-hour clock 🔘 24-hour clock	below the cutoff line w	ill not be included.		89000 ID			
Errors Trim DB Backup DB	Text File Delimiter						
iBR9000 Behavior	🔘 Tab 💿 Comma 🔇) Space		bader Name			
Beeper On Off				nloader ID			
Repeat contact delay 2 seconds 💌				nloader IP			
	1		(cutoff			
Data Export							
Write Audit Trail data to file in:		ll downloaded infor		a given date.			
Export file path c:\te t	Test	LE	xport Now				
Click this button to trim t	the database						
Apply Cancel	the database.						
Videx iBR9000		Update	About				
b				LAUNCH			
Trim Database ? Trim Database can be trimmed to remove events with an event date older than the given date. Trimmed data can also be restored from any of the listed files by clicking on the restore button. The trim files are stored in C:\Documents and Settings\jeffb\iBR9000 DB Trims Click on the trim button to create a new file or append to an existing file called 20080916-ibr-trim.bin Trim Date I Jun I Trim Click this button to perform the trim. Trim File Modified Date Size Specify the cutoff date here.							
This software's database can be trimmed to remove ex- restored from any of the listed files by clicking on the The trim files are stored in C:\Documents and Settings Click on the trim button to create a new file or append Trim Date 1 v Jan v Trim File Modified Date Size	restore button. ()effb\iBR9000 DB Trin to an existing file called Trim Cl	15 20080916-ibr-trin ick this button	ı.bin				
This software's database can be trimmed to remove ex- restored from any of the listed files by clicking on the The trim files are stored in C:\Documents and Settings Click on the trim button to create a new file or append Trim Date 1 v Jan v Trim File Modified Date Size	restore button. ()effb\iBR9000 DB Trin to an existing file called Trim Cl	15 20080916-ibr-trin ick this button	ı.bin				

Figure 3-21: The Settings and Trim Database Pages - Trimming Entries

To restore trimmed entries to the visible database, click the *Restore* button in the row of the appropriate trim file.

Videx iBR9000	c	Update	About	Remain				
e				LAUNCH				
Trim Database ?								
	can be trimmed to remove events v sted files by clicking on the restore		an the given date. Tri	mmed data can also be				
,	C:\Documents and Settings\jeffb							
Click on the trim button to	create a new file or append to an e	existing file called 200809	17-ibr-trim.bin					
Tri	im Date 15 🔽 Sep 🔽 2008 🚺	Trim						
Trim File	Modified Date	Size						
20080917-ibr-trim.bin	9/17/2008 11:22:56 AM	Restore 346	Bytes Delete					
		Click this butt	an to roctoro trir	nmod ontrioc				
	Click this button to restore trimmed entries.							
Done								
Done								
Done								

A complete backup of the database is performed automatically by the application when it is started for the first time on any day. These backups are written to files named with the convention " $\langle day \rangle$ -*ibr-backup.ibk*", where $\langle day \rangle$ is a three-letter abbreviation for the current day of the week.

Additional backup files may be created manually. Manual backup files are named with the convention "*YYYYMMDD-HHmm-SS-ibr-backup.ibk*" to distinguish them from the backup files created automatically by the software. The *YYYYMMDD-HHmm-SS* string corresponds to the date and time at which the manual backup file was created.

To view the *iBR9000 Database Backup Files* page, where backup files may be viewed and created, click the *Backup DB* button on the *Settings* page.

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Videx iBR9000	þ			Update	About	Repair
? Au	lit Trail	Readers	iButtons	Downloaders	Settings	LAUNCH
Settings						
Preferences			Export Format			
Date Format Or	der Month-D	Day-Year 💌	O TouchProbe for	mat (.tmd)	E	Data (Time
Separa	ator /	*	💿 Text format as	follows (.txt)		Date / Time
Digits in y	ear 2 💌	,	o set the order of the	text file data to ex	(port	tton Name
		a	rrange them in order rom the top of the list	(by dragging entri	ies)	Button ID
Time Format 💿 12-hour	clock 🔘 24	-hour clock	elow the cutoff line v		. IBKa	9000 Name
Errors Trim DB		Backup DB T	ext File Delimiter			R9000 ID
			🔘 Tab 💿 Comma	O Space		loader Name
iBR9000 Behavior Be	eper 💿 On	0.0#			Dow	vnloader ID
Repeat contact d					Dow	Inloader IP
						cutoff
Data Export						
🗹 Write Audit Trail data t	o file in:		Export	all downloaded info	ormation newer than	a given date.
Export file path C:\test		Tes	t	0	Export Now	
Videx iBR9000	2			Update	About	
	0			opune	About	LAUNCH
iBR9000 Database Back This program's data is back Click on the backup button	ked up to C:1				bk Backup	
Backup File	Modified Da	nte	Size		1 T	
wed-ibr-backup.ibk	9/17/2000	3 09:14:35 AM	90.4 KB	Delete	Click this	s button to
tue-ibr-backup.ibk	9/16/2008	3 08:44:07 AM	90.3 KB	Delete	backup	the database.
mon-ibr-backup.ibk	9/15/2000	3 10:26:06 AM	89.1 KB	Delete		
Done				Click this but	ton to delete a	backup file.

Figure 3-23: The Settings and iBR9000 Database Backup Files Pages

The settings in the *iBR9000 Behavior* section of the *Settings* page, shown in Figure 3-24, affect all of the iBR9000 readers used with the system. Any changes made to these settings will be transferred to each reader the next time it is downloaded. The *Beeper* setting toggles the tones emitted by readers on or off. The *Repeat contact delay* setting specifies how much time must elapse before readers will record a second contact of the same iButton.

Videx iBR	19000			Update	About	Burner
?	Audit Trail	Readers	iButtons	Downloaders	Settings	LAUNCH
Settings		•		•	•	
Preferences			Export Format			
Date Format	Order Month-	Day-Year 💌	O TouchProbe for		Event D	Date / Time
	Separator /	¥	Text format as f	ollows (.txt)	iButto	on Name
Di	igits in year 🛛 2 💌		o set the order of the rrange them in order			tton ID
Time Format 💿 12-hour clock 🛇 24-hour clock			rom the top of the list elow the cutoff line w	to the bottom. Any it	tome	00 Name
			elow die catori lille w	in not be included.	iBR	9000 ID
Errors	Trim DB		ext File Delimiter	<u> </u>	Downlo	ader Name
iE	3R9000 Behavior		🔾 Tab 💿 Comma 🔇) Space	Down	loader ID
	Beeper 💿 O	n 🔾 Off			Down	loader IP
Repeat c	contact delay 10 se	econds 💌			c	utoff
Data Export						
🗹 Write Audit Tra	il data to file in:		Export a	ll downloaded inform	nation newer than a	a given date.
Export file path	c:\test	Test	t	E	xport Now	
L						
Apply Cancel						

Figure 3-24: The Settings Tab - iBR9000 Behavior Section

The *Export Format* and *Data Export* sections of the *Settings* page work in tandem to allow the user to create a data set for use with existing TouchProbe[®] tools or other custom applications and reporting tools.

The type of the created file is determined by the options selected in the *Export Format* section. TouchProbe files have a pre-defined format, but text files may be customized. Select a delimiter to separate the fields, then specify which fields should be included. The fields, and their order, can be set by dragging the boxes on the right side of the section into the desired locations, as shown in Figure 3-25. Any fields which are arranged after the box labeled "----*cutoff*-----" will not be included in the exported data file.

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Videx iBR9000			Update	About	Read
? Audit Trail	Readers	iButtons	Downloaders	Settings	LAUNCH
Settings				-	
Preferences	E	xport Format			
Date Format Order Mont-Da Separator 2 Digits in year 2 Time Format © 12-hour clock © 24-F Errors Trim DB BR9000 Behavior Beeper © on C Repeat contact delay 2 second	our clock	 TouchProbe form Text format as for set the order of the ist range them in order (om the top of the list low the cutoff line w text File Delimiter Tab Comma Comma 	ollows (.txt) text file data to expo (by dragging entries to the bottom. Any it ill not be included.	iButtor) iBento iBP800 iBP80 iBP800 iBP800 iBP800 iBP80 iBP800 iBP80 iBP800 iBP8	ate / Time I Name I0 Name O00 ID Oder Name toff pader ID pader ID Dader ID Dad
Data Export Write Audit Trail data to file in: Export file path c:\Vest Apply_ Cance	Test		ll downloaded inform	nation newer than a kport Now	given date.

Figure 3-25: The Settings Tab - Export Format Section

The *Data Export* section of the *Settings* page includes options for both automatic and manual export of audit data from the database to a separate file.

To automatically export data, check the box labeled "*Write Audit Trail data to file in:*" and specify a path to a folder in the "*Export file path*" text box. Audit data will be appended to the file as events are downloaded from iBR9000 readers.

Videx iBI	29000			Update	About
?	Audit Trail	Readers	iButtons	Downloaders	Settings
Settings					
Preferences			xport Format		
Date Format	Order Month-	Day-Year 💌	O TouchProbe for		Event Date / Time
	Separator /	¥	Text format as f	ollows (.txt)	iButton Name
L C)igits in year 🛛 2 💌		o set the order of the		
Time Format 💿	12-hour clock 0 2	fi	rrange them in order om the top of the list elow the cutoff line w	to the bottom. Any it	5] []
			elow die catori line w	nn not be included.	iBR9000 ID
E	rrors Trim DB	, II	ext File Delimiter	~	Downloader Name
iBR9000 Behavi			🔾 Tab 💿 Comma 🔇	Space	Downloader ID
	Beeper 💿 On				Downloader IP
Repeat	contact delay 2 seco	nds 💌			cutoff
Data Export					
🛛 Write Audit Tr	ail data to file in:		Export a	ll downloaded inform	nation newer than a given date.
Export file path	c:\test	Test		E	xport Now
L					•
Apply Cancel					-
Check this bo	x for				Click this button for
automatic dat					manual data export.
	Figure 3-2	26: The So	ettings Tab ·	- Data Exp	ort Section

To manually export data, click the *Export Now* button to bring up the *Export Downloaded Events* page. A folder path and filename must be specified, as well as a starting date and time. Events occurring after the specified date and time will be written to the export file.

$\begin{array}{c} C\,H\,A\,P\,T\,E\,R \quad 3\\ \text{Software Operation} \end{array}$

iBR9000	Update	About	Remain
Export Downloaded Events ?			
Audit Trail data can be exported in the format specified on the Sett date/time below and all events downloaded after that time will be	ings tab (either text forma saved to the specified file.	t or Touch Probe for	mat). Choose a
Export Folder C:\Data Export File Name iBR_Events Download Date 1 2007 08 Go Cancel		a path and file	ename here.
Specify a starting date and	d time here.		
Figure 3-27: Manua	l Data Export	Options	

Help and Support

Help pages are available within the iBR9000 application. If the information available on these pages is not sufficient to answer any questions, please contact Videx Technical Support:

Phone: (541) 758-0521 Email: support@videx.com

Context Help

Most pages within the iBR9000 application contain a hyperlink in the shape of a question mark in the upper left hand corner of the page. When clicked, this link will open a small browser window containing helpful hints about items on the current page.

Image: Setting settin	Videx iBR90	000			Update	About	Rena
V003FBDCE V003FBDCE Comm Log IR Encoder V46CDA2B5 V46CDA2B5 Comm Log IR Encoder VB3FDCDE4 VB3FDCDE4 Comm Log IR Encoder	? 🖻	Audit Trail	Readers	iButtons	Downloaders	Settings	LAUNCH
	V003FBDCE V46CDA2B5	V003FBDCE V46CDA2B5	CommLog	IR Encoder IR Encoder			
	Click this link to vio	ew context hel	p.				

Figure 4-1: A Context Help Link

Occasionally, the hyperlink will appear next to the page title.

Videx iBR9000		Update	About	LAUNCH
Import iButtons () - Click this link to view	v context help.			
iButtons can be imported into the software from a file. The name (optional). The fields should be space, tab, or comm	e file should have a sing a delimited.	jle line per iBu	tton with the ID first	, followed by the
Import File:	Browse			
[Import] Done				
Figure 4-2: A Context Help Link				

Software Updates

The ability to find and download updates to the iBR9000 software is built into the application. To display the *Update Software* page, click the **update** button from anywhere within the application.

Videx iBR9000		Update	About	Repart
Update Software ? The iBR9000 Software can be o If this machine is on the interne then click on the "Download" b	t. click on the "Check Now" butto	n to check to see if an update i:	s available. If an upd	ate is found, you can
Operation: Check Now Result: Done Click) Download ← If an up	odate is found, click thi	s button to dow	vnload it.
ŀ	igure 4-3: Check	ing for Software	Updates	

Customer Support Policy

Videx has a commitment to provide excellent customer support. In the event you experience any problems with Videx equipment, please contact the Videx Technical Support Department and our technicians will assist you:

> Phone: (541) 758-0521 Fax: (541) 752-5285 E-mail: support@videx.com Web: www.videx.com

If, after contacting Technical Support, it has been determined that a product is to be returned, please carefully pack the product, together with your purchase receipt or other proof of the date of original purchase, and send it prepaid and adequately insured to:

Videx, Inc. 1105 NE Circle Blvd. Corvallis, OR 97330 USA

A note detailing the problem is most helpful and should be included in the box.

Technical Information

WARNING:

This section contains information for advanced users only! Modifying system setups described in this appendix could cause irreparable damage to databases if not properly executed. Be extremely certain of your actions before making any changes!

Application Specifics

The iBR9000 software is written in Java. Java version 1.5 or higher must be installed on the system in order for it to run. To find out which version of Java is installed on the system, click the "*About*..." button in the Java control panel, or type "*java -version*" at the system command prompt.

Application pages are served to the web browser by a program called Jetty, but Tomcat could also be used. For more information on Jetty, visit *www.mortbay.org*. Jetty may be started or stopped by right-clicking on the icon in the Windows system tray, or via the *iBR9000 Controller* window on Macintosh systems.

Date and time data is stored by the application in Videx UTC format. This is the number of seconds which have elapsed since midnight on January 1, 1996.

APPENDIX I Technical Information

Database Information

The default database server is Derby, though it is possible to use MySQL or SQL-Server. For more information on Derby, visit the Apache Group's website at *www.apache.org*.

The type of database used and its necessary configuration options may be changed by editing the file named *"ibutton.properties"* located in the *"webapps"* subfolder of the Jetty installation directory. By default, Jetty is installed in *"C:\Program Files\videx\iBR9000 Software\jetty"*, though it is possible to select a different directory when installing the software. To change the type of database used, uncomment the appropriate section of the file and comment out the default section (commented lines begin with *'#'*). Specify the appropriate location of the database, its name, and the required username and password.

A sample *ibutton.properties* file is shown below.

```
# derby
database.type=Derby
database.host=USER HOME\\iBR9000
database.global.name=ibutton global
database.user=APP
database.pswd=APP
# SQL-SERVER
#database.type=SqlServer
#database.host=172.10.1.92;
#database.global.name=ibutton global
#database.user=sql-ibutton
#database.pswd=ibr9000
# MYSOL
#database.type=MySql
#database.host=localhost
#database.global.name=ibutton global
#database.user=mysql-ibutton
#database.pswd=ibr9000
# common
database.connections.poolsize=10
database.connections.detectleaks=0
```

The default database location is another subfolder of the Jetty installation directory named *"derby-data"*.

To run direct queries on the database (using SQL), open the URL *http://localhost:8080/ibutton/executeSql.do* in a web browser.

Running iBR9000 from a Server

Because a web browser is used to interface with the application, it is possible to install the iBR9000 software on a server machine and access it over a LAN or the Internet. Multiple persons will be able to use the application simultaneously (up to a maximum of 10), and all data will be stored in the same database.

To change the port number on which Jetty communicates (so as not to interfere with other TCP/IP services), two files must be modified. Both are located beneath the Jetty installation directory.

The first file, "url.txt", contains only one line:

```
http://localhost:8080/ibutton/
```

To change the port, simply replace the value "8080" with the new port number.

The second file, "*jetty.xml*", is located in the "*etc*" subfolder of the Jetty directory and contains all the information needed to launch the web server. The parameter named "*jetty.port*" must be edited to reflect the desired port number. Locate the following line in the file:

<Set name="port"><SystemProperty name="jetty.port" default="8080"/></Set>

Replace "8080" with the same value entered for the new port number in the first file.

Changing the Jetty port number on Mac servers is much easier. While the application is running, choose "*Preferences...*" from the *iBR9000* application menu to display the *iBR9000 Controller* window. The server status may be seen at a glance in this window. If the server is running, a green traffic light is displayed. If the server is stopped, a red traffic light is displayed.



The server may be started and stopped using the buttons provided in this window. The network port on which the Jetty server listens may also be changed in this window, provided that the server is stopped first. Finally, if the iBR9000 browser window has been closed, but the server is still running, the application window can be re-launched by clicking the *Log In* button.

Additional Communication Options

To utilize IrDA hardware other than the IR Encoder, an application called *iBRAgent* was created for Windows and Pocket PC users. It functions in similar fashion to the *iBR9000 EncoderLink* application.

The download page for *iBRAgent* is available at the URL *http://localhost:8080/ibutton/download*. If downloading remotely, replace *"localhost"* with the IP address of the machine running the iBR9000 software.

iBR9000 Downloa	as	
Cell Phone and PDA application	s	
IBRAgent - Pocket PC		
Windows computers with IrDA	ports	
IBRAgent - PC (18 MB)		
IR Encoder		
Launch IR Encoder Application		

Figure A-2: The iBR9000 Downloads Page

The Jetty server must be running on the host computer in order for these applications to work, but the web browser need not be open.

APPENDIX I Technical Information

System Tray Icon Functionality

The icon representing the iBR9000 software in the system tray on Windows computers provides at-a-glance information about application status and two additional functions.

When the Jetty web server application is loading, the IR icon will have a white background: \square . When the server is running, the background will be green: \square . When the server is stopped, the background will be red: \square .

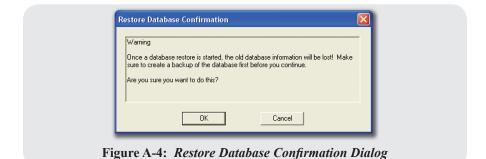
Right-clicking on the icon will display a context menu which shows the software version and provides options for starting/stopping the server and restoring the database from a backup file.

	Settings
	iBR9000 Software Version 2.1 - 1.2.1
	Stop Web Service
	Log On
	Restore Database
	Exit
	2 1 IR 9:06 AM
Figure A-3	3: The System Tray Icon Context Menu

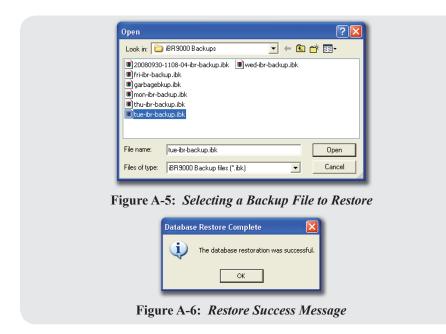
If the Jetty server is running, but the application is not open, clicking the "Log On" option will open it in the default web browser.

Restoring the Database

To restore the database from a backup file, choose the *"Restore Database"* option from the system tray icon's context menu. Restoring a database backup file will overwrite the current database contents. The application will prompt for confirmation before continuing.



Select the desired backup file and click the *Open* button. When the restore is complete, a success message will be shown.



Troubleshooting

Problem - iBR9000 reader sirens when it touches an iButton.

Possible Solutions:

- 1. The battery was disconnected long enough to stop the reader's internal clock. Synchronize it with the software.
- 2. The reader's memory is full. Download it using the software.

Problem - iBR9000 reader does nothing when it touches an iButton.

Possible Solutions:

- 1. Replace the battery a low or dead battery will prevent the unit from operating.
- 2. The reader could be damaged. Contact the reseller from whom the unit was purchased.

Problem - the software page won't load in the web browser.

Possible Solutions:

- 1. Make sure the web server is running. Check for the icon in the system tray. Start the web service from the pop-up context menu if necessary.
- 2. Check the URL. In most cases, it should be *http://localhost:8080/ibutton*.

Problem - iBR9000 reader won't communicate with the software.

Possible Solutions:

- 1. Make sure the *iBR9000 EncoderLink* application is running.
- 2. Make sure an IR Encoder is connected to the PC, and the reader is placed within 3 inches of it.

