Cantor



Georg Cantor (1845-1918)

Cantor User's Manual

David Marcus

Version 9.10 April 19, 2015 You may use Cantor (the application documented in this manual) for free to submit results to Ratings Central. Any other use is prohibited.

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1 Main-window shortcut keys

CHAPTER 1

Introduction

Cantor is the front end for Ratings Central. Cantor allows you to easily submit results and corrections to Ratings Central. You can see all the results and ratings on the Ratings Central website at www.ratingscentral.com.

The only documentation for Cantor is this manual—there is no Help. You will probably want to print this manual (double-sided) and place it in a three-ring binder. If you read this manual, you will find Cantor to be very easy to use. Chapter 2 on page 17 contains an overview in the form of a tutorial. The following chapters of the manual are organized around each of the item's in Cantor's main menu. These are followed by chapters on Cantor's main window and club browser. Then come chapters on unrated players, submitting events, and mistakes and errors. The appendices cover Georg Cantor, screen resolution and font size, detailed information on the user interface, how Cantor finds the database folder, and crashes and bugs.

1. Installation and Files

Cantor runs on Windows 8.1, 8, 7, Vista, XP, 2000, Server 2008, Server 2003. Any computer hardware should work. You should also be able to run it on a Mac or Linux using Wine or CrossOver. To submit results to Ratings Central, you will need a connection to the Internet (see Section 3 on page 28 for more information). You do not need to be connected to the Internet while you are entering results into Cantor. So, you could enter the results at your club and then submit the results later.

The installation program (e.g., Cantor_9.10_Setup.exe) creates a program folder (e.g., C:\Program Files (x86)\RatingsCentral\Cantor) and places the executable (Cantor.exe), User's Manual (Cantor.pdf), sample rating list (SampleRatingList.csv), sample club list (SampleClubList.csv), license file (License.txt), OpenSSL files (libeay32.dll, ssleay32.dll; these files are only needed if you check the ::*Cantor > Set Up Internet > Email > Use TLS* check box), read-me file (ReadMe.txt), and a file detailing the changes in each version (VersionHistory.txt) in the program folder. It adds Cantor and the User's Manual to the "Start" menu and optionally to the desktop. That's all that the installation program does.

Note that the sample rating list and club list files are just samples—they do not contain real players or clubs. Their only purpose is to let you work through the overview section. Do not use them when running a real event that you will submit to Ratings Central.

1. INTRODUCTION

When you start Cantor, it will create the following set of database files in the database folder: Club.nx1, Configuration.nx1, Event.nx1, Player.nx1, RatingList. nx1, Result.nx1, and Submission.nx1. It will also create an nxTrans.cfg file.

The nxTrans.cfg file is used by the database library that Cantor uses, but the file is not essential. If it is erased, it will be recreated.

The Club.nx1 and RatingList.nx1 files only contain the data from whatever club list and rating list that you've imported. Also, it is possible to keep these two files in a different folder than the other database files (see Section 2.2 on page 28).

The remaining five files with the nx1 extension contain the information for all the events, players, and results. They are interdependent, so you should treat them as a group. Be sure to make backup copies of them each time that you use Cantor, and keep the copies in a safe place.

The location of the database folder is controlled by the shortcut that you use to start Cantor. The shortcuts that the installer creates will put this folder in your app data folder, e.g., C:\Users\YourUserName\AppData\Roaming\RatingsCentral\ Cantor. Note that the default location of the database folder has been different in different versions of Cantor. See Appendix D on page 83 for how to tell Cantor where your database folder is.

1.1. Upgrading. The format of the database files in a new major version of Cantor will be different than in previous versions. However, the file format will not change in a minor version release. You do not need to uninstall a previous version when installing a new version (this applies to both major and minor versions). By default, the installation program will install a new version so that it replaces an older version. But, please make sure that your shortcuts still point to the location of your database folder.

In general, Cantor can update database files from previous versions to the current version's format. It will do this automatically when it starts if the files in the database folder are from a previous version. Please back up your database files before letting Cantor update them.

Cantor doesn't bother to update the Club.nx1 and RatingList.nx1 files since they only contain the same data that is in the club and rating lists you imported. If Cantor finds these files are from a different version, it will simply delete them and create new, empty ones that are for the current version.

If you have database files from Cantor version 1 or 2 and you used different director IDs for different events, then Cantor won't be able to update the files. In this case, keep your old version of Cantor to access the old files. If you have multiple versions of Cantor installed, be sure you don't enter the same event into more than one version.

1.2. Moving Files. If you move the database files from one computer to another by writing them to a CD or if you restore them from a backup on a CD, the files may end up being read-only. When you start Cantor, you will get an error message to this effect. To fix the problem, right-click the files in Windows Explorer, select *Properties*, and uncheck the *Read-only* check box.

Sometimes, if you move the database files to a different version of Windows, Cantor will need to do a database pack when it starts. If it does, you may see a slight delay when Cantor starts. The reason is that Windows is telling the database

3. NOTATION

that the way it sorts strings may be in a slightly different order from the other version of Windows, and the database wants to make sure that everything will work correctly.

2. Language

Cantor only accepts characters that are in the ISO 8859-1 (Latin 1) character set (en.wikipedia.org/wiki/ISO_8859-1). In general, Cantor will use your Windows locale. But, if your Windows locale does not use the Windows 1252 (Latin 1) code page, Cantor will use the US English locale for sorting strings. This may affect the order in which records are displayed in grids.

3. Notation

In this manual, I'll write the names of menu items, buttons, field labels, etc. in a slanted sans-serif font, e.g., *Rating List*. I'll specify sequences of menu items, buttons, etc. by separating them with a ">" sign. The double colon "::" means that the sequence of items starts at the main menu. For example, you can exit Cantor via ::*Cantor > Exit*. I'll write keys on the keyboard by putting the name of the key between angle brackets, e.g., (Ctrl+Del) or (Enter). Note that (Ctrl+Del) means hold down the control key and press the delete key.

CHAPTER 2

Overview

This chapter provides a brief overview in the form of a tutorial. Working through this tutorial is not a substitute for reading the rest of the manual.

Start Cantor. You will see the quick-start window (see Figure 1). Cantor only displays this window if you haven't entered any results. Close the window. You will see Cantor's main window (Figure 2 on the next page).

Select ::*Lists* > *Import*. You will see the window shown in Figure 3 on the following page. Click the button at the right of the *Rating list* field and select the file SampleRatingList.csv in the program folder (e.g., C:\Program Files (x86) \RatingsCentral\Cantor). Click the button at the right of the *Club list* field and select the file SampleClubList.csv in the program folder. Click the *Import* button. Cantor will import the lists.

Select ::*Events > Select Current*. You will see the window in Figure 4 on page 19. Click the *Add Event* button. The notebook will switch to the *Edit* page (see Figure 5 on page 19). Type "Ratings Central Open" in the *Name* field. Click the button at the right of the *Date* field to drop down a calendar. Click the *Today* button. Set *State* to "VA". Click on the *Change* button to pop up the club browser (Figure 6 on page 20). Click the *Select Club* button to select the VTTA club and close the window. Enter "1600" in the *Unrated prior > Mean* field, and enter "200" in the *Unrated prior > Standard deviation* field (see Chapter 9 on page 59 for instructions on how to set the *Unrated prior* fields for your event).

Click the *Save* button. You will see the *Browse* page and the event you just added will be listed in the grid (see Figure 7 on page 20). Click the *OK* button. The main window now displays the name and date of the event (see Figure 8 on page 21).

Select ::*Players > Modify*. You will see the window in Figure 9 on page 21. We'll assume the players have played in a previous event and so are on the rating list.



FIGURE 1. Quick-start window

A Cantor 7.2	
<u>P</u> layers <u>E</u> vents Lists <u>C</u> antor	
# Winner Pating Winner Name	C Scoro A
	*
Ctrl+Del; Delete Result New Result Modify Res	sult Print Results
C:\Users\David\Documents\Cantor	.::

FIGURE 2. Main window

Source: File Rating list: Club list: Existing records Corduplicates, keen
Rating list: Image: Constraint of the second seco
Club list:
Existing records For duplicates, keep
 ● Discard all ● Mew ● Old ○ Old Import Cancel Import Cancel Import Cancel Import Cancel Import Import Import Import Import Import Import Import Import Import Import Import Im

FIGURE 3. Import window

If you have players who have not played in a previous event, then you would add them by clicking the *Add Player* button.

Since we are assuming the players are on the rating list, click the *Rating List* button. You will see the rating-list browser (Figure 10 on page 22). Click the *Add Player* button to add David H. James to the event. You will now see the *Edit* page of the modify-players notebook (Figure 11 on page 22). Click the *Save* button.

Click the *Rating List* button to bring up the rating list again. This time, click on the line that says "O'Neill, Sean Patrick", then click the *Add Player* button. Click

2 Select Current Event				x
Date 💌 Name	Modified	Submitted	Submit Fail 🔺	Pro
				wse
				Ŧ
			Ŧ	
Ctrl+Del: Delete Event Add Event	Edit Event	ОК	Cancel	

FIGURE 4. Select-current-event window

🤱 Edi	t Event	. 🗆 🔀
	Name:	Browse
	Date: ▼ Match format: 3 of 5 ▼ State: ▼ Country: USA ▼	Edit
	Club	
	C <u>h</u> ange Clear	
	Unrated players Status Modified:	
	Standard deviation:	
	I Save Cancel	

FIGURE 5. Edit-event page



FIGURE 6. Club browser

2	Select Ci	urrer	nt Event					4			-	x
Γ	<u>D</u> ate	▼	<u>N</u> ame				Modified	Submitted	Subm	nit Fail	^	Ψ
Þ	11/20/2	011	Ratings	Central (Open			Not Submitt	ed			SMO
L												•
												Ш
L												-
L												
L												
L												
L												
L												
Ŀ											Ŧ	
ŀ		_							_	,	_	
(trl+Del: D	elet	e Event	<u>A</u> dd E	vent	Edit	Event	ОК	Ca	ncel		
L												

FIGURE 7. Event grid

the *Save* button. The window should look like Figure 12 on page 23. Click the *Close* button.

Click the *New Result* button at the bottom of the main window. You will see the window in Figure 13 on page 23. Click "O'Neill, Sean Patrick" in the *Winner* (left) list box and "James, David H." in the *Loser* (right) list box. Enter "7", "-4", "10", and "2" in the *Score* boxes. The window will look like Figure 14 on page 24. Click the

Cantor 7.2	
Players Events Lists Cantor	
Ratings Central Open	
Sunday, November 20, 2011	
<u>#</u> ♥ Winner Rating Winner Name □ Loser Rating Loser Name	Score
	Ŧ
Ctrl+Del: Delete Result <u>N</u> ew Result <u>Modify Res</u>	sult Print Results
C:\Users\David\Documents\Cantor	

FIGURE 8. Main window showing event name and date

A Browse Players		
R. <u>C</u> . ID <u>Name</u>	Rating St. Dev. USATT ID	TTA ID Club Prowse
Eind:	Ctrl+Del: Delete Player	Rating List

FIGURE 9. Modify-players window

2	🤱 Rating List 📃 🔲 🔀									
	<u>I</u> D	<u>N</u> ame 🗠	Rating	St. Dev.	Club	State	Last Played	Postal Code	Country	^
Þ	5002	James, David H.	1827	32	VTTA	VA	7/1/2002	23227-1721	USA	
	5001	O'Neill, Sean Patrick	2445	43	VTTA	VA	12/15/2002	22903	USA	
	5003	Schlager, Werner	2840	75			2/25/2002		AUT	
	1									*
<									>	
ļ	Eind:			Add	Player	<u>O</u> ver	write Player	Ne <u>w</u> Player	Close	

FIGURE 10. Rating-list browser

🤱 Edit Player			x
<u>N</u> ame: <mark>James, David H.</mark>	<u>ia</u>	IDs Ratings <u>C</u> entral: 5002	Browse
Address <u>1</u> :		USATT: 56475	
Address <u>2</u> :			Ë
City:	<u>S</u> tate: VA ▼		
P <u>r</u> ovince:	Postal code: 232	227-1721	
Country: United States	▼ Em <u>a</u> il:		
Se <u>x</u> : Male •	Rating: 1827	Unrated prior <u>M</u> ean:	
Birth: 9/9/1973	Standard <u>d</u> eviation: 32	Standard deviation:	
Club Virginia Table Tennis Ass	sociation	4) 4 6 6	
	Change Clear	Save Cancel	

FIGURE 11. Edit-player page

OK button. Click the *Cancel* button to close the window. The main window will look like Figure 15 on page 24.

The final step is to submit the event to Ratings Central. Submitting events is covered in Section 3 on page 41 rather than in this tutorial. But, you don't want to submit the test event that you just created. So, click anywhere in the grid, e.g., click Sean's name. The result row in the grid will now be highlighted and the words

2	Browse Pla	ayers			4	1) C _		x
Г	R. <u>C</u> . ID 🗌	Name 💌	Rating	St. Dev.	USATT ID	<u>T</u> TA ID 🗌	Club 🔺	ų
	5002	James, David H.	1827	32	56475		VTT	SMC
Þ	5001	O'Neill, Sean Patrick	2445	43	8840		VTT,	<u>e</u>
								Edit
F							,	-
		Ctrl+I	Del: Delete	Player	<u>A</u> dd Player	Rating	List	
	<u>F</u> ind:				<u>E</u> dit	Clos	se	

FIGURE 12. Player grid

🤱 New Result	
<u>W</u> inner	Loser
James, David H. O'Neill, Sean Patrick	James, David H. O'Neill, Sean Patrick
Score:	No score: Match format: 3 of 5 ▼ Cancel

FIGURE 13. New-result window

"Ctrl+Del: Delete Result" in the bottom left will no longer be dimmed (see Figure 16 on page 25). Press $\langle Ctrl+Del \rangle$ to delete the result. Then select *::Events > Select Current* and press $\langle Ctrl+Del \rangle$ to delete the event. This also deletes the players in the event. Select *::Cantor > Exit* to close Cantor, and then use Windows Explorer to delete the Club.nx1 and RatingList.nx1 files in the database folder. The location of the database folder is displayed in the status bar at the bottom of Cantor's main window (see Chapter 7 on page 53).

Note that the sample rating list and club list files you used in this overview are just samples—they do not contain real players or clubs. Their only purpose

🐁 New Result			
<u>W</u> inner	Loser		
James, David H.	James, David H.		
O'Neill, Sean Patrick	O'Neill, Sean Patrick		
Score: 7 -4 10 2	<u>No</u> score: <u>Match format</u> : <u>3 of 5</u> ▼		
ОК	Cancel		

FIGURE 14. Result being entered

2 Cantor 7.2		
<u>P</u> layers <u>E</u> vents Lists <u>C</u> antor		
Ratings Central Open		
Sunday, November 20, 2011		
# Winner Rating Winner Name Loser Rating Loser Name	Score	*
1 2445±43 O'Neill, Sean Patrick 1827±32 James, David H.	7,-4,10,2	
	(
		Ŧ
Ctrl+Del: Delete Result New Result Modify Re	sult Print Results]
C:\Users\David\Documents\Cantor		.::

FIGURE 15. Main window showing result

is to let you work through this overview. Do not use them when running a real event that you will submit to Ratings Central. See Section 1 on page 33 for how to download and import real rating and club lists.

Before entering a real event into Cantor, please enter your Internet parameters (see Section 3 on page 28) and perform the test in Section 3.3 on page 30 to make sure you can submit events.

Before submitting a real event to Ratings Central, please read Chapter 9 on page 59 to learn how to set the mean and standard deviation for unrated players.

🔒 Cantor 7.2	
<u>P</u> layers <u>E</u> vents L <u>i</u> sts <u>C</u> antor	
Ratings Central Open	
Sunday, November 20, 2011	
# Winner Rating Winner Name	Score 🔺
▶ 1 2445±43 O'Neill, Sean Patrick 1827±32 James, David H.	7,-4,10,2
	Ŧ
Ctrl+Del: Delete Result <u>N</u> ew Result <u>M</u> odify Re	sult Print Results
C:\Users\David\Documents\Cantor	.::

FIGURE 16. About to delete result

CHAPTER 3

Cantor Menu

The Cantor menu contains items that relate to the application as a whole.

1. Exit

The *Exit* menu item closes Cantor. No information is lost when you do this because Cantor always writes all information to the database files immediately after completing any operation.

2. Set Up

The *Set Up* menu item brings up a window (Figure 1) that lets you set your director ID and password and the location of the list database folder.

2.1. Director. Enter your director ID in the *ID* field. To get a director ID, you must register on the Ratings Central website. Your director ID is not the same as your player ID (if you have one). Once you've submitted an event, Cantor won't let you change the director ID. Do not share your director ID with anyone else. If more than one person will be submitting events for your club, each person should register as an event director.

🧕 Set Up					
Director					
ID:	5044				
Password:	*********				
Sport:	Table Tennis 🔻				
List database folder:					
Save Cancel					

FIGURE 1. Set-up window

Enter your director password in the *Password* field. You select your password on the Ratings Central website. Since this is a password, Cantor will display asterisks in this field rather than the characters you type. The password is case sensitive.

Select the sport that corresponds to your director ID in the *Sport* field. If you want to submit events for more than one sport, you will need a director ID for each sport; see Appendix D on page 83.

2.2. List Database Folder. The rating-list database file RatingList.nx1 and the club database file Club.nx1 contain the same information that is in whatever rating and club lists you've imported. Since the rating-list database file can be rather large and there is no need to back up either of the list database files, you may wish to keep them in a folder other than the database folder, thus making it simpler to back up the database files that you do need to back up whenever you use Cantor. Another reason you might wish to do this is if you have more than one director ID—see Appendix D on page 83. You can use the same list-database folder for both Cantor and Zermelo (or two or more instances of either of them), but if you do so, you can only have one app running at a time.

Enter the folder you wish to use in the *List database folder* field. Leave the field blank to use the database folder as the list database folder. You can enter the name of a folder that doesn't exist and Cantor will create it. You can click the button to the right of the field to browse to the folder you want.

If you have already imported a list, changing the list database folder will not move the list database files. You will either have to move them yourself or import the lists again. If you wish to move them yourself, do it when Cantor is not running.

3. Set Up Internet

The *Set Up Internet* menu item brings up a window (Figure 2 on the facing page) that lets you set your email and Web parameters. Cantor uses these when submitting events to Ratings Central and when downloading rating and club lists.

Put your email address in the *Your address* field. Ratings Central will send confirmation messages to this address. Enter only your email address; don't include angle brackets or a display name.

Cantor can submit events to Ratings Central using either email or the Web. Select the method you prefer in the *Submission method* drop-down list. The Web submission method is easier to set up and will work with more Internet connections. The email submission method will probably work more quickly.

3.1. Email. Enter the name of your SMTP (outgoing mail) server in the *SMTP server* field. This is typically something like smtp.YourISP.com or mail.YourISP. com. For example, RCN uses smtp.rcn.com. Many ISPs include this information on their websites in their instructions for setting up your email client. If you use Eudora as your email client, you can find the SMTP server name in *::Tools > Options > Sending Mail*. If you only use webmail, then you probably won't find the SMTP server name in your email settings. If you can't find the SMTP server name anywhere, ask your ISP.

3. SET UP INTERNET

🤽 Set Up Internet	:
Your <u>e</u> mail address:	davidmarcus@alum.mit.edu
Submission <u>m</u> ethod: Email	Email
SMTP server:	smtp.rcn.com
SMTP port:	25
Use <u>a</u> uthentication:	Use TLS:
<u>U</u> sername:	
Password;	
Web proxy server Use proxy server:	
Ser <u>v</u> er name:	
Port:	
User <u>n</u> ame:	
Pass <u>w</u> ord;	
Test	Save Cancel

FIGURE 2. Set-up-Internet window

Enter your SMTP port in the *SMTP port* field. The standard ports for SMTP are 25 and 587. If your ISP doesn't tell you the port that they use for their SMTP server, try both of them (both, one, or neither may work).

Some ISPs have their SMTP servers set up to use authentication (i.e., to require a username and password). If your ISP uses SMTP authentication, check the *Use authentication* check box. Then enter your account username and password in the *Username* and *Password* fields. If the SMTP server supports TLS, then check the *Use TLS* check box (if you check this check box, but the server does not support TLS, Cantor probably won't notice the error). TLS encrypts the communication with the server so your password is not sent in clear text. If you aren't sure whether your ISP uses SMTP authentication, try it first without authentication, since most ISPs don't use it. Note that just because you have a username and password doesn't mean your ISP uses SMTP authentication. You always have a username and password so that you can access the POP (incoming mail) server.

If your ISP account doesn't provide an SMTP server or you don't know how to configure Cantor to use it, then use the Web submission method.

3.2. Web Proxy Server. Usually, you don't have to set any Web parameters. However, some Internet connections use a proxy server to access the Web. It is

3. CANTOR MENU



FIGURE 3. Test-sent window

From: Ratings Central Subject: Ratings Central: test received To: David Marcus Date: Tue, 29 Jul 2003 23:13:56 -0400

Submitted: July 29, 2003, 10:17 pm Status: Test

We received the test you sent.

Ratings Central www.ratingscentral.com

FIGURE 4. Test reply email

unlikely that a home connection uses a proxy server, but it is moderately common for companies to use proxy servers. Cantor uses the *Web proxy server* parameters when downloading rating and club lists and when submitting events to Ratings Central using the Web submission method.

You can find whether you are using a proxy server by looking at your Internet options in Windows: *Control Panel > Internet Options > Connections > LAN Settings... > Proxy server*. If the *Use a proxy server for your LAN* check box is checked, then you should check Cantor's *Use proxy server* check box and copy the values from the Windows *Address* and *Port* fields to Cantor's *Server name* and *Port* fields. If your proxy server requires a username and password enter them in the *Username* and *Password* fields.

Sometimes a company uses a proxy server, but you can still access the Web even if you leave the *User proxy server* check box unchecked.

3.3. Test. Click the *Test* button to test your Internet setup. When you click this button, Cantor will send a test submission to Ratings Central. If Cantor succeeds in sending the test, it will display the window in Figure 3. Ratings Central will respond with an email like the one in Figure 4. The "Submitted" date and time in the email will be the date and time that you clicked the *Test* button.

6. DISPLAY VERSION

🤱 Select Printer			
Printer:	Printer: hp LaserJet 1000		
	Save Cancel		

FIGURE 5. Select-printer window

4. Select Printer

The *Select Printer* menu item brings up a window (Figure 5) that lets you select which printer Cantor prints to. If you select "Default", then Cantor will print to whichever printer you've set as the default printer in Windows. Cantor stores the printer you select in the Cantor.inifile, so Cantor will remember the value even after you quit Cantor.

5. Visit Website

The *Visit Website* menu item opens your browser on the Ratings Central home page (http://www.ratingscentral.com). To get to the "Event Director Support" webpage, log in using your director ID number and password where it says "Event Director Login" in the left sidebar below the ads on any page on the website.

6. Display Version

The *Display Version* menu item brings up a window (Figure 6 on the following page) that shows version and copyright information. The version number is also shown in the title bar of Cantor's main window. You can find the latest version of Cantor on the Ratings Central website.

You can click on the photo to go to a webpage about Georg Cantor.

3. CANTOR MENU



FIGURE 6. Version window

CHAPTER 4

Lists Menu

The *Lists* menu contains items that let you import rating or club lists and browse the imported lists.

1. Import

The *::Lists > Import* menu item brings up a window (Figure 1) that lets you import a rating list or club list into Cantor.

You don't need a rating list to use Cantor, but a rating list makes entering players much simpler. Similarly, you don't need a club list, but without one, Cantor won't let you enter clubs for players or events.

To add your club to the Ratings Central club list, go to the Ratings Central website and log in (see Section 5 on page 31).

Ratings Central provides players' personal information so that you can publicize and run your events. Please respect players' privacy—do not use the information for other purposes or give it to anyone else.

There are two ways to download the rating and club lists: automatic and manual.

1.1. Automatic Download. To have Cantor automatically download the rating and club lists from the Ratings Central website and import them, set the *Source* drop-down list to "Web". You won't be able to select "Web" unless you've already entered your director ID and password via *::Cantor > Set Up*.

🤱 Import	Lists		
<u>S</u> ource:	File 🔻		
<u>R</u> ating list:	: RatingList.csv 🗀		
<u>C</u> lub list:			6
Existing r	ecords	For duplicates, keep	
O <u>D</u> isca	rd all	● <u>N</u> ew	
• <u>K</u> eep		0Id	
[Import	Cancel	

FIGURE 1. Import-lists window

4. LISTS MENU

Downloadin	g Lists	×
Status: Resol	ving hostname www.RatingsC	entral.com.
	Abort	

FIGURE 2. Download window

If you've previously imported lists, then the *Existing records* radio box will be active. If you select the *Discard all* radio button, then all the records that you previously imported will be discarded. If you select the *Keep* radio button, the new records you are about to import will be appended to the ones you previously imported. (If you previously imported the sample rating or club lists that come with Cantor, be sure to select *Discard all*.)

If you select *Keep*, then the *For duplicates, keep...* radio box will be active. You have a duplicate record if there are two records for the same player ID or club ID number. If you select *New*, then the new record for any duplicate will be kept and the old one will be discarded. If you select *Old*, then the old record will be kept and the new one discarded.

Click the *Import* button to download and import the lists. Figure 2 shows the window that Cantor will display while downloading. Once the lists are downloaded, Cantor will automatically import them.

In addition to importing the lists, Cantor will place text copies of the lists in the RatingList.csv and ClubList.csv files in the list database folder (see Section 2.2 on page 28). See Section 1.2 for more information on these two files.

If you connect to the Web via a proxy server, you will need to enter your proxy server information in *::Cantor > Set Up Internet*.

1.2. Manual Download. To download a rating list and a club list manually, go to the Ratings Central website and log in (see Section 5 on page 31). Click the "Version 2" link that is just below where it says "Download zipped table tennis rating and club lists". This will download the two lists in a single zip archive. Save the file.

You will need any unzip program to extract the two lists from the archive. If you have Windows XP, Vista, or 7, then you don't need a separate unzip program because they have built-in support for unzipping files. There are dozens of unzip programs available on the Web.

Extract the contents of the zip file. You should now have two files: RatingList. csv and ClubList.csv. These are CSV files. "CSV" stands for comma-separated values. A CSV file is just a text file with commas separating the values.

Excel understands CSV files, so you can open them in Excel, if you wish. You can't have a list open in Excel while you are trying to import it into Cantor. If you do this, you'll get an error message that says something like "Cannot open file RatingList.csv: The file is open in another application." Excel uses a nonstandard CSV format—Cantor can import lists that are in either the standard CSV format or in Excel's CSV format.

1. IMPORT

MemberID,Name,Rating,State,Zip,Gender,DateOfBirth,ExpirationDate,LastPlayedDate 8840,"O'Neill, Sean Patrick",2484,VA,22903,M,1/2/1967,12/31/2099,8/31/2003 56475, "James, David H.",1827,VA,23227-1721,M,3/4/1973,9/30/2002,11/25/2001

FIGURE 3. Sample USATT rating list

Once you've downloaded the rating list and the club list, you are ready to import them. Set the *Source* drop-down list to "File". To import the rating-list file, RatingList.csv, type the filename of the file in the *Rating list* field. Include the path to the folder where the file is, e.g., C:\My Documents\RatingList.csv. Alternatively, click on the button at the right of the field to browse for the file.

To import the club-list file, ClubList.csv, type the filename including path in the *Club list* field, or click on the button at the right of the field to browse for the file.

You can import both a rating list and a club list at the same time. If you do so, then the selections you make in the radio boxes apply to both lists.

Click the *Import* button to import the lists.

Note that the rating list and club list are sport specific. So, if you have more than one director ID and the director IDs are for different sports, be sure you download and import the lists that are appropriate for your event's sport.

1.3. USATT Rating List. Cantor can also import a USATT rating list in CSV format that you can get from USATT. USATT provides a publicly-accessible list that does not include birth and a list that is only available to tournament directors that does include birth. Cantor can import either version of the list. Figure **3** shows the first few lines from such a list. To compare Figure **3** to the file that you receive from USATT, view the file in Notepad, not Excel. The first/header line must have the column headers shown (ignoring case) and in the same order (the "DateOfBirth" column can be omitted). Each succeeding line must have the information for one player with the fields separated by commas. Any field that contains a comma must be surrounded by double quotes. Names must be in "Last, First" format. Unrated players must have a rating of "0" or blank. Dates must be in m/d/yyyy format. Gender must be either "M", "F", or blank. Players with life memberships must have an expiration date of "12/31/2099".

Import the USATT rating-list file the same way that you would import the Ratings Central RatingList.csv file, i.e., set the *Rating list* field to the name and path of the file and click the *Import* button.

You can import both a Ratings Central rating list and a USATT rating list. When you import the second rating list, you will need to select the *Keep* radio button in the *Existing records* radio box. For the *For duplicates, keep...* radio box, it doesn't matter whether you select *New* or *Old* because Cantor knows to not confuse player IDs from the two organizations.

If Cantor encounters a problem with any line in the file you are importing, it will display a window with a message explaining what the problem is and what line is causing the problem. The window will have two buttons: *Continue Importing* and *Stop Importing*. Click the *Continue Importing* button to continue importing subsequent lines in the file. Click the *Stop Importing* button to stop importing

4. LISTS MENU

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Import-Lists Error	
8	Bad state: V in this line: "O'Neill, Sean Patrick",5001,2445,43,12/15/2002,1,,,,V,,22903,USA,sean@ratingscentral.com,7/31/1967,M,1,8840,0
	Continue Importing Continue and Ignore Errors Stop Importing
Ctrl+C: C	opy Message

FIGURE 4. Import-lists error window

lines from the file. In both cases, any lines already imported will remain imported and the problem line will not be imported.

Some players in USATT's ratings.csv file may have temporary ID numbers. These are USATT ID numbers that are greater than 999999. Cantor will import these players, but not their temporary ID numbers. That is, when you browse the rating list, these players will have blank USATT ID numbers.

1.4. Import Errors. If Cantor encounters a problem parsing a line in a list that it is importing, it will display a window like Figure 4. Click the *Continue Importing* button to skip the line and continue importing the list. Click the *Continue and Ignore Errors* button to skip the line, continue importing, and silently skip any subsequent lines that have errors. Click the *Stop Importing* button to stop importing the list.

2. Browse Rating

The *Browse Rating* menu item brings up a window that lets you browse the rating lists that you've imported. See Section 1.3 on page 47 for more information.

3. Browse Club

The *Browse Club* menu item brings up a window that lets you browse the club list that you've imported. See Chapter 8 on page 57 for more information.
Events Menu

The *Events* menu contains items that let you set the current event, add events, set event parameters, and submit events to Ratings Central.

Ratings Central identifies an event by its date and director ID. So, Cantor only allows you to have one event on a given date. If you need to submit two events on the same date, see Appendix D on page 83. Do not use the same director ID with Zermelo to submit a tournament on the same date as an event that you are submitting with Cantor.

1. Multiple-Day Events

While events are identified by their date, you don't have to have all the matches be played on a single day. For example, if you run a tournament that lasts two or three days, it makes sense to consider all the matches as being from a single event. If you play matches at your club several nights during the week, you could consider the week's matches to be a single event. Or, you could treat each day's matches as a different event. It is up to you.

Ratings Central will calculate slightly different ratings depending on how you group the matches into events. Bunching up matches should generally improve the accuracy of the ratings. In particular, if you have a large number of unrated players, it is generally better if you can bunch up more matches into a single event. However, all the matches in a single event should be from a reasonably short span of time, i.e., a few weeks. If you aren't sure what to do, please contact us for advice; see http://www.ratingscentral.com/Problems.php for our email address.

Even if your event lasts more than one day, you can still submit the event each day. When you resubmit the event on subsequent days, Ratings Central will recalculate the ratings taking into account all the matches in the event.

If you submit an event or tournament, then you should include all matches that were played in the event or tournament, i.e., don't just submit the matches played by your club members, for example. Your tournament can (if you wish) have individual events that count for ratings and also individual events that do not count for ratings, in which case you would only submit the matches in the individual events that count for ratings.

2. Select Current

The *Select Current* menu item brings up a tabbed-notebook window (Figure 1 on the next page) that lets you select which event is the current event. The current event is displayed in Cantor's main window and is the event that you can add players and results to.

5. EVENTS MENU

2	Select Cu	irrent Event						×
\square	<u>D</u> ate ⊻	<u>N</u> ame		Modified	Submitted	Submit Faile	^	μŪ
Þ	5/13/2004	Thursday Night RR			Not Submitted		_	.OWS
	5/29/2004	Ratings Central Open			Not Submitted			ö
								Edit
	1						~	
<u> <</u>						>		
(Ctrl+Del: Dele	te Event <u>Add Event</u>	Ē	dit Event	ОК	Cancel		

FIGURE 1. Select-current-event window

The *Select Current* menu item also lets you browse and add events and set the parameters for each event.

2.1. Browse. The first page of the notebook (the *Browse* page) contains a grid listing the events along with various parameters for each event. Just like Cantor's other grids, you can resize a column by dragging an edge of the column header, you can rearrange the order of the columns by dragging a column header with the mouse, and you can sort the grid on a column by clicking the button to the right in the column header. You can only sort the grid on columns that have the button. The column that is being used for sorting will show a downward-pointing arrowhead in the button.

The grid lets you select which event is the current event. The current event is indicated by the right-pointing arrowhead in the leftmost column of the grid. If the grid has the focus (see Section 4 on page 74 for an explanation of "focus"), then the current event is also highlighted. When you click the *OK* button to close the window, Cantor will update the main window so it displays the name, date, and results of the current event. If you click the *Cancel* button, then Cantor will not change which event was current. You can also double-click the row of an event to select it as the current event and close the window.

The columns of the event grid display information that you can also view on the *Edit* notebook page. Each column is described below when we describe the *Edit* page.

2. SELECT CURRENT

🤱 Edit Event		
<u>N</u> ame: <u>D</u> ate: S <u>t</u> ate: Club <u>Virg</u> i	Ratings Central Open June 8, 2004 Match format: 3 of 5 VA Country: USA Inia Table Tennis Association Change Clear	<u>E</u> rowse
4	Unrated players <u>Mean:</u> 1400 Standard deviation: 300 Standard deviation: 300 Standard deviation: 300 Submit failed: Save Cancel	

FIGURE 2. Edit-event page

The *Add Event* button switches to the *Edit* page to let you add a new event. The *Edit Event* button switches to the *Edit* page for the currently selected event; you can also click the *Edit* notebook tab.

Press (Ctrl+Del) to delete the event that is highlighted. The grid must have the focus for you to delete an event. Cantor will not let you delete an event if there are any match results entered for the event or if you have submitted the event and made any modifications to the event since you've submitted it. If you want to delete such an event, first delete all the results. If you haven't previously submitted the event, you will now be able to delete it. If you have previously submitted the event, then resubmit it. You won't receive an email confirmation when an event with no results is processed, so check on the Ratings Central website that the event is no longer there (to make sure that the resubmission worked). Then, delete the event. You can tell whether you can delete the highlighted event by whether the words "Ctrl+Del: Delete Event" just below the grid are dimmed or not.

2.2. Edit. Figure 2 shows the *Edit* notebook page.

2.2.1. *Navigation and Saving.* Any changes you make on the *Edit* notebook page are not saved to the database files until you save them. One way to save your changes is to click the *Save* button. If you click the *Browse* notebook tab, Cantor will save your changes just as if you clicked the *Save* button.

In the bottom left of the window there is a navigator bar with four buttons. This lets you move to a different event without first going back to the *Browse* page. The left navigator button moves to the first event (order of events is determined by how the grid on the *Browse* page is sorted), while the right navigator button moves

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to the last event. The middle-left button moves to the event before the one that is displayed, while the middle-right button moves to the event after the displayed one. If you navigate to a different event, Cantor first saves any changes you have made to the displayed event. If you do not want to save your changes, you should click the *Cancel* button instead.

2.2.2. *Name.* Enter the name of the event in the *Name* field. You must set the name for the event.

2.2.3. *Date.* Enter the date of the event in the *Date* field. If the event lasts more than one day, enter the date of the first day. Although the field displays the date using the month name, you can enter the date using numbers. If you do use numbers, they must be in the order month-day-year. Generally, Cantor uses your Windows regional settings to display dates in the format that is appropriate for your region, but because this field displays the month name, you must enter the month number first. You can also set the date by clicking the button to the right of the field to drop down a calendar.

Once you've submitted the event, you can't change the date. If you submit the event using the wrong date, you will have to delete all the matches, resubmit the event (to delete it), then enter the matches into a new event on the correct date. If you feel it is impractical for you to do this, contact us for assistance; see http://www.ratingscentral.com/Problems.php for our email address.

2.2.4. *Match Format.* When you enter results, you can select the match format for each result. Since it would be tedious to have to change the format for every result, the *Match format* field lets you set the default format to use when entering results for matches in the event. In other words, this field lets you set which match format the *New Result* window starts out with when you click the *New Result* button. See Section 1 on page 54 for more information.

2.2.5. *State.* Set the *State* field to the state (for the USA) or province (for Canada) where the event is located. For countries other than the USA and Canada, the field will be disabled. Cantor also uses the event state as the default state when adding new players to the event. When you add a new event, Cantor initializes the state to the state of the current event.

2.2.6. *Country*. Set the *Country* field to the country where the event is located. Cantor also uses the country as the default country when adding new players to the event. When you add a new event, Cantor initializes the country to the country of the current event.

2.2.7. *Club.* The *Club* box shows the club that is sponsoring the event. More than one club can sponsor an event, but Cantor only lets you set one club for the event. To add another club, you must go to the Ratings Central website and log in (see Section 5 on page 31). When you add a new event, Cantor initializes the club to the club of the current event. An event does not have to have a sponsoring club.

Cantor won't let you type the name of a club in the club field. To set or change the club, click on the *Change* button to bring up the club browser. The club browser is described in Chapter 8 on page 57. The *Change* button will only be enabled if you have imported a club list (see Section 1 on page 33). To clear the club, click the *Clear* button.

3. SUBMIT

🤱 Submit Events	
Submit Events Close Previous Submissions	
	Event Date
▶ 11/21/2004 9:54:31 pm Ratings Central Open	11/21/2004
	*

FIGURE 3. Submit-events window

2.2.8. *Unrated Prior.* The *Mean* and *Standard deviation* fields let you specify the mean and standard deviation of the playing strength of unrated players in the event. You must set both of these. See Chapter 9 on page 59 for advice on what to put in these fields.

2.2.9. *Status.* The *Modified* check box indicates whether you've made any modifications to the event, its players, or its results that require that the event be submitted or resubmitted. This is an informational check box, i.e., you can't change it. If the *Modified* check box is checked, then Cantor will submit this event the next time you submit events.

The *Submitted* check box indicates whether the event has ever been submitted. This is also an informational check box.

The *Submit failed* check box lets you tell Cantor that the previous submission of the event didn't work, i.e., wasn't received by Ratings Central. If you check this box, then Cantor will resubmit the event the next time that you submit events. You will need to re-check any player *New personal info* check boxes that were checked in the prior submission. See Section 1.2.12 on page 46 for more information on the *New personal info* check box.

For more information on submitting events, see Section 3 and Chapter 10 on page 63.

3. Submit

The *Submit* menu item brings up a window (Figure 3) that lets you submit events to Ratings Central. The menu item will be disabled if you haven't entered your director ID and password (in ::*Cantor > Set Up*) or haven't set up your Internet parameters (in ::*Cantor > Set Up Internet*).

3.1. Submit Events. Click the *Submit Events* button to submit results to Ratings Central. Clicking this button submits all events to Ratings Central that need to be submitted. You do not have to, nor can you, specify a single event to submit. The button will be disabled unless there are events to submit.

If an event has not been submitted before, then it will be submitted if it has any results. Once an event has been submitted, it will be resubmitted if you've made any changes to the event, its players, or its results that Ratings Central needs to know about.

5. EVENTS MENU

You can tell if an event will be submitted by looking at the grid in *::Events > Select Current*. Cantor will submit the event if the row for the event says "Modified" or "Submit Failed". You can also look on the *Edit* page of the notebook to see if either the *Modified* check box or the *Submit failed* check box is checked.

See Chapter 10 on page 63 for what happens when you submit events.

If you need to correct any of the match results, player data, or other information that you submitted, just correct them and then click the *Submit Events* button to submit the events again. If you are correcting a player's personal information, you will have to check the player's *New personal info* check box. Do not check the *New personal info* check box if you are only correcting a player's ID, rating, or unrated prior. See Section 1.2.12 on page 46 for more information on the *New personal info* check box. See Section 1 on page 64 for how to fix a duplicate player.

3.2. Previous Submissions. The grid at the bottom of the window shows each submission of an event. The grid works like Cantor's other grids (see Section 9 on page 77). The "Submitted" column is the date and time that Cantor sent the event to Ratings Central.

Players Menu

The *Players* menu contains items that let you add players to, modify players in, and print lists of the players in the current event. The current event is the one that is displayed in the main window and which you selected via *::Events > Select Current*.

1. Modify

The *Modify* menu item brings up a tabbed-notebook window (Figure 1) that lets you add and modify players in the current event and access the rating list. This menu item will be disabled until you have selected a current event.

1.1. Browse. The first page of the notebook (the *Browse* page) contains a grid listing the players along with various information about each player. The grid works like Cantor's other grids (see Section 9 on page 77). The columns of the



FIGURE 1. Modify-players window

6. PLAYERS MENU

🤱 Edit Player	06-0	x
<u>N</u> ame: O'Neill, Se	an Patrick	Browse
Address <u>1</u> :		Ë
Address <u>2</u> :		dit
City:	<u>S</u> tate: VA ▼	
P <u>r</u> ovince:	Postal code: 22903	
Country: United St	ates The Email: sean@ratingscentral.com	
Se <u>x</u> : Male	Rating: 2445	
New personal in <u>f</u> o:	Standard deviation: 43 Standard deviation:	
Club Virginia Table Te	nnis Association Change Clear Save Cancel	

FIGURE 2. Edit-player page

player grid display information that you can also view on the *Edit* notebook page. Each column is described below when we describe the *Edit* page.

The *Find* field lets you search for a specific player. This is an incrementalsearch field, so you can type just the first part of what you are searching for and the grid will move to the first matching player. The search happens after every keystroke. The value you type must be the sort of thing that is in the column that the grid is sorted on, e.g., if you want to search for a player by name, you must sort the grid by name by clicking on the button in the header of the "Name" column.

The *Add Player* button switches to the *Edit* page to let you add a new player to the event. The *Edit* button switches to the *Edit* page for the currently selected player; you can also click the *Edit* notebook tab or double-click the player's row. The *Close* button closes the window.

Press (Ctrl+Del) to delete the player that is highlighted. The grid must have the focus for you to delete a player. Cantor will not let you delete a player who has any results. (To delete the player, first delete the player's results.) You can tell whether you can delete the highlighted player by whether the words "Ctrl+Del: Delete Player" just below the grid are dimmed or not.

The *Rating List* button brings up the rating-list browser. See Section 1.3 on page 47 for more information on the rating-list browser.

1.2. Edit. Figure 2 shows the *Edit* notebook page. This notebook page handles navigation and saving just like the *::Events > Select Current > Edit* notebook page (see Section 2.2.1 on page 39).

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1.2.1. *Name*. Enter the player's name in the *Name* field with the last (family) name first, then a comma, then the first and middle names. If the player's name has a suffix, e.g., "Jr.", add that after a comma at the end. Since Cantor identifies players by their name, you cannot have two players in an event that have exactly the same name.

The button to the right of the *Name* field brings up the rating-list browser positioned on the player in the rating list whose name is closest to the name you have in the *Name* field. The button will be disabled unless you've imported a rating list. The shortcut key for the button is $\langle Ctrl+N \rangle$. This shortcut key also works from the *Browse* page of the notebook. See Section 1.3 on page 47 for more information on the rating-list browser.

1.2.2. *IDs.* Enter the player's Ratings Central ID number in the *Ratings Central* field. If the player does not have a Ratings Central ID (because this is the first time that the player has played), then leave the field blank.

The button to the right of the *Ratings Central* field brings up the rating-list browser positioned on the player whose Ratings Central ID is closest to the value in the *Ratings Central* field. The button will be disabled unless you've imported a Ratings Central rating list. The shortcut key for the button is (Ctrl+R).

Enter the player's USATT ID number in the *USATT* field. Ratings Central will save the USATT ID in its database to help identify the player, but does not use the USATT ID for any other purpose. If the player does not have a USATT ID, then leave the field blank.

The button to the right of the *USATT* field brings up the rating-list browser positioned on the player whose USATT ID is closest to the value in the *USATT* field. The button will be disabled unless you've imported a rating list. The shortcut key for the button is $\langle Ctrl+U \rangle$.

Enter the player's TT Australia ID number in the *TT Australia* field. Ratings Central will save the TT Australia ID in its database to help identify the player, but does not use the TT Australia ID for any other purpose. If the player does not have a TT Australia ID, then leave the field blank.

The button to the right of the *TT Australia* field brings up the rating-list browser positioned on the player whose TT Australia ID is closest to the value in the *TT Australia* field. The button will be disabled unless you've imported a Ratings Central rating list. The shortcut key for the button is $\langle Ctrl+T \rangle$.

See Section 1.3 on page 47 for more information on the rating-list browser. The shortcut keys for the rating-list-browser buttons also work from the *Browse* page of the notebook.

1.2.3. *Address*. Enter the player's address in the *Address 1* and *Address 2* fields. If you only need one line for the player's address, leave the *Address 2* field blank.

1.2.4. *City*. Enter the player's city in the *City* field.

1.2.5. *State.* Set the *State* field to the state (for the USA) or province (for Canada) that the player is from. For countries other than the USA and Canada, the field will be disabled. When you add a new player, Cantor initializes the state to the state of the event, since most new players are from the state that the event is in.

1.2.6. *Province.* If the player is from a country other than the USA or Canada and their mailing address includes a province, enter it in the *Province* field. The field will be disabled if the player is from the USA or Canada. Please, use the *State* field for Canadian provinces.

1.2.7. *Postal Code.* Enter the player's postal code in the *Postal code* field.

1.2.8. *Country*. Set the *Country* field to the country that the player is from. When you add a new player, Cantor initializes the country to the country of the event, since most new players are from the country that the event is in.

1.2.9. *Email.* Enter the player's email address in the *Email* field. Enter only the email address; don't include angle brackets or a display name.

When you submit an event, Ratings Central will send an email to each player who played in the event to let them know that the event has been posted. The email will contain a link to the results on the Ratings Central website and a link so that the player can opt out of receiving future emails. Of course, the player will only receive the email if Ratings Central has the player's email address. At most one email will be sent to a player for a given event. So, if you resubmit an event (to make corrections), players who were in the first submission will not receive a second email.

1.2.10. Sex. Set the Sex field to the player's sex.

1.2.11. *Birth*. Enter the player's birth date in the *Birth* field. Use the year-month-day order that matches your Windows regional settings.

1.2.12. *New Personal Info.* Check the *New personal info* check box if the personal information that Ratings Central has for the player is incorrect or incomplete and you are updating it.

The *New personal info* check box only applies to the personal information fields, i.e., the *Name, IDs > USATT, IDs > TT Australia, Address 1, Address 2, City, State, Province, Postal code, Country, Email, Sex, Birth, and Club fields.* If you check the *New personal info* check box, the values in all these fields will be sent to Ratings Central and will replace the corresponding information for the player that Ratings Central has. Note that this includes any fields that you clear. For example, if you clear a player's *Email* field and check the *New personal info* check box, then after you've submitted the event, Ratings Central will not have an email for the player. Also note that if you check the *New personal info* check box, you should make sure that all of the personal information fields for the player have the correct information since all of them will be sent to Ratings Central.

Do not check the *New personal info* check box if you only make changes to the *Rating*, *Standard deviation*, or *Unrated prior* fields, since the check box has nothing to do with these fields.

Generally, you should not check the *New personal info* check box if you change the *IDs* > *Ratings Central* field. (The most common reason you would change the *IDs* > *Ratings Central* field is if a player has two Ratings Central IDs, an original one and a duplicate, and you are changing the value in the field to the player's original ID.) The Ratings Central ID is not personal information about the player, but rather identifies who the player is. If you change the *IDs* > *Ratings Central* field and also check the *New personal info* check box, then this means that you want Ratings Central to update the personal info for the player who corresponds to the new ID. This is unlikely to be what you want.

See Chapter 10 on page 63 for more information.

The *New personal info* check box will be disabled if the player's *IDs* > *Ratings Central* field is blank and the event has not been submitted (since there is no old info in this case to update). When you submit the event, Cantor will clear the *New personal info* check box (since the new info has now been sent to Ratings Central).

Note that Cantor only submits a player to Ratings Central if the player has played at least one match. So, checking the *New personal info* check box will have no effect if the player doesn't play any matches in the event.

1.2.13. *Rating.* Enter the player's rating in the *Rating* field. If the player is unrated, leave the field blank or enter an estimated rating. This field is not submitted to Ratings Central when you submit the event. It is only for your information. It is displayed in the player grid (on the *Browse* page of the notebook) and the result grid (in the main window) and printed on the player and result lists (when you do *::Players > Print* or click the *Print Results* button in the main window).

Note that the Ratings Central and USATT rating scales are different. See Chapter 9 on page 59 for advice on converting between the two scales.

1.2.14. *Standard Deviation.* Enter the player's standard deviation in the *Standard deviation* field. If the player is unrated, leave the field blank or enter an estimated standard deviation. This field is not submitted to Ratings Central when you submit the event. It is only for your information. It is displayed in the player and result grids and printed on the player and result lists.

1.2.15. *Unrated Prior*. The *Mean* and *Standard deviation* fields in the *Unrated prior* box let you specify the mean and standard deviation of the playing strength of the player, if this is the player's first event. You can leave these fields blank, but if you set one, you must set both. See Chapter 9 on page 59 for advice on what to put in these fields.

1.2.16. *Club.* The *Club* box shows the club that the player is from. A player can be from more than one club, but Cantor only lets you set one club for a player. The club you set for the player in Cantor will be the player's primary club. To add a secondary club for the player, you must go to the Ratings Central website and log in (see Section 5 on page 31). A player doesn't have to belong to a club. If you change an existing player's primary club (and check the *New personal info* check box), the player will still be a secondary member of the old primary club. To remove the player completely from the club, you must go to the Ratings Central website and log in.

You set or change the player's club just as you do for the event club on the *::Events > Select Current > Edit* notebook page (see Section 2.2.7 on page 40). If the player's club is not set, then when you click the *Change* button, the club browser will come up with the event club selected. Since most new players are from the club that is sponsoring the event, this makes it easy to set these players' clubs.

1.3. Rating-List Browser. The rating-list browser (Figure 3 on the next page) lets you view the rating list. You can bring up the rating-list browser from either page of the player notebook or from the *::Lists > Rating* menu item. From the *Browse* page of the player notebook you can click the *Rating List* button. From

6. PLAYERS MENU

3	🔒 Rating List									
	ID	Name 🗠	Rating	St. Dev.	Club	State	Last Played	Postal Code	Country	>
	5581	Olsson, Marie	2325	70	Pro Tour		3/1/2004		SWE	
	8613	Omar, Rashid	2791	126	Pro Tour		5/4/2004		UAE	
	5470	Omoding, Julius	2482	181	Pro Tour		7/4/2001		UGA	
	5280	Omori, Takahiro	2890	85	Pro Tour		3/19/2004		JPN	
Þ	6528	O'Neill, Sean Patrick	2629	118	UVA TTC	VA	4/23/2004	22903	USA	
	9075	Ong, Michael	1756	57		MA	7/10/2004	01810	USA	
	6559	Ongking, Christine	712	250	UVA TTC	VA	2/27/2002		USA	
	8724	Ono, Tatuya	2631	169	Pro Tour		1/24/2004		JPN	
	8938	Opazo, Rodrigo	2605	132	Pro Tour		6/17/2004		CHI	
	5641	Opdencamp, Karen	2254	101	Pro Tour		11/6/2003		BEL	~
<	1								>	
	Eind: O'Neill, Sean Patrick <u>A</u> dd Player <u>O</u> verwrite Player <u>New</u> Player <u>Close</u>									

FIGURE 3. Rating-list browser

the *Edit* page, you can click any of the buttons that show a hand pointing to a list of records. From either page, you can use the $\langle Ctrl+N \rangle$, $\langle Ctrl+R \rangle$, $\langle Ctrl+U \rangle$, and $\langle Ctrl+T \rangle$ shortcut keys. These bring up the rating-list browser on the player whose name, Ratings Central ID, USATT ID, or TT Australia ID (respectively) is closest to that of the player that you are editing or that you have selected in the grid on the *Edit* page. A button and shortcut will be inactive unless you've imported a suitable rating list via ::*Lists > Import*.

The rating-list grid works like Cantor's other grids (see Section 9 on page 77). The meaning of most of the columns should be obvious. The "Last Played" column contains the date of the last event that the player played. The "Source" column indicates whether the record came from Ratings Central ("R.C.") or USATT. The "Expiration" column contains the player's USATT membership expiration date. If the player has a life membership, the "Expiration" column will say, "Never".

The *Find* field lets you search for a specific player. It works like Cantor's other incremental-search fields (see Section 9.1 on page 77).

Click the *Add Player* button to close the rating-list browser and add the selected player to the current event. If you were editing a player (i.e., you were on the *Edit* page of the player notebook), Cantor will save any changes you made to the player. Then Cantor will add a new player to the current event and copy the information for the player you selected in the rating-list browser from the rating list to the new-player's fields, all ready for you to save the player.

Click the *Overwrite Player* button to close the rating-list browser and overwrite the player you were editing or had selected in the player grid with the player you selected in the rating-list browser.

Click the *New Player* button to close the rating-list browser and add a new, blank player to the current event. If you were editing a player, Cantor will save any changes you made to the player. If the rating-list grid is sorted on the "Name" column, Cantor will set the new-player's name to the contents of the *Find* field. If

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2. COPY FROM EVENT

3	Copy Pla	yers from	Event				X
	<u>D</u> ate ⊻	<u>N</u> ame			State	Cou	^
Þ	5/13/2004	Thursday Nig	jht RR		VA	U	
							-
<						>	•
Ī	Update info fr	om rating list	: 🗆	ОК		Cancel	

FIGURE 4. Copy-players-from-event window

the string in the *Find* field is all lower case, Cantor will capitalize the initial letters of words when setting the new-player's name. This makes it easy to add a player when you discover that the player you are looking for is not in the rating list.

Click the *Close* button to close the rating-list browser without changing the players in the event.

If you open the rating-list browser from the *Rating List* button on the *Browse* page, the *Overwrite Player* button will be disabled. If you open the rating-list browser from the ::*Lists > Rating* menu item, the *Add Player*, *Overwrite Player*, and *New Player* buttons will be disabled.

If the *Overwrite Player* button is enabled, then you can double-click a player in the grid to overwrite the player you are editing with the player you double-clicked. If the *Overwrite Player* button is disabled, but the *Add Player* button is enabled, then you can double-click a player in the grid to add the player to the current event.

If the list database folder is set (see Section 2.2 on page 28), the title bar of the window shows the folder's location.

2. Copy from Event

The *Copy from Event* menu item brings up a window (Figure 4) that lets you copy players from another event into the current event. This is a convenient way to add players to the current event if another event has many players in common with the current event. The menu item will be disabled if you don't have at least two events.

Select the other event in the grid. Then click the *OK* button. Cantor will copy the players from the selected event to the current event. Cantor will only copy players that have Ratings Central ID numbers. Cantor will not copy a player if the player's name or player's Ratings Central, USATT, or TT Australia ID number is the same as that of a player who is already in the current event.

You can also double click the event in the grid. This will select the event and immediately copy the players.

If you check the *Update info from rating list* check box, then Cantor will replace each copied player's information (i.e., name, address, rating, etc.) with the player's information from the rating list.

6. PLAYERS MENU

🤰 Import Player	s 📃 🗆 🗙				
Organization:	Ratings Central 🔻				
ID list:	C:\Doc\PlayerIDs.txt 📔				
Import Cancel					

FIGURE 5. Import-players window

Note that if you create an event and add players to it, but never add any results to it, then Cantor will never submit it. So, for example, you could create a dummy event containing the members of your club and copy the players from this dummy event to each new event that your club runs.

3. Import

The *::Players > Import* menu item brings up a window (Figure 5) that lets you import players from the rating list into the current event. The menu item will be disabled until you have selected a current event and have imported a rating list.

You specify the players to import by providing a text file containing IDs. The file must have each ID on its own line. Blank lines are ignored, as are leading and trailing spaces and tabs.

You can construct this file in many ways. Possibilities include the following: You could keep or create a list of players in Excel or Microsoft Access, then write the IDs to a file (e.g., *Save As Text*) or copy them into a text editor such as Notepad. You could open the Ratings Central rating list in Excel, sort and filter it to make it more manageable, mark the players who are coming to your event, sort them to the top or filter to select just them, then copy the IDs to Notepad. You could copy a list of players from a page on the Ratings Central website, then edit the list to contain the IDs that you want.

Set the *Organization* drop-down list to the organization that assigned the IDs. If you have imported a Ratings Central rating list, then you can use IDs from Ratings Central, USATT, or TT Australia. Note that it is up to event directors to enter the USATT and TT Australia IDs into the Ratings Central database, so these values may be missing for some players on the Ratings Central rating list. If the only rating list that you have imported is from USATT, then you can only use IDs from USATT, since these are the only IDs on the USATT rating list.

Type the filename of the file of IDs in the *ID list* field. Include the path to the folder where the file is. Alternatively, click on the button at the right of the field to browse for the file.

Click the *Import* button to import the players. If any players cannot be imported, Cantor will display a window listing the IDs that could not be imported and the reason. The possible reasons are

• Bad value for ID. The ID value is not an integer or not in the correct range.

4. PRINT					
Print Player	Lists 🛛 🔀				
Sorted by <u>Name</u> <u>Rating</u>	OK Cancel				

FIGURE 6. Print-lists window

Rating	Unrated Prior	Name
1827±32		James, David H.
2445±43		O'Neill, Sean Patrick

FIGURE 7. Player list sorted by name

- Already a player in event with ID.
- ID not found on rating list.
- More than one player on rating list with ID. So, it isn't clear which player should be imported.
- ID from a different organization conflicts with a player in event. The player was found on the rating list, but the record for the player in the rating list includes an ID from a different organization that is the same as a player already in the current event.
- •
- Already a player in event with same name. Since Cantor identifies players by their name, you cannot have two players in an event that have exactly the same name.

If you have imported rating lists from both USATT and Ratings Central and are importing players by specifying USATT IDs, then Cantor will first look for the player on the Ratings Central list, and import that record, if there is one. If there isn't one, then it will look for the player on the USATT list.

If the state or country on the rating list are not valid, Cantor will use the state and country values for the current event.

If the gender value on a USATT rating list record is missing, Cantor will use male.

4. Print

The *Print* menu item brings up a window (Figure 6) that lets you print lists of the players in the current event.

If you check the *Name* check box, Cantor will print a player list sorted alphabetically (see Figure 7). If you check the *Rating* check box, Cantor will print a player list sorted in order of rating (see Figure 8 on the next page). The latter list also shows the seeding of each player in the event.

Seed Rating Name

- 1 2445 ± 43 O'Neill, Sean Patrick
- 2 1827±32 James, David H.

FIGURE 8. Player list sorted by rating

Main Window

Figure 1 shows Cantor's main window. The main menu is at the top. Below that is the name and date of the current event. Below that is a grid showing all the match results for the current event. The grid works like Cantor's other grids (see Section 9 on page 77).

The event date is displayed using long date format specified in your Windows regional settings. You can change these settings in *Control Panel > Regional and Language Options*.

Press (Ctrl+Del) to delete the result that is highlighted. The grid must have the focus for you to delete a result.

The "#" column shows the order in which you entered the results. So, result #1 is the first result that you entered for the event, result #2 is the second, etc. Deleting a result does not change the numbers of the other results.

The status bar at the bottom of the window shows the location of the database folder.

2	Can	tor 7.2					x
	<u>P</u> layer:	s <u>E</u> vents L <u>i</u> sts	s <u>C</u> antor				
			R	atings Central (Open		
			Sunda	ay, November	20, 2011		
Γ	<u>#</u> 💌	Winner Rating	Winner Name	Loser Rating	<u>L</u> oser Name	Score Score	•
	1	2445±43	O'Neill, Sean Patrick	1827±32	James, David H.	7,-4,10,2	
	2	1827±32	James, David H.	2445±43	O'Neill, Sean Patrick	9,-10,11,-7,8	
P							Ŧ
			Ctrl+Del: Delete R	esult New Re	esult <u>M</u> odify Res	sult P <u>r</u> int Result	5
l	C:\Use	ers\David\Docu	ments\Cantor				

FIGURE 1. Main window

7. MAIN WINDOW

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🤱 New Result	X
<u>W</u> inner	Loser
James, David H.	James, David H.
O'Neill, Sean Patrick	O'Neill, Sean Patrick
<u>S</u> core: 7 -4 10 2	No score: Match format: 3 of 5
ОК	Cancel

FIGURE 2. Result window

1. New Result

The *New Result* button brings up a window (Figure 2) that lets you enter results for the current event. The button will be disabled until you've added at least two players to the current event.

Select the winner in the *Winner* (left) list box and select the loser in the *Loser* (right) list box. In addition to using the mouse or cursor keys, you can also type the player's name. See Section 11 on page 78 for more information.

Set the *Match format* field to the format for the match. Choices are "2 of 3", "3 of 5", "4 of 7", "5 of 9", and "Games" (the "Games" choice is explained below). Cantor initializes the *Match format* field to the match format you selected for the event.

Enter the score for each game in the *Score* fields. Only enter the number of points that the loser of each game got. If the winner of the match lost a particular game, prefix that game's score with a minus sign. For example, if the scores for a match are 11–5, 10–12, 11–8, 11–3, enter "5", "-10", "8", and "3".

If you don't know the score for a result, but you know the number of games won and lost, you can select "Games" in the *Match format* field. If you don't know the score at all, you can check the *No score* check box.

Unlike most windows, the result window does not have a default button. Therefore the $\langle Enter \rangle$ key will behave more like the $\langle Tab \rangle$ key.

The result window is special in that when you press the $\langle Enter \rangle$ key, Cantor tries to be smart about which field or button to move to next. If you press $\langle Enter \rangle$ and you've entered a complete result, Cantor moves you to the *OK* button.

Click the *OK* button to store the result. Cantor will clear the window, but leave it up so you can enter another result. If you do not have any more results, you can press $\langle Enter \rangle$ to select the *Cancel* button (which is, for the moment, the default button) to close the window. Cantor will display the new results in the main window's grid.

2. Modify Result

To modify a result that you've already entered, either double-click the result or select the result in the grid and click the *Modify Result* button. This brings up

3. PRINT RESULTS

#	Rating	Winner	Rating	Loser	Score
1	1827±32	James, David H.	2445±43	O'Neill, Sean Patrick	9,9,-0,9
2	2445 ± 43	O'Neill, Sean Patrick	1827±32	James, David H.	2,-10,3,0

FIGURE 3. Result list

the result window (the same window you use for entering new results). Correct the information for the result and click the *OK* button.

3. Print Results

Click the *Print Results* button to print a list of all the results in the current event (see Figure 3). The list shows the same information that is displayed in the result grid. The results will be in the same order as they are in the grid. So, to change the printed order, change the order in the grid (by clicking the button in the header of a grid column).

Club Browser

The club browser (Figure 1) lets you view the club list and select the club of a player or event. You can bring up the club browser from the *Club* > *Change* button of the *Edit* pages of the player (*::Players* > *Modify*) and event (*::Events* > *Select Current*) notebooks or from the *::Lists* > *Club* menu item.

The grid works like Cantor's other grids (see Section 9 on page 77). The *Find* field lets you search for a specific club. It works like Cantor's other incremental-search fields (see Section 9.1 on page 77).

If you've brought up the club browser by clicking the player or event *Club* > *Change* button, then the *Select Club* button will be enabled. Click this button to make the club that is selected in the grid the club of the player or event.

R Clubs					×
	ID 🗠	Nic <u>k</u> name	Name	<u>C</u> ity	^
Þ	1	VTTA	Virginia Table Tennis Association	Charlottesville	
	2	BTTC	Boston Table Tennis Center	Medford	
					*
<				>	
ļ	Eind:		Select Club	Close	

FIGURE 1. Club browser

Unrated Players

When Ratings Central processes an event, it first assigns a prior mean and standard deviation to each unrated player in the event. (The adjective "prior" means that it is the player's mean and standard deviation prior to the start of the event.) If you entered a prior mean and standard deviation for the player (in *::Players > Modify > Edit > Unrated prior*), then it uses those values. If you didn't enter a prior mean and standard deviation for the player, then it uses the prior mean and standard deviation that you set for the event (in *::Events > Select Current > Edit > Unrated prior*). Note that it never uses the player's rating (in *::Players > Modify > Edit > Rating*) for the prior.

The following sections give detailed advice on how to set the individual player prior means and standard deviations and the event prior mean and standard deviation. If you have any questions or aren't sure what to do, please contact us for assistance; see http://www.ratingscentral.com/Problems.php for our email address.

Please get unrated players at your event as many matches with rated players of a similar playing level as you can. This will make the resulting ratings for these players more accurate.

Note that the Ratings Central rating scale (i.e., what playing strength a number corresponds to) is similar to, but not identical to, the USATT rating scale. To convert from the USATT rating scale to the Ratings Central scale, subtract 200 points; note that this conversion is only approximate and the number of points to subtract at lower ratings may be less. The Ratings Central rating scale is not the same as the ITTF rating scale or the Canadian Table Tennis Association rating scale.

1. Player Priors

The following advice for setting player priors assumes that you are very familiar with the rating scale, i.e., you know and play with many players who have established ratings. If this is not true, then you should probably rely on the event prior and rarely set individual player priors. If you aren't sure what to do, please contact us for assistance.

It is usually a good idea to set the prior mean and standard deviation for as many unrated players as you can. However, you should only set the prior mean and standard deviation for an unrated player if you have additional information about that player. The "additional information" can be any information other than the player's match wins and losses in the event (Ratings Central sees those). For example, you might know the player from before the event or you might watch the player play their matches or you might look at how many points the player scored in their matches.

If a player is different from the general population of unrated players at the event, e.g., much better or much worse (perhaps because they are very young), then it would be an especially good idea to set the player's prior mean and standard deviation.

If many or most of the players in your event are unrated, then it is especially helpful to the rating system if you can set the prior mean and standard deviation for as many of the unrated players as you can.

The prior standard deviation for a player measures how sure you are that you know that player's playing strength. You should be willing to bet at 1:2 odds that the player's playing strength is within one standard deviation of the mean, and you should be willing to bet at 2:1 odds that the player's playing strength is more than one standard deviation from the mean. (Odds of 1:2 mean that you win \$1 if you win the bet, but you lose \$2 if you lose the bet. Odds of 2:1 mean that you win \$2 if you win, but you lose \$1 if you lose.)

For example, suppose you assign a prior mean of 1200 and a prior standard deviation of 100 to a player. Then you should be willing to bet at 1:2 odds that the player is really between 1100 and 1300, and you should be willing to bet at 2:1 odds that the player is really less than 1100 or more than 1300. Equivalently, you should believe that there is a $^{2}/_{3}$ chance that the player is really between 1100 and 1300 and a $^{1}/_{3}$ chance that the player is really less than 1100 or more than 1300.

Here are some very rough guidelines: If you know an unrated player extremely well (e.g., they've been playing at your club every week for a couple of years), then you might use a prior standard deviation of 75. If you only know a player moderately well (e.g., they've come to your club a few times and played several matches with players of a similar level), then you might use a prior standard deviation of 125. If you know very little about a player (e.g., you had the player hit with a rated player of a similar level for five minutes), then you might use a prior standard deviation of 200.

If a player has a USATT rating, then that is a source of information. However, USATT ratings vary widely in their accuracy, so it is best to check that a player's USATT rating seems reasonable using your own knowledge of the player. USATT ratings have been drifting upward over time, and there are also significant regional differences. USATT ratings are currently probably 200 points higher on average than Ratings Central ratings. If all you know about a player is their USATT rating minus 200. For players rated at least 1000, use a prior standard deviation of 150. For players rated less than 1000, use a prior standard deviation of 250.

2. Event Prior

You must always set the event prior mean and standard deviation.

While the prior mean and standard deviation for a player measure what you know of the player's playing strength, it is best to interpret the event prior mean and standard deviation as describing the range of unrated players at your event. For example, if you think the unrated players range from 800 to 1400, then you

2. EVENT PRIOR

would use the average of these two values (i.e., 1100) as the mean and the difference of these two values divided by four (i.e., 150) as the standard deviation.

More precisely, about $^{2}/_{3}$ of the unrated players should be within one standard deviation of the mean (and about $^{1}/_{3}$ should be more than one standard deviation from the mean), 95% should be within two standard deviations, and 99.7% should be within three standard deviations. So, for the example in the previous paragraph of a mean of 1100 and a standard deviation of 150, you should think that

- ²/₃ of the players are between 950 and 1250,
- 95% of the players are between 800 and 1400,
- 99.7% of the players are between 650 and 1550.

Note that when estimating the event prior standard deviation from the range of players that you expect at your event, you should interpret the range as being plus or minus two standard deviations, not three.

If you set the prior mean and standard deviation for any individual unrated players, then the event prior mean and standard deviation should only describe the population of unrated players for whom you haven't set individual prior means and standard deviations. If you set the prior mean and standard deviation individually for every unrated player at your event, then Ratings Central won't actually use the event prior mean and standard deviation, but you still have to set them.

It is possible that a player that you thought was rated may become unrated because of a correction to some other event. If this happens, the event prior mean and standard deviation would be used for the player, even though you thought it wouldn't be. But, this eventuality is extremely unlikely, so not worth worrying about.

Submitting Events

This chapter describes what happens when you submit events.

When Cantor submits an event, it sends the following information to Ratings Central:

- Your director ID and password from :: Cantor > Set Up.
- All information on the :: *Events* > *Select Current* > *Edit* notebook page except for *Match format* and *Status*
- For each player in the event, all information on the *::Players > Modify > Edit* notebook page except for *Rating* and *Standard deviation* (the *Unrated prior > Mean* and *Unrated prior > Standard deviation* are sent)
- All results for the event, including the scores

The way that Ratings Central handles player information is a bit complicated. To make the explanation clearer, define the player's *RC-ID-and-rating information* to be the information in the *IDs* > *Ratings Central*, *Unrated prior* > *Mean*, and *Unrated prior* > *Standard deviation* player fields. Define the player's *personal information* to be the information in all the other fields that are sent to Ratings Central, i.e., the information in the *Name*, *IDs* > *USATT*, *IDs* > *TT Australia*, *Address* 1, *Address* 2, *City*, *State*, *Province*, *Postal code*, *Country*, *Email*, *Sex*, *Birth*, and *Club* fields.

While Cantor sends both the RC-ID-and-rating information and the personal information for each player in the event to Ratings Central, normally Ratings Central only copies the personal information for a player to its database if it is the first time that it has received information for that player. The reason for this is that suppose that you download a rating list, enter a player from the rating list in an event, don't make any changes to the player's personal information that was on the rating list, and submit the event. Also, suppose that in between the time that you download the rating list and the time that you submit the event, some other director makes a change to the player's personal information. If Ratings Central always copied the personal information to the Ratings Central database, then the old values that you submit would overwrite the changes that the other director made. Similarly, if you were to make a correction to an old event and resubmit it, all the old player personal information would overwrite the current information.

The exception to this rule of not copying personal information for players already in the Ratings Central database is if you check the *New personal info* check box for the player (the check box is on the *::Players > Modify > Edit* notebook page). If you check this check box, it tells Ratings Central that you have updated the player's personal information and that Ratings Central should replace the player's personal information in its database with the information that you are submitting. See Section 1.2.12 on page 46 for specific instructions on when you should check the *New personal info* check box. You can also update a player's personal information by logging in to the Ratings Central website.

Note that the only changes to the *::Players > Modify > Edit* notebook page for a player in an already submitted event that will cause Cantor to consider the event to be modified (and so resubmit the event) are changes to the player's RC-ID-and-rating information or checking the *New personal info* check box.

When Ratings Central processes an event, it assigns a Ratings Central ID number to any player in the event who doesn't have one. You use this ID number to identify the player in subsequent events, typically by downloading and importing an updated rating list or by entering the ID number in the *IDs* > *Ratings Central* field in the *::Players* > *Modify* > *Edit* notebook page.

Cantor and Ratings Central keep track of which player without a Ratings Central ID is assigned which Ratings Central ID, so resubmitting an event will work correctly, even if it contains new players that don't have Ratings Central IDs. You only need to use the Ratings Central ID for the player when they play in a subsequent event.

When Ratings Central finishes processing the ratings for an event, it will send you an email like the one in Figure 1 on the next page. (If there are no results in the event, then it won't send you an email.) If there is a problem with an event that you submit, Ratings Central will send you an email like the one in Figure 2 on page 66.

Ratings Central will send an email to each player who played in the event to let them know that the event has been posted. The email will contain a link to the results on the Ratings Central website and a link so that the player can opt out of receiving future emails. Of course, the player will only receive the email if Ratings Central has the player's email address. At most one email will be sent to a player for a given event. So, if you resubmit an event (to make corrections), players who were in the first submission will not receive a second email.

When Ratings Central receives an event (or a resubmitted event), it processes the ratings for the event and also processes all subsequent events that any of the players in the event (or in a subsequent event that is being processed) played in. Please be careful when viewing old events or results that you don't click the *Save* button even though you haven't really changed anything.

1. Duplicate Players

If you neglect to enter a player's Ratings Central ID number for a player who has one (typically because, although the player had played before, you didn't notice them listed on the rating list), then when you submit the event, the player will end up in the Ratings Central database twice, i.e., there will be two Ratings Central ID numbers that are really the same player.

The way to fix this is to enter the player's first Ratings Central ID number (the ID number that you neglected to enter, not the new one) in the *IDs* > *Ratings Central* field and resubmit the event. After you do this, the second ID number will be for a player who has not played at all. The system automatically deletes players who haven't played.

1. DUPLICATE PLAYERS

From: Ratings Central Subject: Event processed by Ratings Central To: David Marcus Date: Wed, 30 Jul 2003 21:38:26 -0400

Event: Ratings Central Open Event date: July 20, 2003 Submitted: July 30, 2003, 9:38 pm Status: Processed

Thank you for submitting this event to Ratings Central. We have finished processing it.

Summary report:

http://www.ratingscentral.com/EventSummary.php?EventID=1138

Detailed report:

http://www.ratingscentral.com/EventDetail.php?EventID=1138

Here is the information that we have for you:

Name (Last, First): Marcus, David Email: abc@xyz Director ID: 5044 Title: Clubs: Boston Table Tennis Center Address: 25 Beacon St. Apt. 16 City: Somerville State: Massachusetts Postal code: 02143-4336 Country: USA Phone: 617-492-4317 Sport: Table Tennis

If any of this information is incorrect or missing, please log into the Ratings Central website to correct it.

Ratings Central www.ratingscentral.com

Official Ratings/Rankings of the Austrian Table Tennis Association, the Lower Austrian Table Tennis Association, the Salzburg Table Tennis Association, the Carinthian Table Tennis Association, the Burgenland Table Tennis Association, the Tyrolean Table Tennis Association, the Vienna Table Tennis Association, the Styrian Table Tennis Association, Table Tennis Queensland, the Tasmanian Table Tennis Association, and the Hardbat English Association Of Table Tennis.

FIGURE 1. Event-processed email

From: Ratings Central Subject: Incorrect Ratings Central password To: David Marcus Date: Wed, 30 Jul 2003 21:13:44 -0400

Event: Ratings Central Open Event date: July 30, 2003 Submitted: July 30, 2003, 7:27 pm Status: Problem

The director's password is not correct or the director is not authorized.

Ratings Central www.ratingscentral.com

Official Ratings/Rankings of the Austrian Table Tennis Association, the Lower Austrian Table Tennis Association, the Salzburg Table Tennis Association, the Carinthian Table Tennis Association, the Burgenland Table Tennis Association, the Tyrolean Table Tennis Association, the Vienna Table Tennis Association, the Styrian Table Tennis Association, Table Tennis Queensland, the Tasmanian Table Tennis Association, and the Hardbat English Association Of Table Tennis.

FIGURE 2. Problem email

Actually, you can keep either of the two player IDs by changing the events for the other ID and resubmitting. So, you can keep the second ID, if that is easier, which it may be if different or multiple directors submitted events for the players.

If you need another event director to remove a duplicate, please contact them directly. If that doesn't work, please contact us; see http://www.ratingscentral.com/Problems.php for our email address.

66

Mistakes and Errors

This chapter discusses Cantor's handling of mistakes or errors in what you type or click. To correct information that Cantor submitted to Ratings Central, see Section 3 on page 41.

Cantor checks all values you enter or selections you make to ensure that they are valid and consistent with all other values. On the other hand, Cantor almost never asks you to confirm your selections, i.e., it will do what you tell it without asking you if you really mean it. (Such confirmation dialogs rapidly become tedious and are often ignored anyway.) If you do make a mistake, Cantor provides ways to correct it.

If you enter a value that is not valid, Cantor displays an error-message window (Figure 1). In this window, you *cannot* select the *Close* button by pressing (Enter) or (Space). This is so you won't accidentally close the window without noticing it was there. To close the window, you can click the *Close* button or press the (Esc) key. You can also use the standard Windows ways of closing windows, i.e., click the "×" in the title bar or press (Alt+F4).

You can copy the message to the clipboard via $\langle Ctrl+C \rangle$. You can select all of the message text via $\langle Ctrl+A \rangle$. You can select part or all of the message with the mouse. Once you click in the message with the mouse, you can use the usual keyboard keys to change the selection, e.g., $\langle Shift+Right \rangle$. If part or all of the message is selected, $\langle Ctrl+C \rangle$ copies the selected text to the clipboard. If nothing is selected, then $\langle Ctrl+C \rangle$ copies the entire message to the clipboard.



FIGURE 1. Error-message window

APPENDIX A

Who Was Cantor?

Georg Cantor (1845–1918) was a famous mathematician who founded set theory and introduced the concept of infinite numbers with his discovery of cardinal numbers. He also advanced the study of trigonometric series. Ernst Zermelo (1871–1953) was also a famous mathematician who developed an axiom system to lend structure to Cantor's set theory.

Cantor (the software system) can handle results from any sort of table-tennis event, structured or not, while Zermelo (the other software system that you can use with Ratings Central) handles tournaments that are more structured.

APPENDIX B

Screen Resolution and Font Size

Windows lets you set the screen resolution via *Control Panel > Display > Settings > Screen resolution* (this is for Windows XP—in other versions of Windows, the setting may be in a different place). Cantor will work at any screen resolution, but the higher the resolution, the smaller Cantor's text will be.

Windows also lets you set the font size (e.g., large or small fonts) via *Control Panel > Display > Settings > Screen resolution > Advanced > General > DPI setting* (again this is the Windows XP location). However, Cantor will ignore this setting.
APPENDIX C

User Interface

This chapter gives detailed information on Cantor's user interface, i.e., how to use the keyboard and mouse with Cantor.

1. Persistence

Cantor remembers the position and size of all windows, the size and order of grid columns, which column each grid is sorted on, and the selected printer. Cantor remembers this information both during a single invocation and between invocations. To do this, Cantor writes the information to the file Cantor.iniin the database folder. You can delete the Cantor.inifile if you want Cantor to revert to the default positions, sizes, etc.

2. Basic Window Operation

The buttons in the top-right of a window's title bar work just as they do for other Windows applications to minimize, zoom, or close the window. You can right-click the title bar or press $\langle Alt+Space \rangle$ to activate the Windows system menu. You can close a window by pressing $\langle Alt+F4 \rangle$. You can resize a window by dragging its border with the mouse. A few of Cantor's windows cannot be resized while some others can have their width changed, but not their height. (In the latter case, Windows doesn't know that the window can only be resized in one dimension and so will change the mouse cursor if you hover over any of the borders.) You can maximize a window by double-clicking its title bar and restore it to its previous size by double-clicking it again. And, of course, you can move a window to a new position by dragging its title bar with the mouse.

Note that closing a window by $\langle Alt+F4 \rangle$ or clicking the close button in the title bar (i.e., the "×" button) is similar to clicking the *Cancel* or *Close* button (whichever the window has). So, if you are currently editing something (e.g., an event or player), any edits that you've made will be discarded. The $\langle Esc \rangle$ key is generally the same as pressing the *Cancel* or *Close* button.

3. Scroll Bars

Scroll bars work just as they do for other Windows apps. Click one of the arrow buttons to scroll one line or column. Click the area between the arrow buttons and the *thumb* (i.e., the slider in the middle of the scroll bar) to scroll by one screenful. Drag the thumb to scroll a variable amount. Scroll bars in grids work slightly differently; see Section 9 on page 77.

🤱 Ed	it Event	
	Name: Thursday Night RR Date: May 8, 2004 Match format: 3 of 5 ▼ State: MA ▼ Country: USA ▼ Club Boston Table Tennis Center Change Clear	Edit
	Unrated players <u>M</u> ean: 1300 Standard de <u>v</u> iation: 350 Standard de <u>v</u> iation: 350 Cancel	

FIGURE 1. Window showing disabled and read-only controls

4. Focus

A *control* is a menu, grid, button, edit field, drop-down list, check box, radio button, etc. The control that is currently receiving keyboard input is said to have the *focus*. The $\langle Tab \rangle$ key moves the focus to the next control while $\langle Shift+Tab \rangle$ moves the focus to the previous control. Controls generally show that they have the focus by either some sort of highlighting or by displaying a dotted focus rectangle. Windows may hide the focus rectangle until you use the keyboard; to turn off this "feature", see Section 6 on the facing page.

5. Disabled and Read-Only Controls

Controls can be enabled, disabled, or read-only. When a control is disabled, its background is the same color as the window and its label is grayed. A control will be disabled if it doesn't currently apply. When a control is read-only, its background is the same color as the window, but its label is displayed normally. A control will be read-only if it does apply, but you aren't allowed to change it.

For example, in Figure 1, the *Submitted* check box is read-only while the *Submit failed* check box is disabled (because until an event is submitted, the submission can't have failed). The *Club* field is a bit unusual. It is shown as read-only because you can't change it by editing the club's name, but you can change it by clicking on the *Change* button.

6. THE MAIN MENU

TABLE 1. Main-window shortcut keys

Action		Кеу
	Modify	$\langle P \rangle$
<u>P</u> layers	Cop <u>y</u> from Event	$\langle Y \rangle$
	Imp <u>o</u> rt	$\langle 0 \rangle$
	Prin <u>t</u>	$\langle T \rangle$
Evonts	Select Current	$\langle E \rangle$
Events	<u>S</u> ubmit	$\langle S \rangle$
	<u>I</u> mport	$\langle I \rangle$
Lists	Browse Rating	$\langle G \rangle$
	Browse <u>C</u> lub	$\langle C \rangle$
	E <u>x</u> it	$\langle X \rangle$
	Set <u>U</u> p	$\langle U \rangle$
Cantor	Set Up Internet	
Cuntor	Select Printer	
	Visit We <u>b</u> site	$\langle B \rangle$
	Display <u>V</u> ersion	$\langle V \rangle$

6. The Main Menu

The main menu (and Cantor's only menu) is at the top of Cantor's main window. Each menu and submenu item has one letter underlined.

If you don't see the underlines, then the underlines should appear if you press (Alt). You can also tell Windows to always show the underlines: In Windows XP, uncheck *Control Panel > Display > Appearance > Effects > Hide underlined letters for keyboard navigation until I press the Alt key.* In Windows Vista and Windows 7, check *Control Panel > Ease of Access > Change how your keyboard works > Underline keyboard shortcuts and access keys.* This setting may also affect whether the focus rectangle is hidden until you use the keyboard.

You can select a menu or submenu item by pressing $\langle Alt \rangle$ and the underlined letter. If the menu has the focus, you can just press the letter without holding down the $\langle Alt \rangle$ key. You can toggle the focus between the menu and the rest of the main window by pressing $\langle Alt \rangle$ or $\langle F10 \rangle$.

If the menu has the focus, then (Left) moves to the previous menu item, or if a submenu is displayed, displays the previous submenu. Similarly, (Right) moves to the next menu item or submenu. (Up) and (Down) move to the previous or next submenu item. If no submenu is displayed, then they display the submenu. (Enter) selects the current menu or submenu item. (Esc) closes a submenu. If no submenu is open, then it gives the focus back to the rest of the main window.

Most of the submenu items have a single letter to their right. This letter specifies the *shortcut key* for the item. You can press the shortcut key to select the submenu item. For example, there is a "P" next to *::Players > Modify*. If you press $\langle P \rangle$, it is the same as clicking on *Modify*. The shortcut keys only work if the main menu doesn't have the focus (which is normally the case). Table 1 lists the menu items and shortcut keys. The underlined letters in the table show how the shortcut keys were chosen.

	🔒 Can	tor 7.2								
	Players Events Lists Cantor									
	Ratings Central Open									
	Sunday, November 20, 2011									
ſ	<u>#</u> 💌	Winner Rating	Winner Name	Loser Rating	<u>L</u> oser Name	Score 🗌	•			
ľ	1	2445±43	O'Neill, Sean Patrick	1827±32	James, David H.	7,-4,10),2			
	2	1827±32	James, David H.	2445±43	O'Neill, Sean Patric	k 9,-10,1	1,-7,8			
							-			
			Ctrl+Del: Delete Re	esult <u>N</u> ew Re	sult <u>M</u> odify R	esult P <u>r</u> in	nt Results			
	C:\Use	ers\David\Docur	ments\Cantor				.::			

FIGURE 2. The Modify Result button is the default button

Each submenu has one item in bold. If you double-click a main menu item, then the submenu item in bold will be selected.

7. Enter Key

Most windows have a default button that will be selected if you press $\langle Enter \rangle$ even if the button does not have the focus. For example, in Figure 2, the *Modify Result* button is the default button. If there is no default button and the field that has the focus does not respond to the $\langle Enter \rangle$ key, then the $\langle Enter \rangle$ key moves the focus to the next field. If a button has the focus, then the $\langle Enter \rangle$ key always clicks the button.

8. Accelerator Keys

Most labels have an underlined letter. (If you don't see the underlines, see Section 6 on the preceding page for how to tell Windows to show them.) You can press $\langle Alt \rangle$ plus the key corresponding to the letter to move the focus to the associated control. If the control you are moving to is a button, it will also be clicked. If the control is a check box, it will be toggled (i.e., checked if unchecked and vice versa). If the control is a radio button, it will be selected. If the control that has the focus doesn't respond to letter keys (e.g., a button or an edit field that only accepts numbers), then you don't have to hold down the $\langle Alt \rangle$ key—just press the letter key. Note that drop-down lists do respond to letter keys.

9. GRIDS

9. Grids

Cantor uses grids to display events, players, clubs, results, and submissions. You can find grids in the main window and in ::*Lists > Rating*, ::*Events > Select Current*, ::*Players > Modify*, as well as a few other places.

The selected item in a grid is indicated by a right-pointing arrowhead in the leftmost column. If the grid has the focus, then the selected item is also highlighted.

The scroll bars in grids are standard Windows scroll bars with the following differences: Click the area between the arrow buttons and the thumb of the horizontal scroll bar to scroll by one screenful minus one column. So, if you scroll right (say), the last fully visible column on the right before you scroll will be the column on the left after you scroll. Click the area between the arrow buttons and the thumb of the vertical scroll bar to move the number of rows in one screenful. Drag the thumb to move a variable amount.

You can resize or reorder columns by dragging with the mouse. To resize, drag the vertical line in the header that separates two columns. To reorder, drag the header for the column to where you want it.

You can sort the grid on a column by clicking the button to the right in the column header. Not all columns have the button. You can only sort on columns that do have the button. The column that the grid is currently sorted on will display a downward-pointing arrowhead in the button. Columns with buttons will also have an underlined letter in the column header. This indicates the accelerator key that you can press to sort on the column. These accelerator keys work like other accelerator keys in that you will have to also press (Alt) while pressing the accelerator key if the control that currently has the focus responds to letter keys. The sort order is decreasing for ratings and increasing for everything else.

In a grid, $\langle Up \rangle$ moves up one row, $\langle Down \rangle$ moves down one row, $\langle PgUp \rangle$ moves up the number of rows in one screenful, $\langle PgDn \rangle$ moves down the number of rows in one screenful, $\langle Ctrl+Home \rangle$ and $\langle Ctrl+PgUp \rangle$ scroll to the beginning, $\langle Ctrl+End \rangle$ and $\langle Ctrl+PgDn \rangle$ scroll to the end, $\langle Ctrl+Up \rangle$ moves to the first row displayed in the window, $\langle Ctrl+Down \rangle$ moves to the last row displayed in the window, $\langle Left \rangle$ scrolls the display left one grid column. $\langle Right \rangle$ scrolls the display right one grid column, $\langle Ctrl+Left \rangle$ scrolls the display left one screenful minus one column, $\langle Ctrl+Right \rangle$ scrolls the display right one screenful minus one column, $\langle Home \rangle$ scrolls all the way to the left, and $\langle End \rangle$ scrolls all the way to the right. Clicking with the mouse makes the row you clicked the current row.

In the grids on the *Browse* page of the player or event notebooks, you can double-click a player or event to switch to the *Edit* page for the player or event. In the result grid in the main window, you can double-click a result to modify the result, i.e., the effect is the same as selecting a result, then clicking the *Modify Result* button.

Pressing $\langle Ctrl+G \rangle$ sets the focus to the grid. In a *Find* field, pressing $\langle Up \rangle$ moves the focus to the grid.

9.1. Incremental Search. The player, rating list, and club grids have associated *Find* fields that let you search for a specific record. These are incremental-search fields, so you can type just the first part of what you are searching for and the grid

will move to the first matching record. The search happens after every keystroke. The value you type must be the sort of thing that is in the column that the grid is sorted on. For example, if you want to search for a player by name, you must sort the grid by name by clicking on the button in the header of the grid's "Name" column.

10. Drop-Down List

A *drop-down list* (also called a *combo box*) is a control that drops down a list of choices when you click the arrow at the right of the text, e.g., *::Players > Modify > Edit > State*. With the list open or closed, $\langle Up \rangle$ and $\langle Left \rangle$ select the previous item, $\langle Right \rangle$ and $\langle Down \rangle$ select the next item, $\langle PgUp \rangle$ moves up the number of items in one screenful, $\langle PgDn \rangle$ moves down the number of items in one screenful, $\langle Home \rangle$ goes all the way to the first item, $\langle End \rangle$ goes all the way to the last item, $\langle F4 \rangle$, $\langle Alt+Down \rangle$, and $\langle Alt+Up \rangle$ act as toggles, opening and closing the list, and $\langle Esc \rangle$ closes the list without changing the selection from what it was when the list was opened. With the list open, clicking with the mouse selects an item and $\langle Enter \rangle$ closes the list.

With the list either open or closed, you can also select an item by typing it into the control. For example, to select "VA" you can type "v" or "va". Similarly, you can select "2" by typing "2". In general, the list moves to the first item which starts with the string you typed. After 1.5 seconds, the control forgets what you've typed, so you can type a new string. You can also press (Backspace) to clear the last character you typed.

11. List Box

Cantor uses list boxes to select the winner and loser in the *New Result* and *Modify Result* windows. In a list box, $\langle Up \rangle$ selects the previous player, $\langle Down \rangle$ selects the next player, $\langle PgUp \rangle$ moves up the number of players in one screenful, $\langle PgDn \rangle$ moves down the number of players in one screenful, $\langle Home \rangle$ goes all the way to the first player, $\langle End \rangle$ goes all the way to the last player. $\langle Left \rangle$ tabs to the previous control, and $\langle Right \rangle$ tabs to the next control. Clicking with the mouse selects a player.

You can also select a player by typing their name into the list box. For example, to select "James", you can type "j" or "ja". In general, the list box moves to the first player whose name starts with the string you typed. After 1.5 seconds, the list box forgets what you've typed, so you can type a new string. You can also press (Backspace) to clear the last character you typed.

12. Dates and Date Fields

In grids, Cantor displays dates using the short-date format specified in your Windows regional settings. You can change these settings in *Control Panel > Regional and Language Options*.

Cantor has two date fields where you can enter a date: ::*Players > Modify > Edit > Birth* and ::*Events > Select Current > Edit > Date*. For the *Birth* field, use the year-month-day order that matches your short-date Windows regional settings. The (event) *Date* field displays the month name, but you can still enter the date

15. CHECK BOXES

into this field using numbers. However, unlike the *Birth* field, you must enter the numbers in this field using the month-day-year order (since the month comes first when the number is converted to a word).

You can use either a two-digit year or a four-digit year in either date field. For the *Birth* field, Cantor assumes that a two-digit year is in the past. For the (event) *Date* field, Cantor assumes that two-digit years are between eighty years ago and twenty years from now.

In either date field, $\langle + \rangle$ increments the day, $\langle - \rangle$ decrements the day, $\langle Up \rangle$ increments the month, $\langle Down \rangle$ decrements the month, $\langle Ctrl+Up \rangle$ increments the year, and $\langle Ctrl+Down \rangle$ decrements the year.

12.1. Calendar. You can click the button at the right of the (event) *Date* field or press $\langle Alt+Down \rangle$ or $\langle F4 \rangle$ to drop down a calendar. Today's date will have a maroon frame around it. You can select today's date by clicking the *Today* button. You can select any date by clicking a day. Click one of the buttons at the top of the calendar to move to the previous month or next month. If you click one of the buttons and hold the mouse down, the month will keep changing (and speed up the longer you hold the mouse down).

You can also select the month by clicking on the header text that displays the month name. This displays a pop-up menu that lists the months. Select the month you want by clicking on it or by using the $\langle Up \rangle$, $\langle Down \rangle$, and $\langle Return \rangle$ keys. You can also select the year by clicking on the header text that displays the year. This displays two buttons on either side of the year. Click the left button to move to the previous year and the right button to move to the next year. If you click one of the buttons and hold the mouse down, the year will keep changing.

As for the keyboard, $\langle Left \rangle$ moves to the previous day, $\langle Right \rangle$ moves to the next day, $\langle Up \rangle$ moves to the previous week, $\langle Down \rangle$ moves to the next week, $\langle Home \rangle$ moves to the first day of the month, $\langle End \rangle$ moves to the last day of the month, $\langle PgUp \rangle$ moves to the previous month, $\langle PgDn \rangle$ moves to the next month, $\langle Esc \rangle$ closes the calendar without changing the date, and $\langle Return \rangle$ accepts the selected date and closes the calendar.

13. Buttons and Radio Buttons

If a button has the focus, you can click it via either $\langle Enter \rangle$ or $\langle Space \rangle$. If a button has an icon, but no text, you can hover the mouse over the button to pop up a hint that explains what the button does.

In a radio group box, you can use the $\langle Up \rangle$, $\langle Left \rangle$, $\langle Down \rangle$, and $\langle Right \rangle$ keys to change which radio button is selected.

14. Button Edits

A button edit is an edit control that has a button as part of the control to the right of the edit box, e.g., *::Lists > Import > Rating list*. If the button edit has the focus, you can click the button by pressing (Alt+Down).

15. Check Boxes

You can toggle a check box by clicking it or, if it has the focus, pressing (Space). You can click the box or the text.

16. Navigator Bar

If a navigator bar (i.e., the bar containing four buttons in the bottom left of ::*Events > Select Current > Edit* or ::*Players > Modify > Edit*) has the focus, you can click the selected button with (Space) (but not (Enter)) and select a different button with (Left) or (Right). If you hover over a button with the mouse, Cantor will display a hint that explains what the button does and what shortcut key you can use to do the same thing.

The shortcut keys are $\langle PgUp \rangle$ moves to the previous record, $\langle PgDn \rangle$ moves to the next record, $\langle Ctrl+PgUp \rangle$ moves to the first record, and $\langle Ctrl+PgDn \rangle$ moves to the last record. These keys work regardless of which control on the *Edit* page has the focus.

17. Notebooks

Notebook tabs can have the focus, just like any other control. If a notebook tab has the focus, then $\langle Up \rangle$, $\langle Left \rangle$, and $\langle Home \rangle$ change to the first notebook page, while $\langle Down \rangle$, $\langle Right \rangle$, and $\langle End \rangle$ change to the second notebook page (since all of Cantor's notebooks only have two pages).

18. Edit Fields

An *edit field* is a control into which you type text, numbers, or dates. In an edit field, $\langle Del \rangle$ deletes the character at the caret (the *caret* is the vertical bar that shows where you are in the field), $\langle Backspace \rangle$ deletes the character to the left of the caret, $\langle Left \rangle$ moves left one character, $\langle Right \rangle$ moves right one character, $\langle Home \rangle$ moves to the beginning of the field, $\langle End \rangle$ moves to the end of the field, $\langle Ctrl+Left \rangle$ moves left one word, $\langle Ctrl+Right \rangle$ moves right one word, $\langle Alt+Backspace \rangle$ and $\langle Ctrl+Z \rangle$ undo the last change you made, $\langle Ctrl+C \rangle$ copies the selected text to the clipboard, $\langle Ctrl+X \rangle$ cuts the selected text, $\langle Ctrl+V \rangle$ pastes, $\langle Shift+Home \rangle$ extends the selection to the start of the field, $\langle Shift+End \rangle$ extends the selection to the end of the field, $\langle Shift+Left \rangle$ extends the selection left one character, $\langle Shift+Right \rangle$ extends the selection right one word, and $\langle Ctrl+Shift+Right \rangle$ extends the selection right by one word.

You can also drag with the mouse to select text. If any text is selected, then whatever you type will replace the selected text and $\langle Del \rangle$ and $\langle Backspace \rangle$ will delete the selected text. When you move to an edit field using the keyboard, the contents is selected, so whatever you type will replace the contents. To edit the contents, press a key that moves the caret (e.g., $\langle Left \rangle$ or $\langle End \rangle$) or click with the mouse to deselect the text.

19. Progress Bars

When Cantor needs to do something that may take some time, it puts up a progress bar, e.g., Figure 3 on the next page. (For some operations, it doesn't put up a progress bar, but does change the cursor to an hourglass.) When Cantor puts up a progress bar, you can click the *Abort* button to abort the operation. You can also abort by pressing $\langle Esc \rangle$ or $\langle Enter \rangle$. Pressing $\langle Alt+F4 \rangle$ won't abort.

19. PROGRESS BARS

Importing List				
	Abort			

FIGURE 3. Progress bar

APPENDIX D

Database Folder

This chapter explains how Cantor finds the database folder, how you can move the folder to a different location after Cantor is installed, and how you can have more than one event on a given date. There are two ways to tell Cantor where the database folder is: setting the current folder and using a command-line parameter.

Whenever Windows starts an application, it designates one folder as the *cur*rent folder. When you start Cantor, it looks for the database files in the current folder. For example, if you double-click on a file with an "exe" extension, then the current folder will be the folder containing the "exe" file. If you double-click on a Windows shortcut (e.g., an item on the desktop that has a little arrow on the bottom left or an item in the "Start" menu), then the current folder is determined by the shortcut. To see or change the current folder that the shortcut is using, right-click the shortcut and select *Properties*. The current folder is the folder listed in the *Start in* field.

You may also specify the database folder via a command-line parameter. You can do this by typing it in a command prompt or bat file or including it in the *Target* field in a shortcut's properties. A command-line parameter takes precedence over the current folder. You can use the special command-line parameter "appdata" to have Cantor put the database folder in a subfolder of your application data folder, e.g., C:\Users\YourUserName\AppData\Roaming\RatingsCentral\Cantor.

Cantor's installation program puts the "appdata" command-line parameter in the shortcuts on the desktop and in the "Start" menu. So, you can move the database files to any folder you wish as long as you update the shortcuts by removing "appdata" from the *Target* field and setting the *Start in* field to the new folder.

If you accidentally delete the shortcuts, you can create a shortcut by rightclicking the desktop and selecting *New* > *Shortcut*. This starts the Windows "Create Shortcut" wizard. For the "location of the item" (on the first page of the wizard), enter the path and filename of the Cantor.exe file, e.g., C:\Program Files (x86) \RatingsCentral\Cantor\Cantor.exe. Click the *Next* button to go to the second page of the wizard. For the name of the shortcut, enter the text that you want to appear as the caption under the desktop icon, e.g., "Cantor". Click the *Finish* button. Right-click the shortcut that you just created on the desktop and select *Properties*. Change the *Start in* folder to the folder where you want to put the database files.

If you need to submit two events on the same date, then you need a second director ID. If you think that you need to do this, please discuss it with us first; see http://www.ratingscentral.com/Problems.php for our email address. Also, if you want to submit events for more than one sport, you need a director ID for each sport.

D. DATABASE FOLDER

In addition to a second director ID, you need a second set of database files. Choose a folder for the second set of files, and set up a shortcut for Cantor with the *Start in* field set to the second folder. Set the shortcut's caption to something that will tell you which set of database files it is using. If you do set up a second set of database files, be sure that you don't enter the same director ID into both sets of files, since this will give you two inconsistent versions of any events that occur on the same date in both sets.

If you set up a second set of database files, you may wish to set the list database folder (see Section 2.2 on page 28) to something other than the database folder. This would let you set both copies of Cantor to use the same list database folder. So, you would only have to import the lists once rather than twice. However, if you do this, you won't be able to run both copies of Cantor at the same time because only one copy of Cantor can be accessing a folder at a time.

APPENDIX E

Crashes and Bugs

If Cantor crashes, you will see a window like Figure 1. If you don't understand the message, then it may be a bug. You can copy the message and the details to the clipboard by pressing Ctrl+C. The message and details will also be in the file CantorCrash.txt in the database folder. There may also be a file CantorDatabaseError.txt that contains additional error messages.

If you wish to report a bug or have any questions or suggestions, please contact us; see http://www.ratingscentral.com/Problems.php for our email address. If you are reporting a bug, please include specific steps so that we can reproduce it, send us the CantorCrash.txt and CantorDatabaseError.txt files, and also send us the database files (if these will help us reproduce the bug).

The database library that Cantor uses writes all information to a journal file before updating the database files. After updating the database files, the journal file is deleted. This should ensure that the files are not corrupted even if the computer is unplugged in the middle of writing to the files. If this happens, you may see a file with an n\$1 extension in the database folder. This is the journal file. When you start Cantor, it should process the journal file and delete it.

Most hard disk controllers provide a write-caching feature. If this feature is on, applications may not be able to force data to be physically written to the disk. In Windows XP, do *Control Panel > System > Hardware > Device Manger*. Then expand the *Disk drives* node. Right click on the disk-drive controller and choose *Properties > Policies*. You will see a check box labeled, *Enable write caching on the disk*. Underneath it says, "This setting enables write caching to improve disk performance, but a power outage or equipment failure might result in data loss or corruption." You may wish to uncheck this check box.



FIGURE 1. Crash window

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