



Networking *CardioCard*



Networking the CardioCard

Benefits of networking the CardioCard

- *Patient data will be in a central location for backup*
- *Patient data is stored in CardioCard for easy retrieval*
- *ECG/EKG can be performed on different computers and stored in one location for comparison and cuts down on duplicate data entry*
- *Holter ECG, Stress ECG and Resting ECG can be reviewed from any computer in the office*
- *Allows offsite viewing if you have access to the server*
- *Send patient data to your EMR from any location*



How to Network the CardioCard

- The first step in networking is to create a folder on the network server called "cardiodata" (*one word*)
- This folder is ok to put on the "C drive" of server
- The CardioCard software uses standard windows networking protocols. All users must have windows network access like; read and write and full control to use the software in a network environment
- No restrictions on this shared folder!



How to Make a Folder on the Server

- On the network server go to “computer” or “my computer”, click on the hard disk drive C
(another alternative is to make a folder in shared documents or public)
- To create a folder “right click”– scroll down to “new”
—then follow the arrow over to folder

(Illustration on next page)

Illustration of Create Folder



The screenshot shows a Windows Explorer window titled 'Computer > TII00343V0F (C:)'. The main pane displays a list of 23 items, including folders like '5.84', '5.88_CardioCard', and 'EMR_Records', and files like 'BOOTSECT.BAK' and 'msdia80.dll'. A context menu is open over the list, with the 'New' option selected. The 'New' submenu is also open, and the 'Folder' option is highlighted. An arrow points from the text 'Click on Folder' to the 'Folder' option in the submenu.

Name	Date modified	Type	Size
5.84	4/5/2010 3:22 PM	File Folder	
5.88_CardioCard	6/23/2010 1:42 PM	File Folder	
act2010-1user	3/15/2010 5:13 PM	File Folder	
ACTI2010	11/30/2009 9:57 AM	File Folder	
car12wd	8/24/2010 11:16 AM	File Folder	
carcom	4/1/2010 1:42 PM	File Folder	
carcom5.82	10/19/2009 12:10 ...	File Folder	
CardioCard5.76s	10/19/2009 12:40 ...	File Folder	
Cardiodata	8/27/2010 2:05 PM	File Folder	
cardwin	8/27/2010 12:07 PM	File Folder	
cardwin5.82	4/1/2010 1:27 PM	File Folder	
EMR_Records	7/27/2010 10:25 AM	File Folder	
Flash Card Bu	2/18/2010 10:58 AM	File Folder	
MR	1/26/2010 1:14 PM	File Folder	
New Folder	8/27/2010 1:52 PM	File Folder	
PDF_Reports	8/26/2010 11:02 AM	File Folder	
Program Files	1/26/2010 12:44 PM	File Folder	
Program Files (x86)	6/10/2010 12:40 PM	File Folder	
Resting	11/30/2009 3:39 PM	File Folder	
Users	10/19/2009 9:58 AM	File Folder	
Windows	8/24/2010 2:55 PM	File Folder	
BOOTSECT.BAK	5/3/2009 5:43 PM	BAK File	
msdia80.dll	12/2/2006 2:37 AM	Application Extension	



Name Folder

- To rename a folder you can right click on the folder and select rename. If this option is not there left click once on the new folder then right click and select "rename"
- This folder should be named "Cardiodata" (*one word without space*)
- The next step is very important!



Share this Folder

- This folder should have no restrictions!
- To share this folder right click on the “Cardiodata” folder and go to properties—Share and Securities
- Make sure this folder is allowed to read, write, full control, etc. Click “apply” and “OK”
- The work on the network server is done



Map Network Drive on Client

- On a client computer (*any computer other than the network server*) select "my computer" or "computer" select Map Network Drive at the top (*this could be located in the tools options in Windows XP*)
- Select a drive letter (*i.e. X, Y, Z*) and then browse for the "Cardiodata" folder on the network server
- Highlight the "Cardiodata" folder and click "OK"
(*Illustration on next page*)



Illustration of Map Network Drive

Map Network Drive for Vista

What network folder would you like to map?
Specify the drive letter for the connection and the folder that you want to map to it.
Drive: X:
Folder:
Example: \\server\share
 Reconnect at logon
Connect using a [different user name](#).
[Connect to a Web site that you can use to store your documents](#)

Select a shared network folder

- actmarket
- actsafe
- actsales
- capa
- Cardiodata**
- car12wd
- cardiodata1
- cardiodata2

Make New Folder OK Cancel

In Windows XP click on tools and select Map Network Drive

Browse for "Cardiodata" folder on server then click "OK"

CARDIOCARD-PC Workgroup: WORKGROUP
Processor: Intel(R) Core(TM)2 Duo CPU T6500 @ 2.10GHz
Memory: 4.00 GB

Inbox - Micros... NEW LEAD fro... ACT! by Sage -... Microsoft Pow... Document5 - ... Computer Map Network ... 2:43 PM

Select Map Network Drive → Select drive letter → Click on "browse"

Select Cardiodata folder → Click "OK"



Setup Drive in CardioCard Software

A screenshot of the CardioCard software interface. The window title is "Cardio-Suite (tm) / Cardio-Card (tm) v5.88a Win7/Vista/XP/2k (c) 2010 Nasiff Associates (NAI)". The menu bar includes "File", "Algorithm", "Options", "Leads", "Help", "Stress_Opt", and "Holter_Opt". The toolbar contains icons for "ECG", "Holter In", "Open Database", "Save", "Print", and "System Setup". An arrow points from the text "Click on 'System Setup'" to the "System Setup" icon. The main area shows a grid with leads I, II, III, aVR, aVL, aVF on the left and V1, V2, V3, V4, V5, V6 on the right. A blue step-like waveform is visible on the right side of the grid. On the far right, there is a vertical menu with options: "Resting", "Stress", "Holter In", "Database", "System", "Help", and "Exit". Below this menu are desktop shortcuts for "batch - Shortcut", "Physician's EMR", and "PDF_Reports". The bottom right corner shows the time "15:41:25" and date "08/30/10 Mon".

Open CardioCard software and click on "System Setup"

Setting up Network Drive in CardioCard



The screenshot shows the 'Setup' dialog box in the CardioCard software. The 'Database' button is highlighted with a black arrow and the text 'Select Database'. The dialog box is divided into several sections:

- Win98/Me/2000/XP-:** Includes options for IRQ (2/9, 3, 4, 5, 7, 10, 11, 12, 15), Default Gain (2.5, 5, 10, 10.5, 20 mm/mV), and Default Filters (40 Hz LFP, 50 Hz Rej, 60 Hz Rej, 40 Hz 3P, Baseline Cor).
- Display:** Includes Heart Rate Display, Real Time STs, V/m Display, and Enh Pacemaker Mark.
- Print:** Includes Grid, Red, Line, FULL, medium, Print on Save, and Print Default Leads.
- Refrac T(msec):** 250, Ramp min(1-90%): 10.
- Real Time Analysis Lead:** II.
- RT/Stress Rpt:** STJ, 40, 60, 80.
- Product Type:** ISA, PCMCIA, Serial, Com, USB.
- PCMCIA Slot:** A, B.
- Office/Fac:** Nasiff Associates.
- Physician:** Larry Brown.
- Street:** 841 County Rte 37.
- City, State:** Central Square, NY.
- NIBP Inflate P:** 190 mmHg.
- AutoPrint PDF on Save:** AutoPDF folder: C:\PDF_Reports.

Click on "Database"

Select Database Drive



Current Database is: c:\car12wd\

Which database would you like to change to?

[-c-]
[-e-]
[-f-]
[-k-]
[-y-]
[-z-]

Select the same drive letter selected in Map Network Drive

Click on the down arrow and select the Map Drive Letter i.e. X, Y, Z
If you chose "Z" in the Map Network Drive then select "Z" click "OK"



Send Patient Database to Network

Options

Batch/Telecom

At the top of CardioCard click on "options" and scroll down to "Batch/Telecom"

Resting
Stress
Holter In
Database
System
Help
Exit

15:53:32
08/30/10 Mon

Click on "options" and select "Batch/Telecom" in the CardioCard software



Create Database in Batch/Telecom

Click on option "F Create Database Drive"

16:01:31
08/30/10 Mon

Select option "F—Create Database Drive" from the CardioCard Software

Send Patient Database to Drive Letter



The screenshot shows the Cardio-Suite software interface. A dialog box titled "Question" is open, asking "Which drive to create Database files on?". The dialog has a dropdown menu with options [-c-], [-d-], [-e-], [-f-], [-k-], [-y-], and [-z-]. The [-z-] option is selected. There are "OK" and "Cancel" buttons. An arrow points from the text "Select drive letter to send the patient database from CardioCard to the network server" to the [-z-] option in the dropdown menu. The background shows a grid with ECG waveforms and labels for leads aVR, aVL, aVF, V1, V4, V5, and V6. The right sidebar contains buttons for Resting, Stress, Holter In, Database, System, Help, and Exit. The bottom right corner shows the time 16:06:47 and date 08/30/10 Mon.

Select the same drive letter as in Map Network Drive and click "OK"

Check Database



The screenshot shows the Cardio-Suite software interface. The main window displays an ECG grid with leads aVR, aVL, aVF, V4, V5, and V6. The HR is 0. The 'OpenECG' dialog box is open, showing a list of patients and their IDs. The 'Current Database is: z:\car12wd\' is displayed. The 'Open Database' button is highlighted with a red box and an arrow pointing to it. The 'View Log/Tracking' button is also highlighted with a red box and an arrow pointing to it.

Name	Patient ID # (ssn)
ECG, Johnny	123456789
F, Patient	000006789
H, Patient	000009090
Holter, Female	888888888
Holter, Frank	000012340

Current Database is: z:\car12wd\
View Log/Tracking

Click on "Open Database"

Check Current Database

The Current Database should now match your "Map Network Drive" (i.e. z:\car12wd\)

Rebuild Index (patient list)



The screenshot shows the Cardio-Suite software interface. The title bar reads "Cardio-Suite (tm) / Cardio-Card (tm) v5.93a Win7/Vista/XP/2k (c) 2010 Nasiff Associates (NAI)". The menu bar includes "File", "Algorithm", "Options", "Leads", "Help", "Stress_Opt", and "Holter_Opt". The "Options" menu is open, listing various settings such as "Demographics", "Comments", "Display Measurements", "Batch/Telecom", "#12sec Strips During Store", "Clean/Continuous Page", "Sweep Speed (duration) (F10)", "Grid", "Store Last 12 secs", "NIBP (F2)", "NIBP Autocycles", "SpO2 (F6)", "Temperature (F5)", "Weight (F8)", "Glucose QID (Cntl-F5)", "Gain", "ST Reported", "Limits and cycle Intervals", "Manual Treadmill Testing", "Autoanalysis (F7)", "Store Edit/Analysis (F6)", "Change Patient Name", "Change Start Time", "Measure Cursor On/Off", "Mark Measure Cursor Start Point", and "Run PD2i". The "Batch/Telecom" option is highlighted. The main display area shows a grid with leads I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, and V6. A blue step-like waveform is visible on the right side of the grid. The status bar at the bottom right shows the time "09:51:53" and date "09/10/10 Fri". On the right side of the desktop, there are several icons: "Run_ECG", "batch - Shortcut", "Physician's EMR", and "PDF_Reports".

Click on "Options" scroll down and select "Batch/Telecom"

Rebuild Index (patient list)



The screenshot shows the Cardio-Suite software interface. The 'Batch' menu is open, displaying various options. The 'R' option, 'Rebuild index (patient list)', is highlighted. A 'Question' dialog box is open, asking 'Which database would you like to reindex?'. The dialog box has a dropdown menu with options: [-d-], [-f-], [-i-], [-k-], [-p-], and [-s-]. The [-s-] option is selected. Below the dropdown, there is a checkbox for 'Use this alias (ren' and a text input field. Below that, there is a note: '(Puts this alias string after the drive letter, and before the subdirectory car12wd. Use aliases only for database file access and printing. Use standard Network Drive Mapping for all other uses.)'. The 'OK' and 'Cancel' buttons are at the bottom of the dialog box. The background shows a grid with labels V1 through V6 and a blue step-like waveform. The top menu bar includes File, Algorithm, Options, Leads, Help, Stress_Opt, and Holter_Opt. The bottom status bar shows the date and time: 10:06:22 09/10/10 Fri.

Click "R—Rebuild index (patient list)" select the drive letter to rebuild & click "OK"



Important

- If the network or server is down; the CardioCard will not function *(the CardioCard needs access to car12wd)*
- To go back to running on the computers "C" drive click on "System Setup" → on the right side click on "Database" → under "Which database would you like to change to?" Select "C"
- This allows for you to run the CardioCard while the network server is not available

(Illustration on next page)

Alternate from Server to Client PC



The screenshot shows the Cardio-Suite software interface. The title bar reads "Cardio-Suite (tm) / Cardio-Card (tm) v5.93a Win7/Vista/XP/2k (c) 2010 Nasiff Associates (NAI)". The menu bar includes "File", "Algorithm", "Options", "Leads", "Help", "Stress_Opt", and "Holter_Opt". Below the menu bar is a toolbar with icons for "ECG", "Stress", "Holter In", "Open Database", "Save", "Print", and "System Setup". The main window displays a grid for ECG leads: I, II, III, aVR, aVL, aVF on the left; V1, V2, V3, V4, V5, V6 on the right. A blue ECG waveform is visible on the right side of the grid. A black arrow points from the text "Click on System Setup" to the "System Setup" icon in the toolbar. On the right side of the window, there is a vertical menu with options: "Resting", "Stress", "Holter In", "Database", "System", "Help", and "Exit". The bottom right corner of the window shows the time "09:04:05" and date "09/10/10 Fri".

In the CardioCard software click on "System Setup"

Alternate from Server to Client PC



The screenshot shows the 'Setup' dialog box in the Cardio-Suite software. The 'Database' button is highlighted with an arrow and the text 'Click on Database'. The window contains various configuration options for display, print, and system settings.

Setup

Win98/Me/2000/XP-

Display:

- Heart Rate Display
- Real Time STs
- V/m Display
- Enh Pacemaker Mark:
- Resting Default Leads: All 12
- Default Filters: 40 Hz LPF, 50 Hz Rej, 60 Hz Rej, 40 Hz 3P, Baseline Cor
- Special: Track Saves, Batch Acq, Strict NIBP, Log R-R, Log RRIV1, Respir on aVF, C/IBP on aVL, NIBP on aVR, Store 100Hz, Vet Print, Intercardiac
- Letterhead: Nonin SpO2, Nonin Out Com, Nonin In Com, Continuous SpO2, Masimo SpO2

Print:

- Grid
- Red
- Lines
- FULL
- medium
- Full Interps
- Print on Save
- Print Default Leads: 12-lead Rotate
- 12ld 50mm/s
- 1Pg
- LimbTCI
- Rest Mec
- NoMedBPQtc
- Right Margin (in): 0
- RT ST
- No Patinfo
- No PatID
- Prevue
- Print Comments as it
- Autofill demog on save
- Audible HR
- Enter Demogr Before
- Pnt Spool Switch
- Use Abbrev Demogr
- Pnt HRQT Only
- Print with without AutoDiag
- No Ref Pnt
- Disable AutoInterps
- Diag on Right
- Require Ref Doc on store
- No Confirm Interp on Print
- Processed R Gate
- User Logged in for Audit Name
- PatID is Site,Subj,Study,VisitID
- No SetUp Password Required
- System Password Required
- Disable Acquisition (ECG,etc)
- Add amplitude compensation
- Athlete Interp Filter (no lvh,lad,rad)

System:

- NIBP Inflate P: 190 mmHg
- Auto Cycle NIBP Intervals (3-60 mins)
- NIBP blue on screen
- Quick NIBP
- Display Proc NIBP
- Don't Ask DICOM Save
- AutoProcHL7Order (carefull)
- Don't Ask HL7 Save
- Base64

Buttons: OK, Cancel, Limits / Alerts, Stress Setup, Holter Setup, Database, Passwords, Comm Setup, MultiTest, Client Setup, Central Station, Default Set

In Setup click on "Database" to select "C" drive



Alternate from Server to Client PC

Current Database is: c:\car12wd\

Which database would you like to change to?

- [-c-]
- [-d-]
- [-f-]
- [-g-]
- [-h-]
- [-i-]
- [-j-]
- [-k-]

Use this alias (ren [alias] [drive letter] [subdirectory]) (Puts this alias string after the drive letter, and before the subdirectory. Use aliases only for database file access and printing. Use standard Network Drive Mapping for all other uses.)

OK Cancel

Select drive letter "C"

Click on the down arrow and select drive letter "C" to run on client PC