

sonicaid®Centrale

Sonicaid Centrale Archiving and Viewing System



Software Installation Procedure

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Introduction

This document specifies the installation of the Sonicaid Centrale II application software, with Microsoft Windows XP SP2 (English) 32bit or Professional or Microsoft Server 2003 Standard Edition 32bit (English or French) for systems using more than 6 bed connections.

Please note that it is not recommended to run the Sonicaid Centrale Client Application on a Microsoft Server 2003 Standard Edition operating system, and therefore a separate desktop computer needs to be added to the same Workgroup / Domain to run the Sonicaid Centrale client application. Please refer to section 4 of this procedure. It is assumed that all hardware meets the minimum required specification as defined in document 725320.

It is also assumed that the person building this system is suitably qualified /experienced in this area. Please note that Sonicaid Centrale II is not currently compatible with Microsoft Windows Vista or Windows 7.

The following should be made available prior to installation:

- **Original Windows XP SP2 Professional 32bit operating CD's**
- **Original Windows Server 2003 R2 32bit operating CD's**

Computer Setup

The following steps will guide you through configuring the computer prior to installing Sonicaid Centrale software. **Local Administrator rights are required to complete the following configuration and Sonicaid Centrale software installation.**

Server Details

For your information, Record Server name, Domain Name and IP Address etc, information.

Windows/Microsoft Updates

Ensure all Microsoft/Windows Updates have been uploaded and installed.

Microsoft Dot Net 2.0 is a pre-requisite to installing Sonicaid Centrale Software. Ensure that Microsoft Dot Net 2.0 is installed.

Installing VC Redistributables

VC redistributables are a pre-requisite to installing Sonicaid Centrale Software. This software can be found on the supplied installation CD in the following location:

Softwares\VC Redistributables\VC 2005 Redistributable\VCREDIST_X86.

Double click the application, accept the license agreement and then the program will install.

Installing Internet Information Services (IIS)

IIS is a pre-requisite to installing Sonicaid Centrale Software.

2.4.1 Select "Start" - "Settings" - "Control Panel" - "Add/Remove Programs" - "Add/Remove Windows Components".

Note: For Microsoft Server 2003 Standard Edition, continue to step 2.4.2. For Microsoft Windows XP Professional, jump to step 2.4.3,

2.4.2 From the presenting screen, select "Application Server", from Components and select "Details".

2.4.3 From the presenting screen, ensure "Internet Information Services" is ticked and select "OK".

Note: If this is already ticked, exit and skip to 2.5.

2.4.4 Select next and insert the appropriate CD if prompted.

2.4.5 Select OK when finished.

Windows Setup

Ensure the following are set for local administrator account.

Automatic Updates

This should be set in accordance with local policies. The customer should be made aware of the associated problems of automatic updates when there is a chance that a reboot may take place unexpectedly.

Internet options

Select "Start" - "Settings" - "Control Panel" – "Internet Options" and select the "Advanced" tab. Under "Multimedia" ensure "Play animations in web pages" and "sounds in web pages" are both selected.

NPort Moxa 5610

The preferred connection method between Sonicaid Centrale and a Fetal Monitor is via a Serial Port Server supplied by Moxa. Details of the products available can be obtained from the following link: <http://www.moxa.com/Product/>.

Installing NPort Moxa Software

The NPort Administrator suite software is used to manage the extra serial ports that are required in conjunction with the supplied NPort device. It is assumed that NPort device is already connected to the PC via the local network. Insert the supplied CD (or the latest available software) and install as per manufacturer's instructions. After successful installation, use the following procedure to configure the NPort device.

2.6.1.1 Select "Start" – "Programs" – "NPort Administration Suite" – "Nport Administrator" (see figure 2.5.1.1.)

2.6.1.2 From the left pane select "Configuration" and then select "Search" from the tool bar. N.B if no device is found, select "Search IP" from the tool bar and enter the appropriate IP address.

2.6.1.3 Double click the desired NPort device and from the presenting window select the following:

2.6.1.3.1 **Network** – edit IP configuration as required.

2.6.1.3.2 **Serial** – select "Modify" and choose to edit settings for all ports for the following:

Baud Rate:	9600	Flow Control:	None
Parity:	None	FIFO:	Disable
Data Bits:	8	Interface:	RS-232
Stop Bits:	1		

2.6.1.3.3 **Operating Mode** - ensure that "REAL COM MODE" is selected for all available ports.

2.6.1.4 From the NPort Administrator configuration application, from the left pane select "Monitor" and then "Add" from the tool bar.

2.6.1.5 Double click the desired NPort device and from the presenting window select Monitor Items and ensure that there are no "De-Selected" items. Select "OK" and then "GO" from the task bar.

2.6.1.6 From the NPort Administrator configuration application, from the left pane select "Port Monitor" and then "Add" from the tool bar.

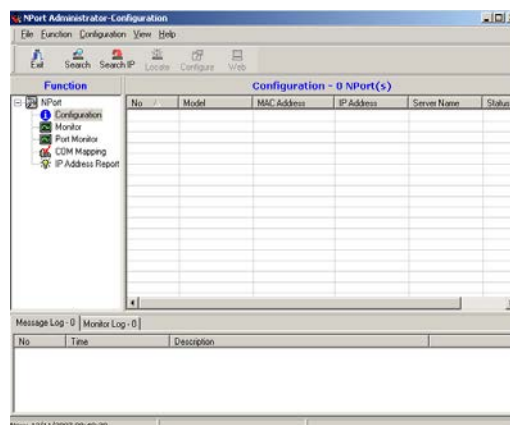


Figure 2.6.1.1

2.6.1.7 Double click the desired NPort device and from the presenting window select Monitor Items and ensure the following items are “Selected Items” (see also figure 2.5.1.3).

- Model
- Com Number
- TX/RX after Conn.
- IP Address
- Port
- OP Mode
- Alive
- Mac Address

2.6.1.8 Select “OK” and then “GO” from the task bar.

2.6.1.9 From the NPort Administrator configuration application, from the left pane select “Com Mapping” and then “Add” from the tool bar.

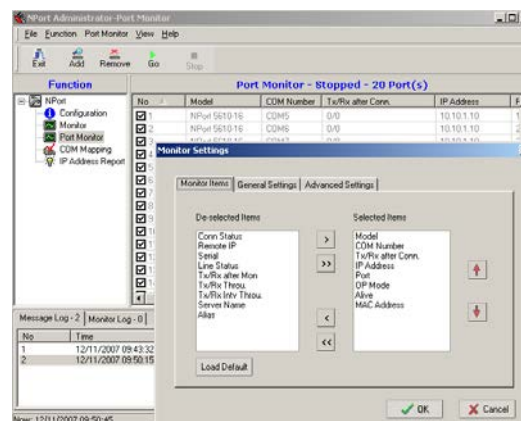


Figure 2.6.1.3

2.6.1.10 Double click the desired Port number and from the presenting window select “Basic Settings”. Select the desired Port number for this Port (see figure 2.6.1.4).

2.6.1.11 Select “Advanced Settings” and ensure the settings are as in Figure 2.6.1.5.

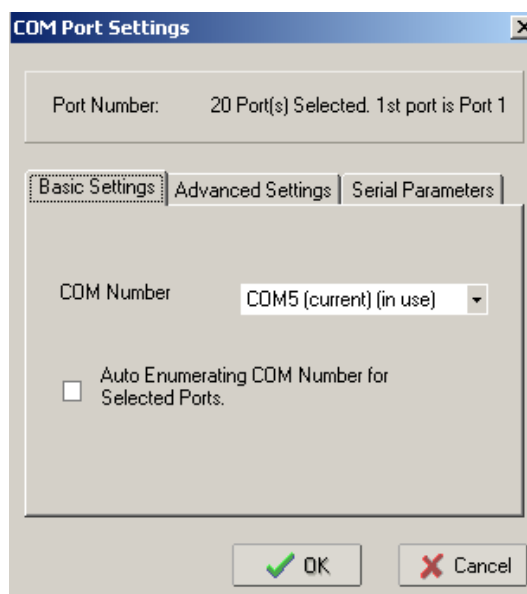


Figure 2.6.1.4

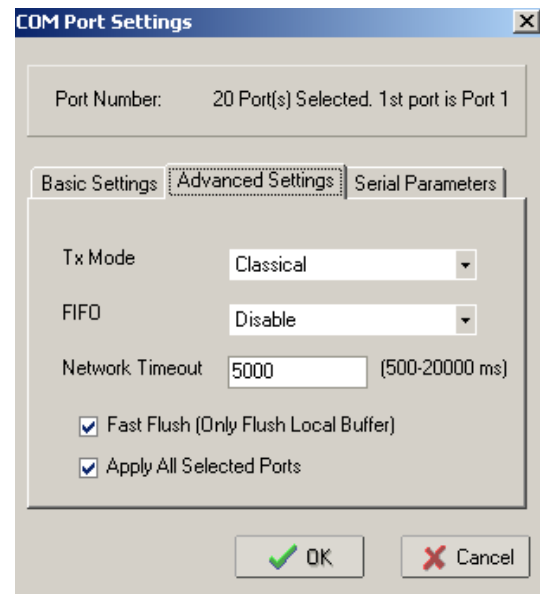


Figure 2.6.1.5

2.6.1.12 Select “OK” and then “Apply” from the tool bar. Return to the Desktop.

Sonicaid Centrale Installation

The supplied Dongle should be inserted prior to Sonicaid Centrale installation. If you are prompted to install a driver for this device, please select “cancel” from this window as Sonicaid Centrale will install its own driver.

Please note that Microsoft.net 2.0 is a pre-requisite of Sonicaid Centrale.

If using VMWare refer to Appendix C, as a UCB device will need to be installed.

There are limitations with using RDP, we recommended using VNC as RDP does not recognise the Security dongle or display the Huntleigh Services icon in the tool bar.

3.1 Insert the supplied Sonicaid Centrale CD into the computer and copy the folder V6.7.1.2 to the root of C: (**Make sure the folder is not set to read only**)

3.2 Select “Start”, “Run” and type “cmd” and select “OK”.

3.3 At the cmd prompt, type CD\.

3.4 Type “C:” then “cd V6.7.1.2” the location containing the Sonicaid Centrale software.

3.6 Type “dciisetup <computername>” and the Sonicaid Centrale wizard will appear

I.e. dciisetup dc123

3.7 Select “English” and then “Next”

3.8 At the “Welcome to the Installation Wizard” select “Next”.

3.9 At the “Licence Agreement”, select “Yes” and then “Next”

3.10 Ensure the installation folder is saved to the following: C:\Program Files\Huntleigh Healthcare\Dopplex Centrale II and select “Next”

3.11 At setup type, select “Dopplex Centrale II Server/Client” and select “Next”

3.12 At the “Ready to install the program” select “Next” and Sonicaid Centrale will install. The installation process is about 5 minutes. At the end of the installation, restart the computer as prompted by the wizard to register the services.

Once the Huntleigh Services have been installed upon reboot, when prompted again to restart, select “Do Not” and continue to section 3.13.

3.13 DCOMCNFG

Select “Start”, “Run” and type “dcomcnfg” and select “OK”. The following procedure should now be followed:

3.13.1 From the presenting screen, navigate through the following “Console root” – “Component Services” – “Computers” – “My Computer” – “DCOM Config” – “DCCO”. Right click “DCCO” and select “Properties”. At the “General” tab, ensure “Authentication Level” is set to “None” (see figure 3.13.1)

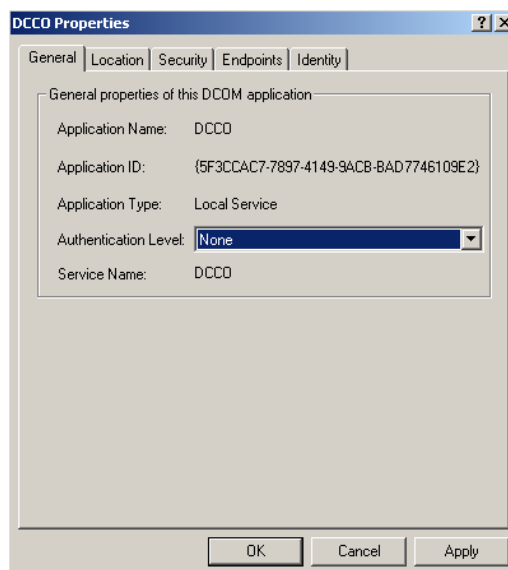


Figure 3.13.1

3.13.2 At Security and “Launch & Activation Permissions” select “Customize” & “Edit”. At the presenting screen select “Add” and add “Everyone” and select “OK”. Ensure all permissions are set to “Allow” and select “OK” (see fig 3.13.2).

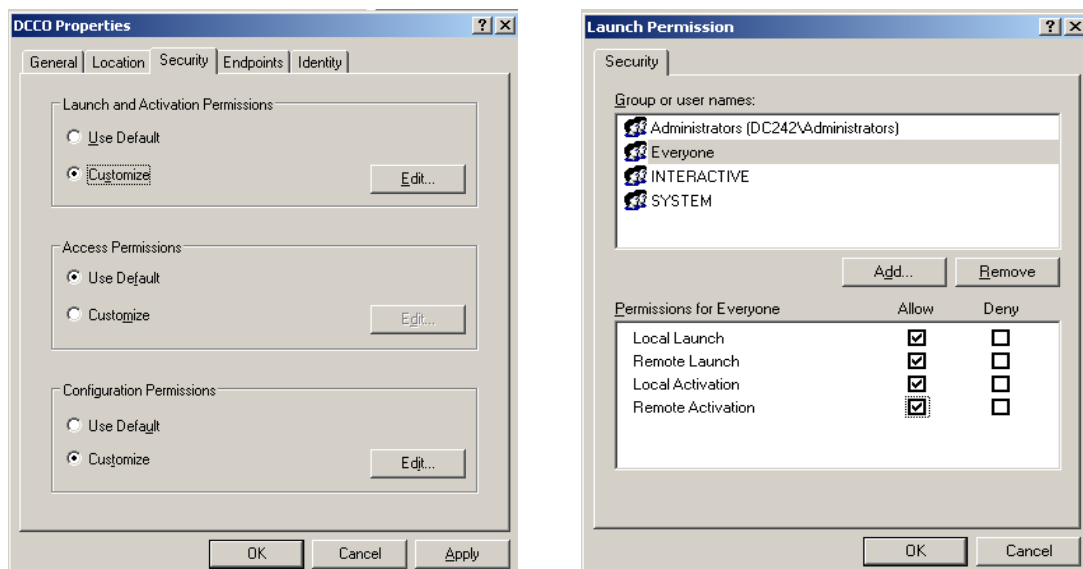


Figure 3.13.2

3.13.3 At Security and “Access Permissions” select “Customize” & “Edit”. At the presenting screen select “Customize” & “Edit”. At the presenting screen select “Add” and add “Everyone” and select “OK”. Ensure all permissions are set to “Allow” and select “OK” and select “OK” again (see fig 3.13.3).

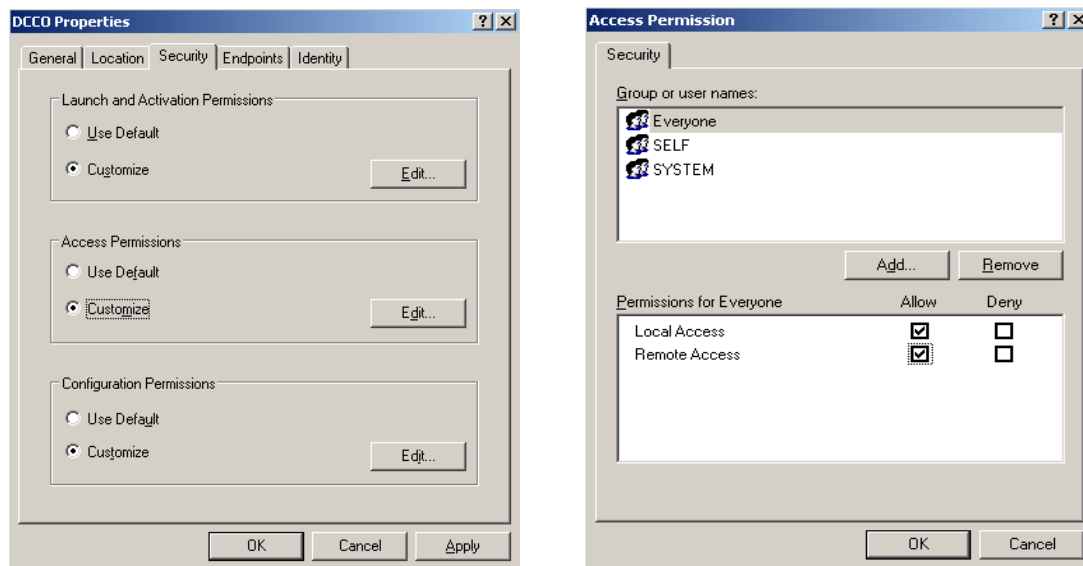


Figure 3.13.3

3.13.4 Navigate through the following “root” – “Component Services” – “Computers” – “My Computer”. Right click “My Computer” and select “Properties”. At the “Default Properties” tab, ensure the configuration as in Fig 3.13.4. At “COM Security”; select “Edit limits” for both “Access & Launch and Activation Permissions” and ensure all Permissions are set to “Allow” for “Everyone”. Select “OK” and return to desktop.

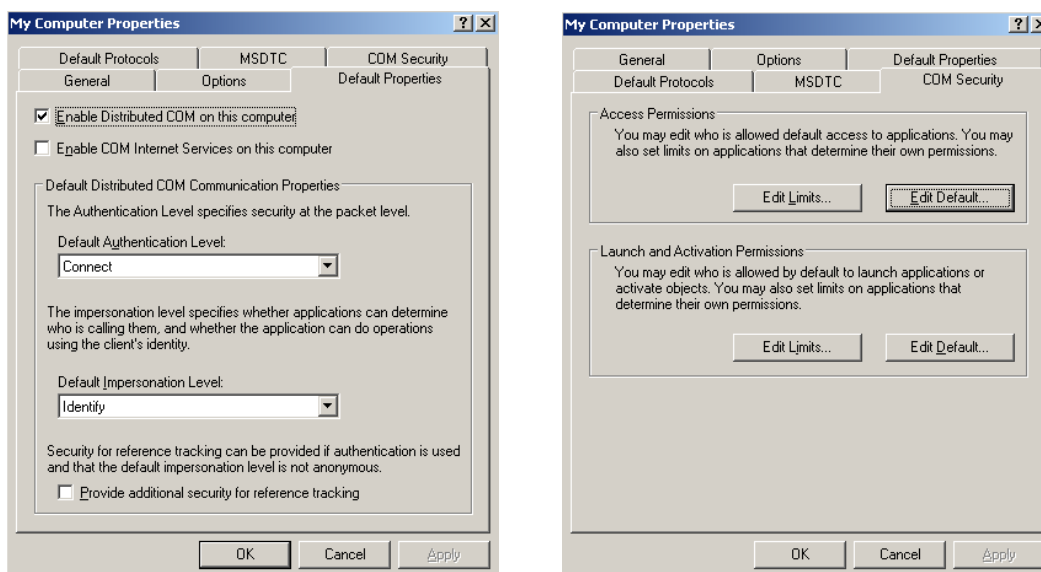


Figure 3.13.4

3.13.5 From Windows Explorer, browse to the following location:

C:\Program Files\Huntleigh Healthcare\Dopplex Centrale II

Right click Webserver folder and select properties; De-select “Read only” and select ok. When prompted, select to “apply changes to this folder, subfolders and files”.

3.13.6 Windows 2003 Server Only.

By default, Windows 2003 Server disables all web applications. To enable the DCWeb application you need to follow the instructions below to enable ISAPI applications.

Select “**Start**”, “**Settings**”, “Control Panel”, “**Administrative Tools**” and “**Internet Information Services**”.

In IIS Manager, expand the local computer, and then click Web Service Extensions.

Select to “**Enable**” ISAPI applications.

From the task list select “add a new web service extension”, Enter “**DCWeb.dll**” as the extension name.

Click add, then browse to the following location “**C:\Program Files\Huntleigh Healthcare\Dopplex Centrale II\Webserver**”, Select DCWeb.dll, click open the ok.

Tick the “Set extensions status to allowed” then select ok

3.13.7 Reboot the computer for the changes to take effect.

Upon reboot and login, configure Sonicaid Centrale, (refer to section 4 of this document for information on doing this). Start the Centrale Services by double clicking the Huntleigh System Control icon (located at the bottom right of the desktop) and selecting “Start”.

Note: If an error message appears as in figure 3.13.7 ensure that the dongle is lit. If it is not, please remove and re-insert dongle.

Close the Huntleigh System Control window and start the Sonicaid Centrale application from the Desktop.

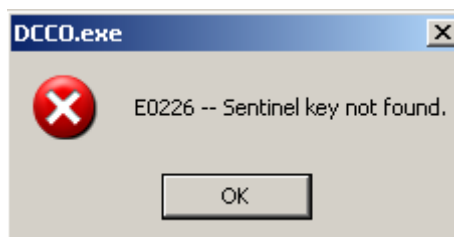


Figure 3.13.7

Sonicaid Centrale – Client application installation

This procedure only needs to be followed if installing Sonicaid Centrale on a system with Server/Client architecture.

- 1.1 Microsoft Dot Net 2.0 is a pre-requisite to installing Sonicaid Centrale client software. Ensure the Client computer has Microsoft Dot Net 2.0 installed!
- 1.2 Locate MSI package on the Server. This should be found at the following location:
 \\<V6.7.1.2 Installation CD>\Softwares\MSI
 Run the .msi application and follow the Wizard. Ensure that Server name has been edited to the Sonicaid Centrale “host” Server name. Select “Next” until “Finish” is visible and select “Finish”.
- 1.3 Select “Start”, “Run” and type “dcomcnfg” and select “OK”. The following procedure should now be followed:
- 1.4 From the presenting screen, navigate through the following “Console root” – “Component Services” – “Computers” – “My Computer”. Right click “My Computer” and select “Properties”. At the “Default Properties” tab, ensure the configuration as in Fig 4.1 At “COM Security”, select “Edit limits” for both “Access & Launch and Activation Permissions” and ensure all Permissions are set to “Allow” for Everyone. Select “OK” and return to desktop.

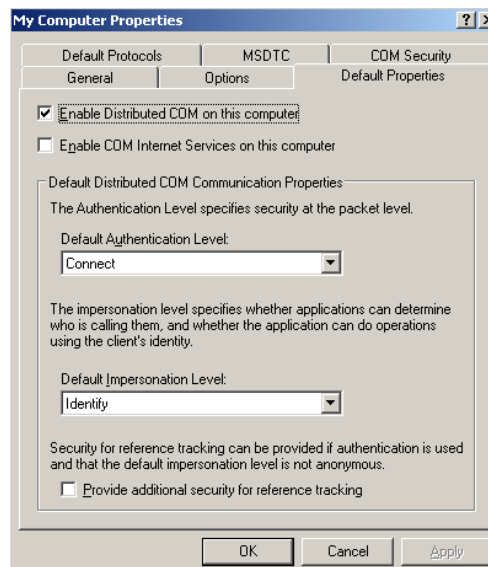


Figure 4.1

- 1.5 Run the following script from the command line on the client computer:
 cd "c:\windows\Microsoft.net\Framework\v2.0.50727"
 Type the following:
Caspol -machine -addgroup 1 -site <Server Name> FullTrust -name Analysis -description "Code granting trust to analysis code"
 Press Return and when prompted, select type Y (substitute Y for the local country dialect e.g O for “Oui”).
Please Note / if this Script line is not entered on each client the analysis software feature will not work correctly,
- 1.6 Ensure that any Audio settings are set to use the “Speaker” and not “Microphone” otherwise Alarm Audio will not be heard on the client computer.
- 1.7 Internet options (from Control panel) - Select “Advanced”, and under “Multimedia” ensure “Play animations in web pages” and “Play sounds in web pages” are both selected. **Ensure temporary files, history and cookies are also deleted.**
- 1.8 If required, disable all Screen Saver, Power Down (hibernation) and Auto Log Off options.
 Reboot the client computer.

Sonicaid Centrale – System Options

Partogram – SW Optional

This option provides a full Partogram capability for charting and plotting a wide range of information relating to labour management and typically includes the following functions:

- Fetal heart rate chart(s)
- Maternal heart rate and blood pressure
- Cervical dilatation and station
- Graphic presentation of fetal head orientation
- Contractions data - no. per 10 mins and relative strength
- Timeline(s) - real-time and/or elapsed time options
- Text fields - as required - eg. to record drugs, fluid intake/output, doctor's notes, etc. - vertical & horizontal text options.
- Scroll vertically or spread over multiple pages
- Horizontal scrolling for long labours
- Options for 15min, 30 min and hourly observations independently configurable for each element

Note: There is no facility to configure Partogram.

CTG Analysis – SW Optional

This option provides the Dawes/Redman analysis function - essentially equivalent to the FetalCare software package but including the following enhancements:

- Can run simultaneously on any number of installed beds (FetalCare is limited to a maximum of 4 beds)
- Trend view can be customised to trend all relevant data (FetalCare is limited to trend views of STV, Basal rate & movements)
- Analysis related information automatically logged in patient notes
- Bed frame header flashes to alert user when new analysis data is available

Note: There is no facility to configure CTG Analysis. Please contact Centrale Support on

centrale.support@huntleigh-diagnostics.co.uk if you wish to discuss configuration.

Chalkboard – SW Optional

This is the electronic equivalent of a 'White board' used in a delivery suite or ward to provide an overview of all activity and is used for shift hand-over and general management of the unit. This option provides the following extra functions:

For each bed, shows details as required in table form - as standard includes 3 columns:

- Consultant: to show name of consultant patient is booked under - free text or drop-down list
- Comments: to show summary of current clinical status - free text
- Midwife: to show name of midwife assigned to the patient - free text or drop-down list

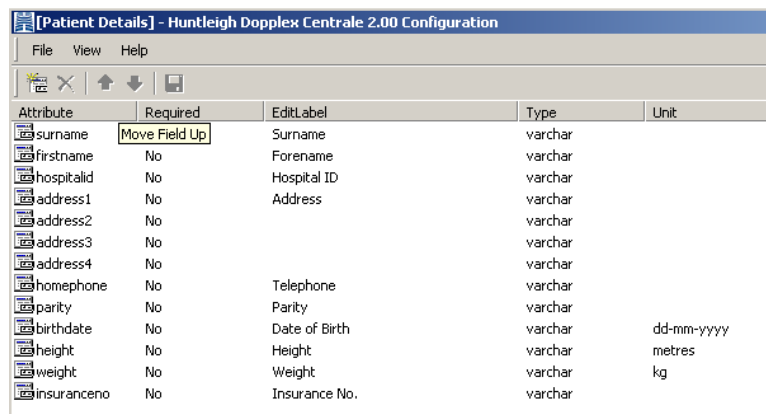
Also Includes Administration screen:

- shows the on-call duty rota for relevant staff, together with contact details
- fully customisable - can also be used to show theatre lists, NICU status, etc.
- Message board - informal 'chat-room' style message service - messages auto-flushed out after configurable time (default 24 hrs).

Sonicaid Centrale – Configuration of System Options using DCAdmin Tool

Patient Details (Available as Standard)

From DCAdmin start up screen select “View” and then “Patient Details” (see figure 6.1.1).

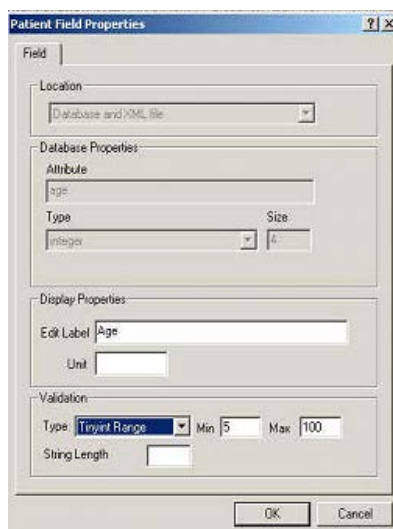


Attribute	Required	EditLabel	Type	Unit
surname	Move Field Up	Surname	varchar	
firstname	No	Forename	varchar	
hospitalid	No	Hospital ID	varchar	
address1	No	Address	varchar	
address2	No		varchar	
address3	No		varchar	
address4	No		varchar	
homephone	No	Telephone	varchar	
parity	No	Parity	varchar	
birthdate	No	Date of Birth	varchar	dd-mm-yyyy
height	No	Height	varchar	metres
weight	No	Weight	varchar	kg
insuranceno	No	Insurance No.	varchar	

Figure 6.1.1

Patient demographics such as Surname, Forename and contact details can be edited, or new fields can be created. Field size cannot be edited once data has been entered into a field. The main setup screen shows a brief description of the fields and their attributes.

New fields can be created by clicking on the icon immediately under the ‘File’ option. The cross is used to delete the field that is highlighted, while the up/down arrows change the place the field is displayed in the list. Clicking on the disk icon saves the settings. Fields listed with a yellow icon against them have the fields defined within the database however; the XML document that displays this data has not been created. This allows historical data to be maintained, as data fields with data in them cannot be deleted. By double clicking on the desired field, its properties can be displayed (see figure 6.1.2) and the appropriate changes can be made.



Patient Field Properties

Field

Location: Database and XML file

Database Properties:

Attribute: Age

Type: Integer Size: 4

Display Properties:

Edit Label: Age

Unit:

Validation:

Type: Tinyint Range Min: 5 Max: 100

String Length:

OK Cancel

Figure 6.1.2

Location

Lists the location of the patient field. By default this is the Database and XML file. Using the XML only file allows the attribute to be displayed within the screen used by Dopplex Centrale, this data is not stored. If the database option only is used, then the data stored is not available to be viewed by the user. This may be used in the case of fields no longer being required, but still maintains the historical data. Selecting both database and XML allow new fields data to be appended by the user and stored within the database.

Attribute

This is the name used within the database/XML and not the name that is displayed to the user. This database name must not have spaces.

Type/size

Options can be selected from variable character, float or integer.

Variable character allows the user to input text based data.

Float allows the user to input data that requires a decimal point i.e. 10.4

Integer allows the user to input data that is a whole number

Field size field; enter the maximum number of characters that will ever be used.

Edit label

This is the name displayed to the user.

Unit

Gives the option to display the units of measurement within the data window and displayed after the Value i.e. Weight 75Kg

Validation: Value

Checks that the data value falls within the max and min values chosen or the string length limits the length of the data.

Chalkboard – SW Optional

From DCAdmin start up screen select “View” and then “Chalkboard” (see figure 6.2.1)

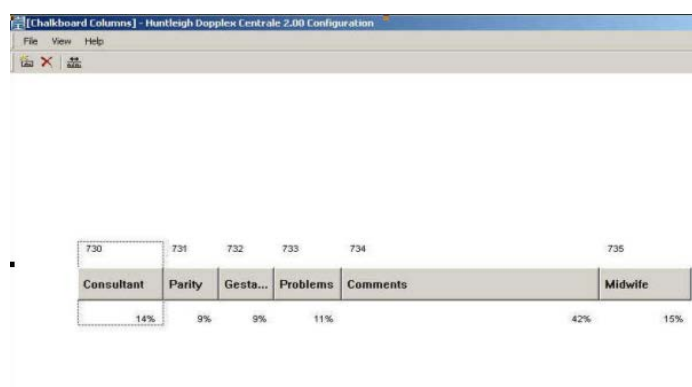


Figure 6.2.1

The red cross deletes the file highlighted, while the symbol to the right of the red cross allows all of the fields to be pre-set to the same width filling thereby screen. Clicking on the vertical bar between the fields allows the field width to be changed manually.

Clicking on the icon under the File command generates a new variable that can be configured as in figure 6.2.2 and 6.2.3.

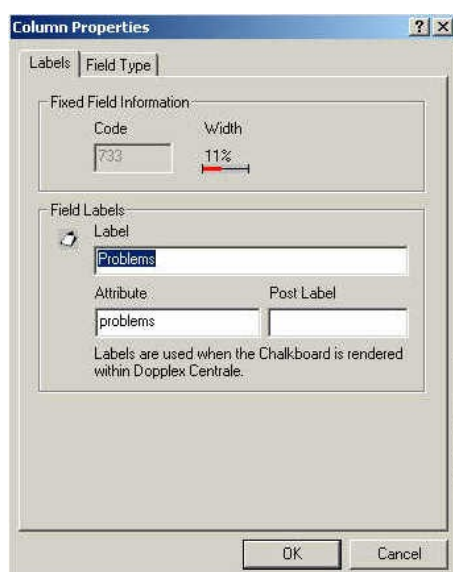


Figure 6.2.2

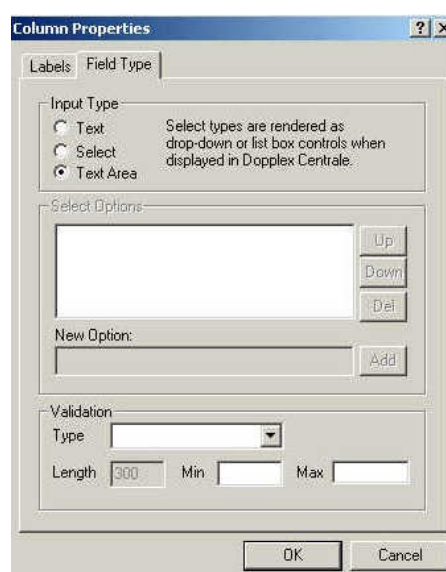


Figure 6.2.3

Code number

This is automatically generated by the Dopplex Centrale system and relates to a field within the database. This field is called up when required to provide the data in the format as shown above.

Label

This is the text that is displayed to the user, while the window labelled “attribute” is not used.

Post label

This is the label displayed after the field i.e. to enter gestational age this may be displayed in weeks, hence the post label may be ‘wks’.

The second tab sets the data attributes which may be defined as:

Text

For single line text entry.

Select

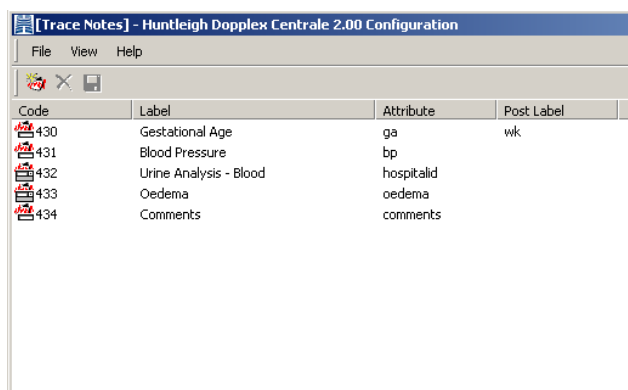
This will allow options from a preset list, this list can be generated using the ‘new option’ tab below and the validation rules applied as previously covered in the patient fields section. The order that these are displayed can be changed by selecting the field and then selecting up/down from the buttons alongside the option list.

Text area

This will allow several lines of text to be displayed.

Trace Notes (available as standard)

Each trace has the facility for recording a number of parameters about the patient's condition at the time of recording the trace. The notes will be available for editing in real-time modes and will be time/date stamped. The trace notes are also available for viewing for saved traces (see figure 6.3.1)



Code	Label	Attribute	Post Label
430	Gestational Age	ga	wk
431	Blood Pressure	bp	
432	Urine Analysis - Blood	hospitalid	
433	Oedema	oedema	
434	Comments	comments	

Figure 6.3.1

The following parameters are recorded in a trace note as standard:

“Gestational Age” in weeks and days,

“Blood Pressure” (free text)

“Urine Analysis – Blood”, a drop down list allowing the selection of nil, trace, +, ++, +++

“Oedema”, a drop down list allowing the selection of nil, +/-, +, ++, +++

“Comments”, an area for free text entry

Additional parameters can be added to the above by the system administrator. Editing the GA field should automatically update the EDD field within the patient details screen (see figure 6.3.2).

Label

This sets the trace note name as displayed in the trace notes dialog box and in Patient notes.

Attribute

This is the name used within the database/XML and not the name that is displayed to the user

Post label

This is the label displayed after the field i.e. to enter gestational age this may be displayed in weeks, hence the post label may be ‘wk’.

Input Type

The following Input types are available:

Label

List

Text Box

Text Area

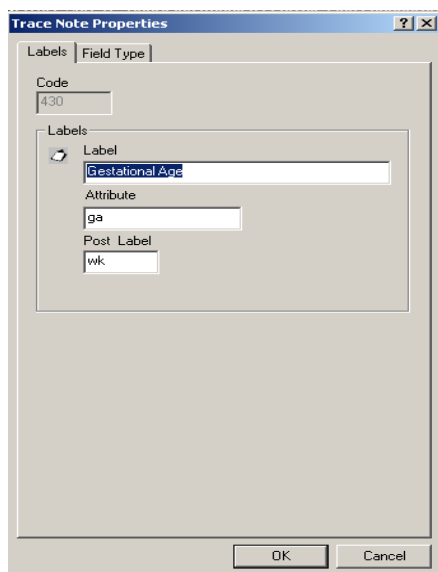


Figure 6.3.2

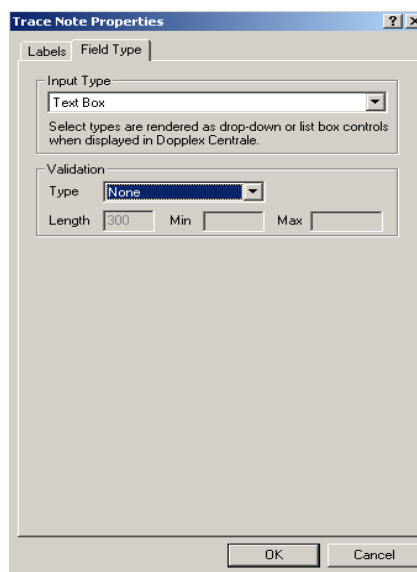


Figure 6.3.3

Bed Configuration (available as standard)

Beds can be arranged into groups or wards allowing the maximum use of the display to be gained. These groups can have all of the beds displayed, or be compressed showing only the beds of interest on the screen (see figure 6.4.1).

By clicking on the icon under the File option, a new bed can be created. The icon to the right of this allows a new bed group to be generated (see figure 6.4.2).

Bed Name

This sets the bed name as displayed on the bed group list, with the group name to which this is a member of being shown as confirmation.

Com Port

The com port is the port number allocated to the Serial Port Server as described in section 2.5, must be less than COM 74

DCI Server

The DCI Server name should be set to local

Auto-Discharge Timeout

Select this value in seconds for a patient to be automatically discharged. 0 indicates a patient will never be discharged.

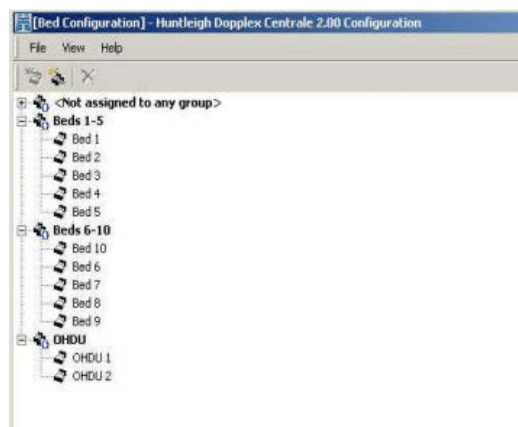


Figure 6.4.1

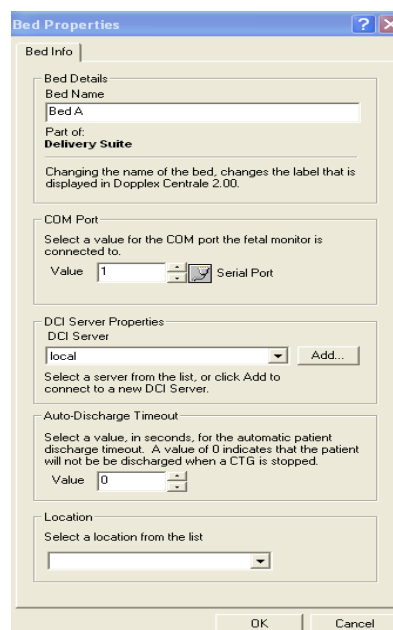
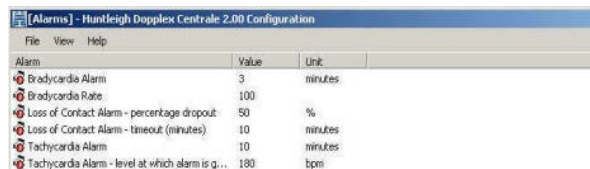


Figure 6.4.2

Fetal Heart Rate Alarms (available as standard)

Fetal Heart Rate (FHR) alarm default setting can be seen in figure 6.5.1.

Each alarm variable can be changed by clicking on the setting concerned as seen in figure 6.5.2



Alarm	Value	Unit
Bradycardia Alarm	3	minutes
Bradycardia Rate	100	
Loss of Contact Alarm - percentage dropout	50	%
Loss of Contact Alarm - timeout (minutes)	10	minutes
Tachycardia Alarm	10	minutes
Tachycardia Alarm - level at which alarm is g...	180	bpm

Figure 6.5.1

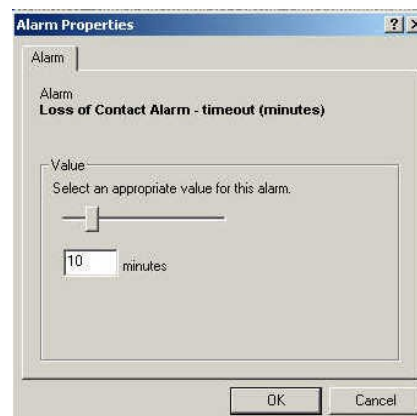
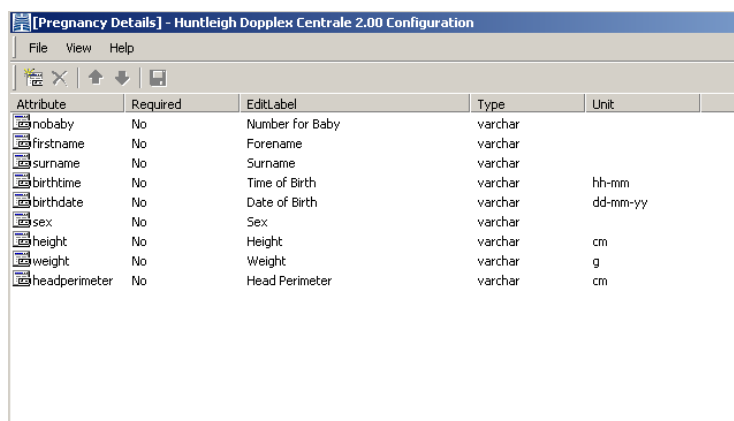


Figure 6.5.2

Pregnancy Details (available as standard)

Pregnancy details, i.e. data relating to the baby etc can also be customised to meet international or local requirements.



Attribute	Required	EditLabel	Type	Unit
nobaby	No	Number for Baby	varchar	
firstname	No	Forename	varchar	
surname	No	Surname	varchar	
birthtime	No	Time of Birth	varchar	hh-mm
birthdate	No	Date of Birth	varchar	dd-mm-yy
sex	No	Sex	varchar	
height	No	Height	varchar	cm
weight	No	Weight	varchar	g
headperimeter	No	Head Perimeter	varchar	cm

Figure 6.6.1

Similar to the patient field's configuration, Pregnancy demographics such as Forename and Surname can be edited, or new fields can be created. The main setup screen (figure 6.6.1) shows a brief description of the fields and their attributes. Clicking on the field allows the administrator to change the setting. New fields can be created by clicking on the icon immediately under the 'File' option. The cross is used to delete the field that is highlighted, while the up/down arrows change the place the field is displayed in the list. Clicking on the disk icon saves the settings. Fields listed with a yellow icon against them have the fields defined within the database, however, the XML document that displays this data has not been created. This allows historical data to be maintained, as data fields with data in them cannot be deleted. By clicking on the desired field, its properties can be displayed. See Below.

The screenshot shows a 'Patient Field Properties' dialog box with the following fields and options:

- Location:** A dropdown menu set to 'Database only'.
- Database Properties:**
 - Attribute:** Text field containing 'firstname'.
 - Type:** A dropdown menu set to 'varchar'.
 - Size:** A text field containing '50'.
- Display Properties:**
 - Edit Label:** An empty text field.
 - Unit:** An empty text field.
- Validation:**
 - Type:** A dropdown menu.
 - Min:** A text field.
 - Max:** A text field.
 - String Length:** A text field.

At the bottom right are 'OK' and 'Cancel' buttons.

Figure 6.6.2

Descriptions for each field are as in 6.1.

Browser Configuration (available as standard)

This will require a restart of the services.

Final Testing

The following tests should now be performed.

- 7.1** Connect the appropriate CTG monitor to the first NPort Device Server connection and ensure live Ultrasound / Toco data can be viewed after admitting a patient to a bed. Print this live data.
- 7.2** Turn off the CTG monitor and allow Sonicaid Centrale to return to the patient's home page and select the now saved trace and printout. Ensure both printouts match.
- 7.3** Repeat this procedure for each Port.
- 7.4** Check Trace Analysis, trend. Run analysis on selected trace; please refer to user manual on how to do this Section 3.8.5. Check that analysis results can be displayed and print out results.

System Backup

All backups are the responsibility of the local IT. The following are locations of the relevant files which will require backup:

C:\Program Files\Huntleigh Healthcare\Dopplex Centrale II\DB – Patient Information/trace files

C:\Program Files\Huntleigh Healthcare\Dopplex Centrale II\WebServer – Sonicaid Centrale setup files

C:\FHRBackup – Patient Demographic information.

Appendix A – Configuration of connector assembly.

2 Metre Network cables should be used as standard to connect the required CTG monitor to the NPort Device Server.

To connect the network cable to the required CTG monitor, a Male RJ45 – DB9 converter should be used and wired according to the table below.

CTG Device	RS Part # 625-6237	RS Part # 818-693	RS Part # 239-1207
BD4000	Pin 2 Green Pin 3 Red Pin 5 Black	Pin 2 Green Pin 3 Red Pin 5 Orange	N/A
Sonicaid Team/FMxxx/ HP Series 50	Pin 2 Red Pin 3 Green Pin 5 Black	Pin 2 Red Pin 3 Green Pin 5 Orange	N/A
* HP - Centronics M1350 "system connector"	N/A	N/A	Pin 24 Green/White Pin 8 Blue Pin 9 Blue/White

* You should cut the end off a CAT5 TS68B network cable and use the wiring diagram as described.

Corometrics Series Adapters

The Corometrics series of Fetal monitors use an RJ11 type connector, typically labelled as J109.

Monitor setup

Enter the Corometrics service menu, the password is the date.

Change the protocols for the J109 socket to HP protocol and 1200 baud.

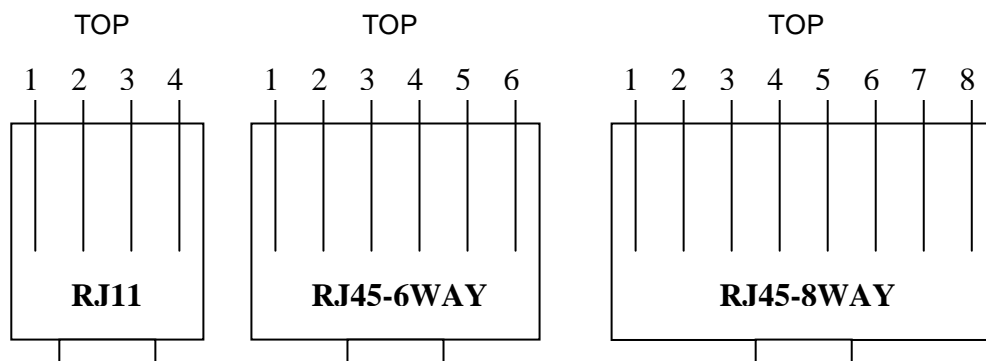
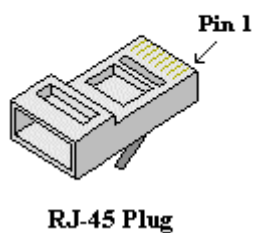


Fig1 View of Front of plugs with cables entered to the rear.



Please note, as the wiring colour can differ for the RJ11/RJ45 connectors, the wiring diagram should be followed below.

RJ11	RJ45-6WAY	RJ45-8WAY
1(RX)	3	4
2(GND)	5	6
3(GND)	6	7
4(TX)	4	5

The NPort Server is terminated with either a male DB9 connector or RJ45 connector.

In the case of a male DB9, to connect the network cable a female RJ45 – DB9 converter should be used and wired according to the table below.

RS Part # 625-6243	RS Part # 818-700
Pin 2 Green	Pin 2 Green
Pin 3 Red	Pin 3 Red
Pin 5 Black	Pin 5 Orange

Displaying Maternal Parameters on Sonicaid FM830, 850

Enter the FM830 setup menu, select systems settings. Enter 2775 and select Host CRS Interface. Change the protocol to HP 50, Select Exit 3 times to return to the main screen. Switch unit off and on to save changes.

Appendix B – Trouble Shooting.

Problem	Possible solution / explanations
Centrale Installer will not work	<ul style="list-style-type: none"> -Make sure Microsoft Dot Net 2.0 is installed -Make sure the login has full administration rights
No CTG Monitors displayed in left-hand bed frame.	<ul style="list-style-type: none"> -Check CTG Monitor is switched on. -Check Dcom Setting on server and client are set to everyone. -Check Moxa is on and com setting is correct.
Select Patient not flashing	-Check that Play animations in web pages and Play sounds in web pages is selected in advanced Internet options
White box were analysis should be	-Run Caspol Script line on client. See Section 6.5
Drop-out in CTG Signal	-Check Moxa settings, FIFO disabled and flow control to None.
E0226 – Sentinel Key not found	<p>Check Green Light is on Key if not re-insert key and restart services.</p> <ul style="list-style-type: none"> -Make sure Sentinel Key drivers have installed correctly. - There are limitations with using RDP, we recommended using VNC as RDP does not recognise the Security dongle.
Cannot view Centrale Welcome page	<ul style="list-style-type: none"> -Check Huntleigh Services are running. -Check Web server extensions are set to enable for ISAPI and DCWEB(Server 2003 only). -Make sure there are no errors if any xml files have been edited (E.g. No spaces in database field names).

Appendix C – Using AnywhereUSB to Connect USB Devices

Cabling AnywhereUSB

To connect the AnywhereUSB Concentrator to a network, connect a standard Ethernet network cable to your AnywhereUSB. Connect the other end of the Ethernet cable to a 10/100BaseT switch or hub. Be sure your network is configured so the guest operating system in your virtual machine can connect to the concentrator, as described in the *AnywhereUSB Remote I/O Concentrator Installation Guide*.

Special Steps for VMware ESX Server Virtual Machines

Since ESX Server does not provide direct support for USB, USB drivers are not installed in the guest operating system by default. The AnywhereUSB device depends on the USB core files to install properly.

To enable the rest of the installation to proceed normally, copy and rename the required file from the original operating system CD.

- Source: usbd.sy_ in the \I386 directory of the CD
- Destination: usbd.sys in the \system32\drivers directory of the guest operating system

After copying this file, reboot your machine. You can then continue with the normal AnywhereUSB installation.

Installing the Drivers

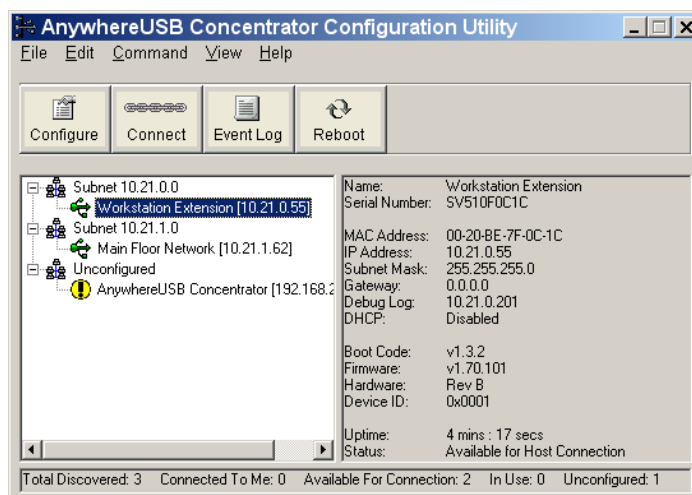
You must install a driver for each AnywhereUSB concentrator in the guest operating system of the VMware virtual machine in which you want to use a USB device connected to the concentrator. Take the following steps in a Windows XP or Windows 2000 guest operating system:

1. Insert the AnywhereUSB Driver CD into the CD drive connected to the virtual machine.
2. A welcome screen allows you to install the drivers.
3. Click Install Drivers to start the installation process. Follow the on-screen instructions to complete the installation of your AnywhereUSB concentrator.

After you install the drivers, the AnywhereUSB Configuration Utility automatically starts so you can configure your AnywhereUSB concentrator.

Configuring Your Concentrator

To configure your AnywhereUSB concentrator, launch the AnywhereUSB Configuration Utility from the Start menu. The utility displays a list of discovered AnywhereUSB Concentrators on your local subnet. A new AnywhereUSB concentrator has a default IP address of 0.0.0.0.



For more information on using AnywhereUSB please refer to Digi website at http://www.digi.com/pdf/wp_ESXServer_AnywhereUSB.pdf