

Installer's Quick Guide

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Preface

What this manual describes ...

This manual describes how the Cordless System Manager for Windows gives the administrator the ability to perform system initialization and system configuration for DCT1900 system.

The software is secure and user friendly, making use of a complete Windows based user interface.

This manual will provide you a step-by-step procedure on how to initialize and configure your DCT1900 system.

Who should use this manual ...

This manual is written for the installer of DCT1900 system.

It should be noted that only certified installers should be allowed to install and maintain the DCT1900 System using the CSMW. Therefore, the information contained in this manual is directed to personnel who have been properly trained and certified.

Where to find what ...

This manual is divided into sections.

Section 1 CPU Initialization

This section contains information on how to initialize the Stand Alone system containing a CPU (ROFNB 157 19/2).

Section 2 CPU2 and Mini Initialization

This section contains information on how to initialize both the Stand Alone system containing CPU2 (AWS1131) and the Mini system.

Section 3 Configuration

This section gives detailed information on how to add extension numbers, add base stations and program telephones.

Learn more about DCT1900 CSMW Quick Guide...

You can learn more about CSMW program through the help files. After you installed the CSMW software on your computer, the help files are available through CSMW help menu.

Chapter 1

Installing Cordless System Manager for Windows

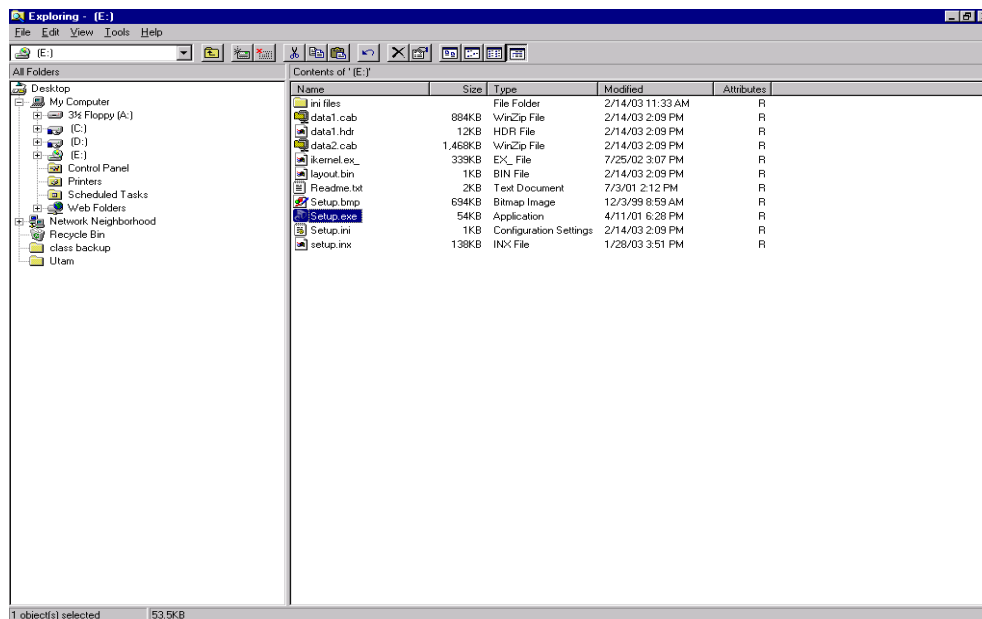
Before you install Cordless System Manager, make sure you have what you need to run the program on the computer.

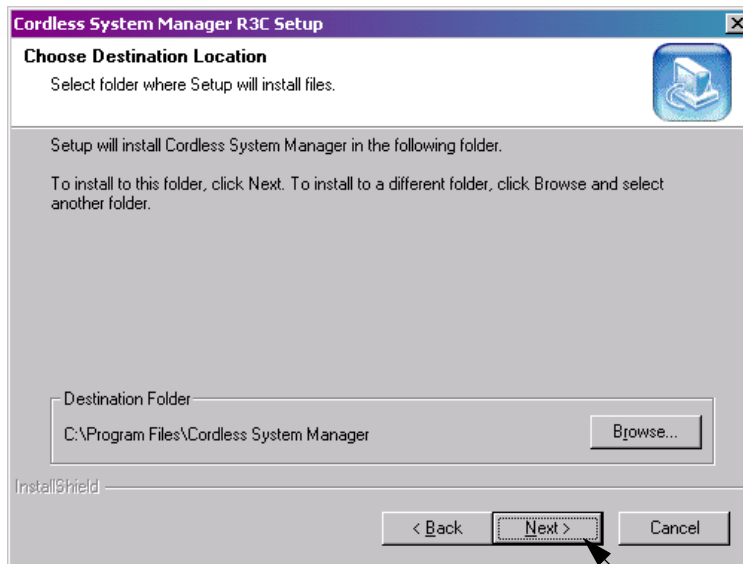
System Requirements

- Minimum Personal Computer configuration:
- Windows 95, 98, ME, NT 4.0, 2000 or XP
- 10MB disk space
- Super VGA monitor or better
- Comctl32.dll version 4.72 or later (with older version, the buttons in the toolbar maybe invisible). The newest version is available at <http://www.microsoft.com/msdownload/ieplatform/ie/comctrlx86.asp>
- Keyboard
- Mouse
- 2 dedicated com ports
- CD ROM drive

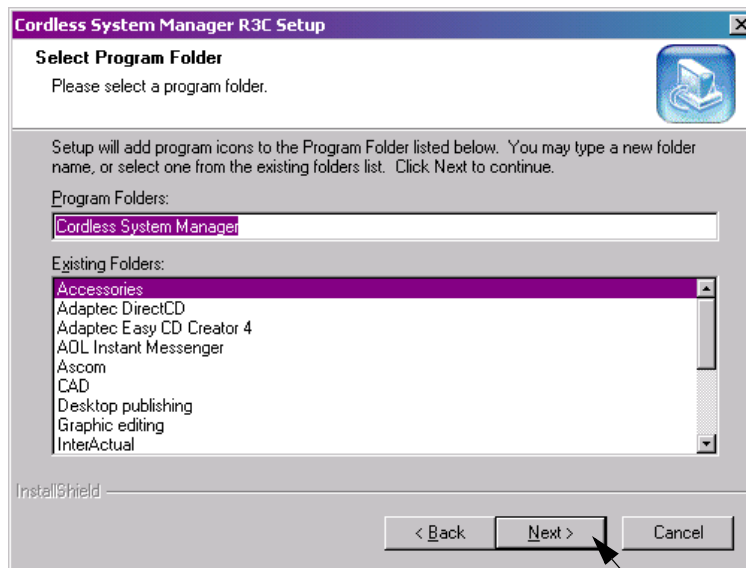
To install the CSMW:

1. Insert the CSMW CD-ROM in a CD-ROM drive.
2. Double click setup.exe and the install shield wizard will come up. Follow the instruction on the screen.

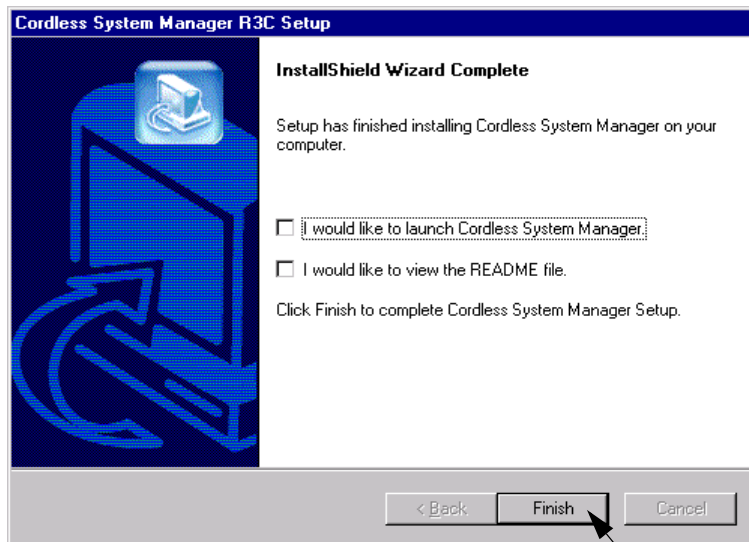




Choose the destination folder and click **Next**.



Select your program folder and click **Next**.



Select "I would like to launch Cordless System Manager" box. Click **Finish**.

Button Control



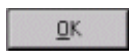
Establish connection to the cordless system.



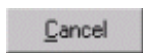
Disconnect from the cordless system.



Initialize DCT1900 system



Save current settings and close dialog box.



Return to previous settings and close dialog box.



Display context sensitive help on the active dialog box.



Display advanced tabs such as *Carrier* and *Automatic System Test*

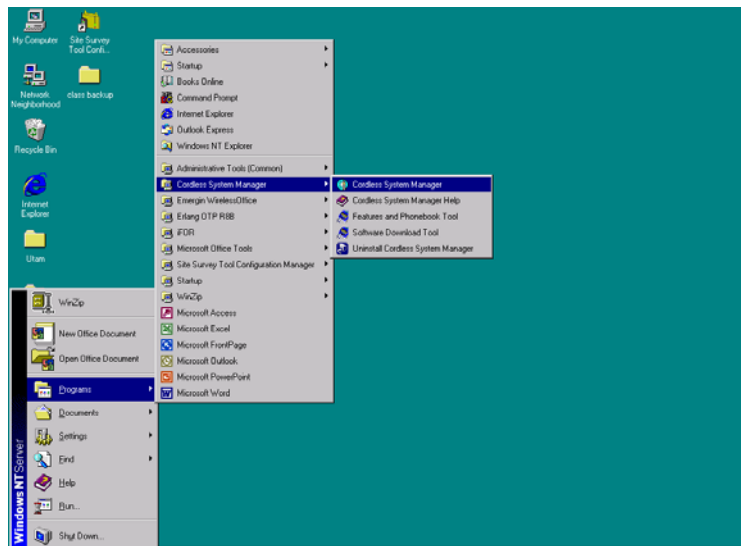
Chapter 2

Getting Started - CPU

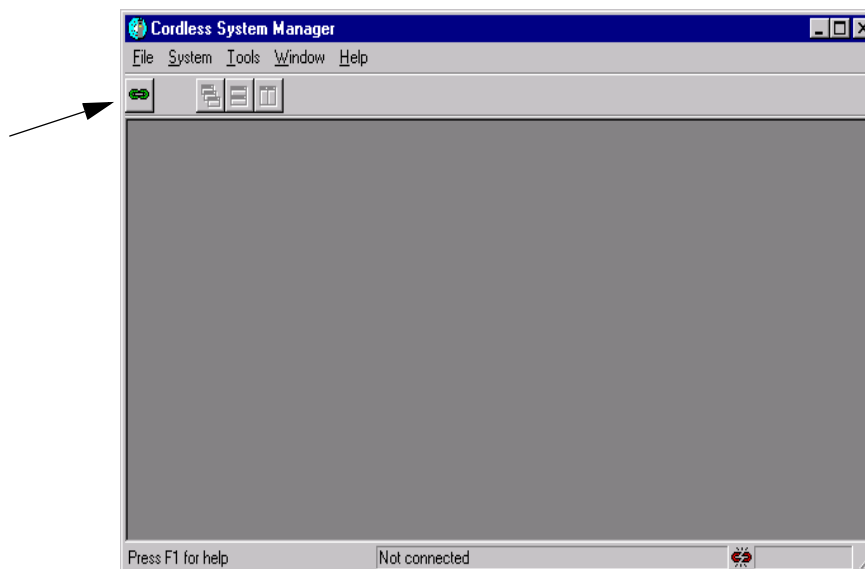
The DCT1900 system has two different states: initialized and un-initialized. The CSMW is used to control the system when it is in either state.

If you have a system containing CPU (ROFNB 157 19/2), follow the steps below to initialize your system.

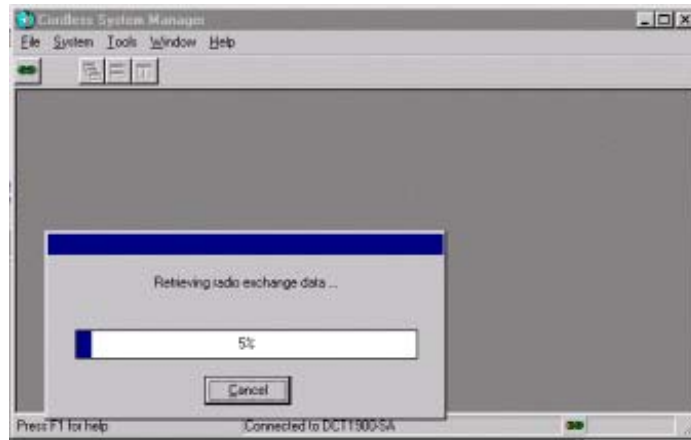
1. Run the CSMW from the start menu.



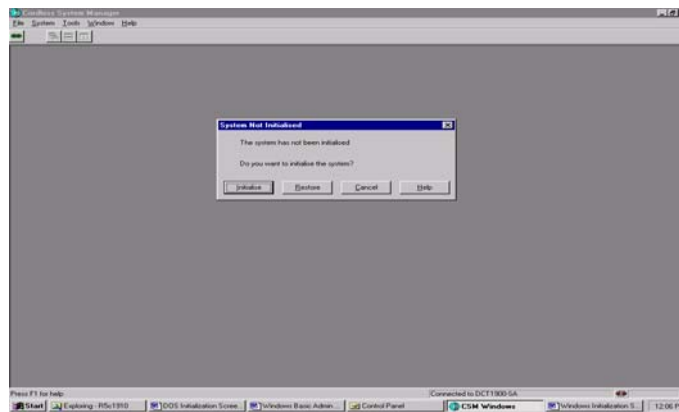
2. When the CSMW displays the main window, click the **Connect** button.



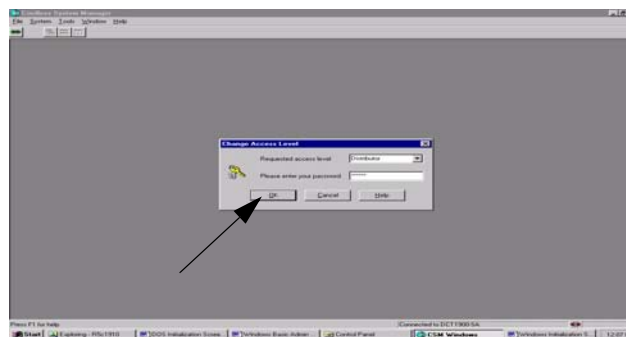
- The CSMW window will connect to the CPU and will retrieve information needed for the initialization of the system.



- Click **Initialize**.



- When the Cordless system is not yet initialized, CSMW will request the input of the distributor access level password. Enter the password and click **OK**.



6. The CSMW displays a window containing various tabs that must be filled in with data as needed. Click **Advanced** to display hidden initialization tabs
7. At the Initialization screen - **General** tab, define:
 - Date and time
 - Distributor password
 - System number

The screenshot shows a software window titled 'General settings' with several tabs at the top: 'Automatic system test', 'SiCoFi', 'SPU-S', 'Base Station', 'TAP', 'DLU', 'General', 'System', 'CPU', 'Wait for dial tone', 'Ringing cadences', and 'Carrier'. The 'General' tab is selected. Below the tabs, there are four main sections: 'Date' with a dropdown menu showing '7/18/03', 'Time' with a dropdown menu showing '8:46:32 AM', 'Distributor password' with 'Password' and 'Confirm password' fields (both masked with asterisks), and 'System number' with an empty text field. At the bottom of the window, there are four buttons: 'Advanced<<', 'OK', 'Cancel', and 'Help'. An arrow points to the 'Advanced<<' button.

To complete the initialization of the system, click the appropriate tabs and fill in all the data needed.

8. At the Initialization screen - **System** tab, fill in the appropriate information needed:
- Select country
 - Enter number of cabinets
 - Define the synchronization delay

Note: The remaining country dependent fields can be changed if they do not require the defaults.

Automatic system test | SiCoFi | SPU-S | Base Station | TAP | DLU

General | System | CPU | Wait for dial tone | Ringing cadences | Carrier

System settings Restore country settings

Country: Argentina

Dialling method: DTMF

R-button method: Flash Differential ringing:

Number of cabinets: 1 Framing Format: SuperFrame

Interface Selection: T1 Line Coding Format: AMI-ZCS

Speech Encoding Method: A-law

Silence detection: Enabled

Hook flash length/min. ring pulse: 120/100

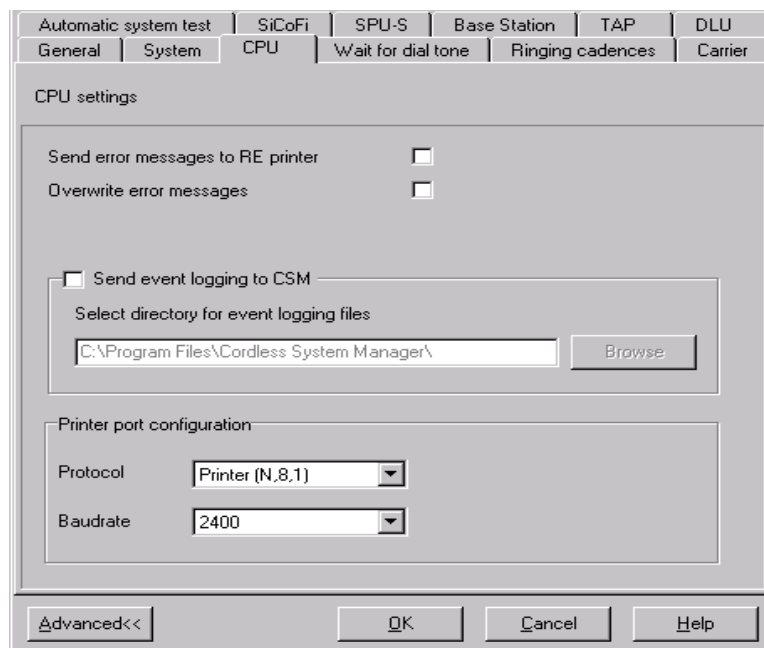
Synchronisation delay: 0 (0..10000) ns

Advanced<< OK Cancel Help

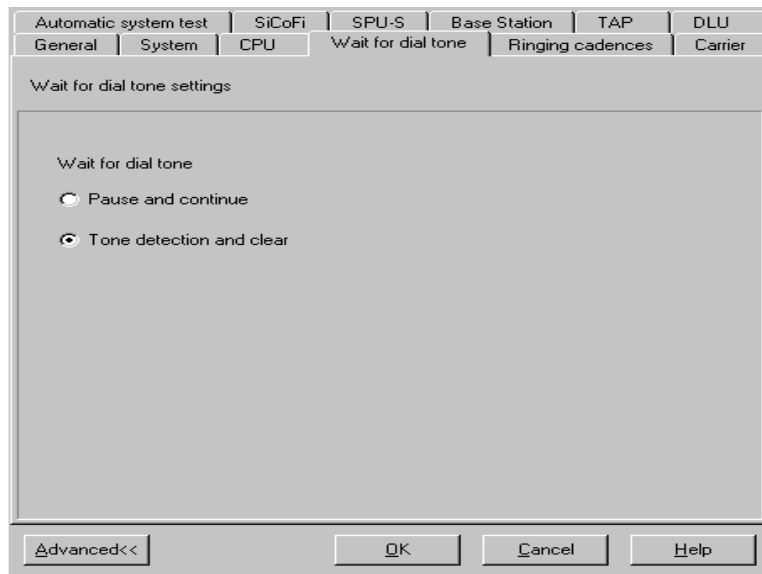
9. At the Initialization screen - **CPU** tab, fill in the appropriate information as needed:
- Check the button if you want to Send error messages to RE printer.
Note:Do not check if your system is to be used for text messaging.
 - Check the button if you want to Overwrite error messages.
 - Check the button if you want to Send event logging to CSM. If selected, then specify the directory to store the event logging files

In the printer port configuration section, with the use of pull down arrow, define:

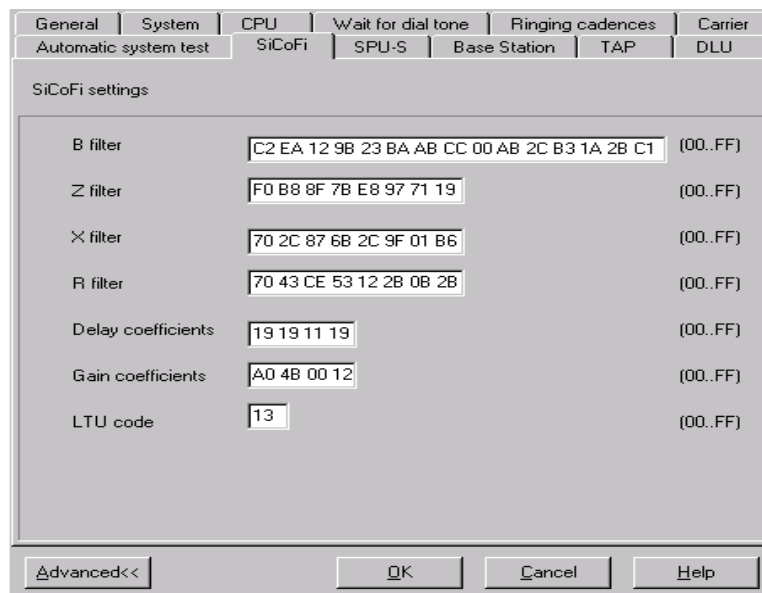
- Protocol - select TAP only if system is to be used for text messaging.
- Baud Rate - select desired communication rate for the printer port.



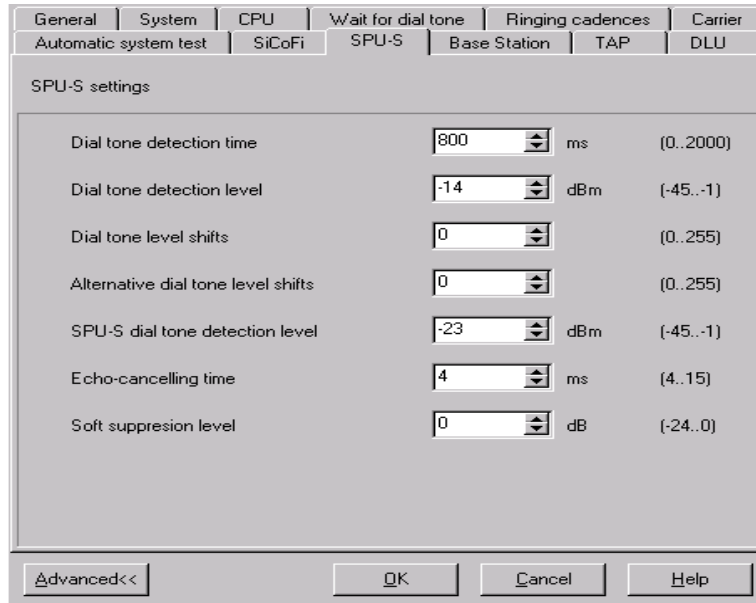
10. At the Initialization screen - **Wait for dial tone** tab, enable the desired option:
 - Pause and continue
 - Tone detection and clear



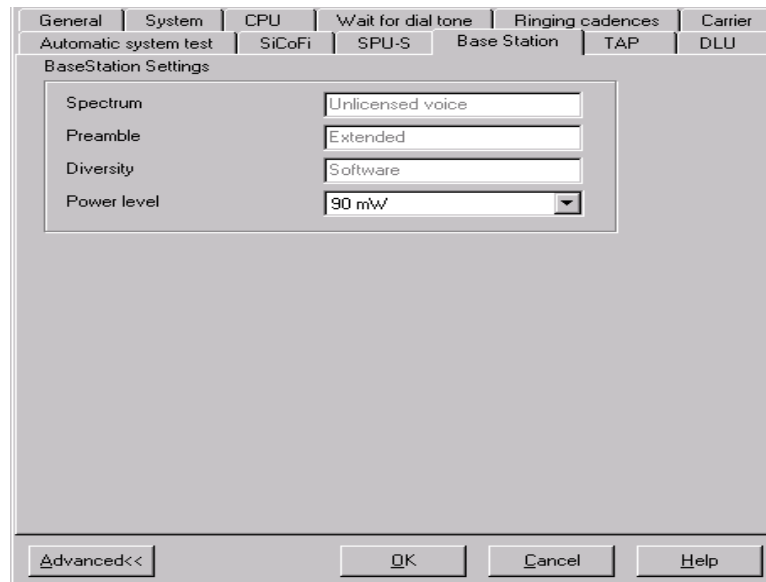
11. At the Initialization screen - **SiCoFi** tab, the fields are set to country dependent default values and must not be changed.



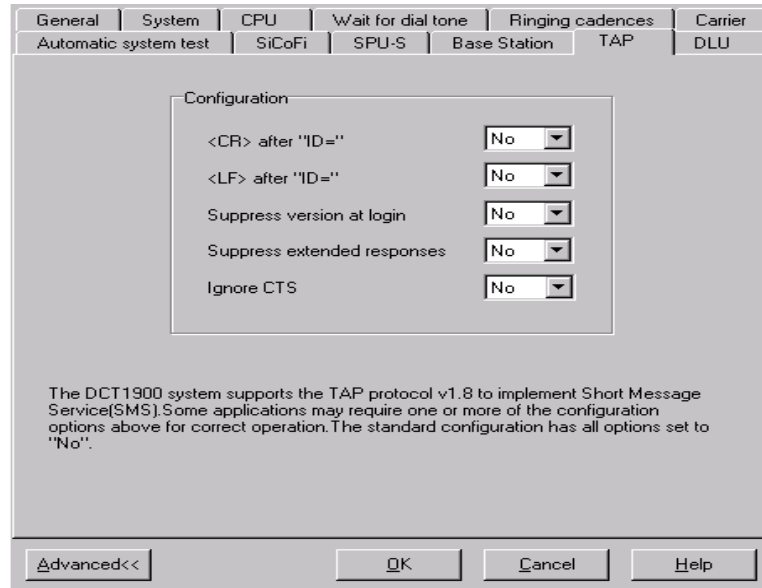
- At the Initialization screen - **SPU-S** tab, leave the default settings unless using advanced nurse call integration, then change dial tone detection time to 2000 ms.



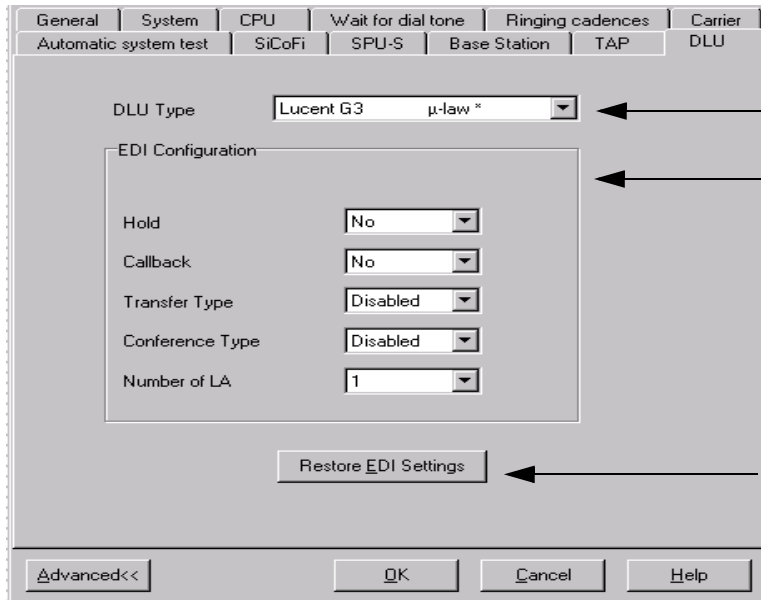
- At the Initialization screen - **Base Station** tab, choose the power level.



14. At the Initialization screen - **TAP** tab, leave the default settings unless using advanced nurse call integration.



15. At the Initialization screen - **DLU** tab, fill in the appropriate information as needed:
 - Choose DLU type
 - Customize the EDI Configuration



If a DLU was previously configured in the system, the type will automatically populate, although the EDI configuration settings are either disabled or set to minimum values.

Click button to properly restore the default settings of selected DLU type.

16. At the Initialization screen - **Ringing cadences** tab, define:

- Internal
- External
- Call back

Leave custom field blank. Check the button for Repetitive pattern synchronization with incoming call if you want this feature enabled.

Automatic system test	SiCoFi	SPU-S	Base Station	TAP	DLU
General	System	CPU	Wait for dial tone	Ringing cadences	Carrier

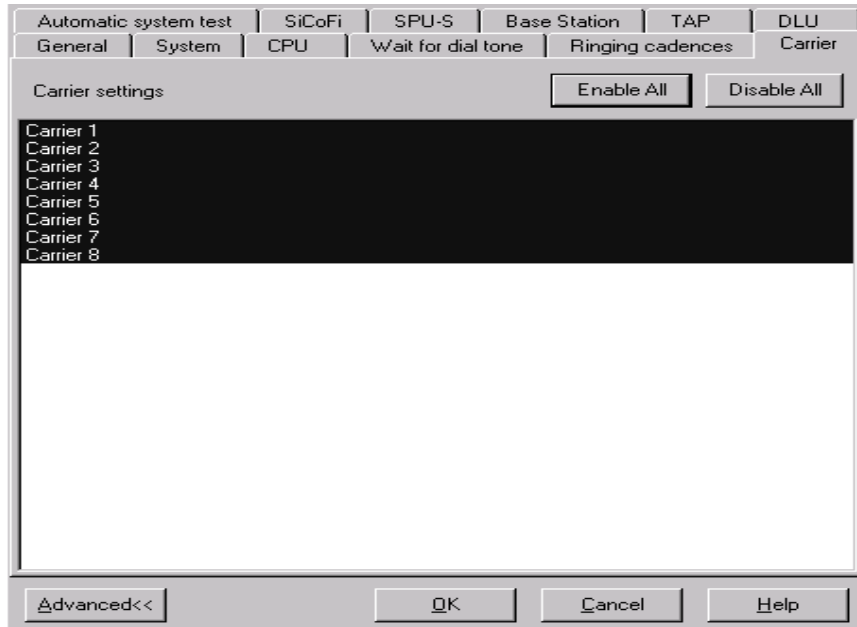
Ringing cadences settings (On/Off time in ms) Clear All

	1 On	1 Off	2 On	2 Off	3 On	3 Off	4 On	4 Off
Internal								
External								
Call back								
Custom								

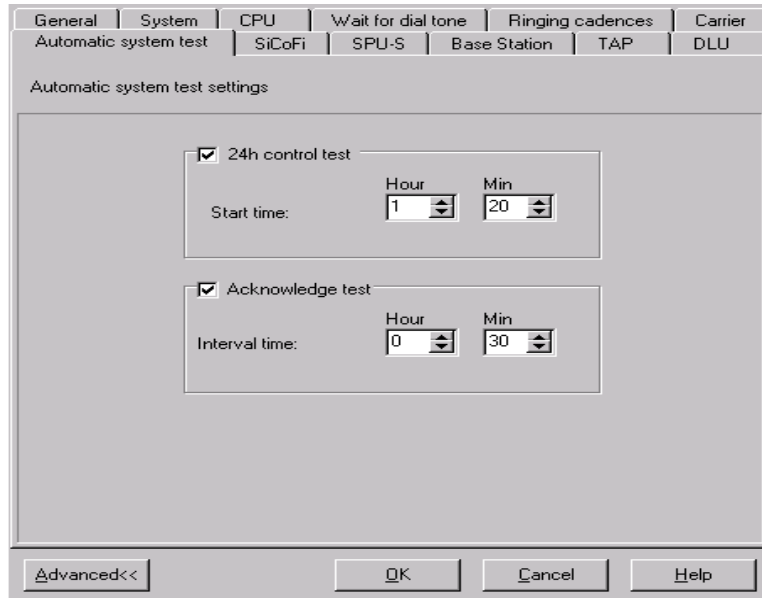
Repetitive pattern synchronised with incoming call

Advanced<< OK Cancel Help

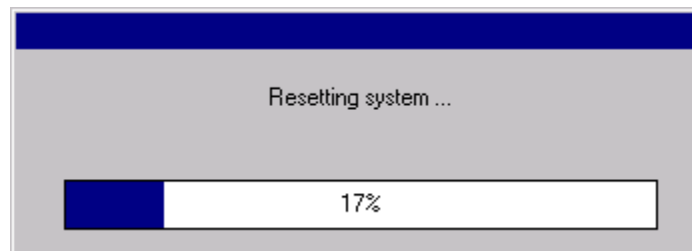
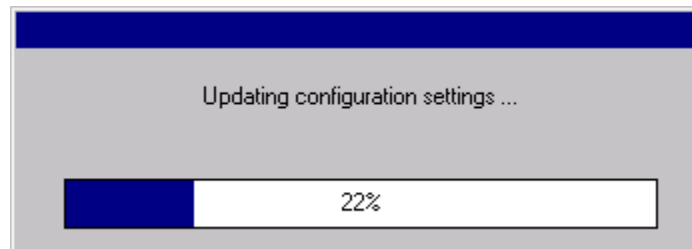
17. At the Initialization screen - **Carrier** tab, you can enable all or disable all carriers by clicking the *enable all* or *disable all* buttons. You can also enable or disable certain carriers by highlighting or unhighlighting the desired carrier.



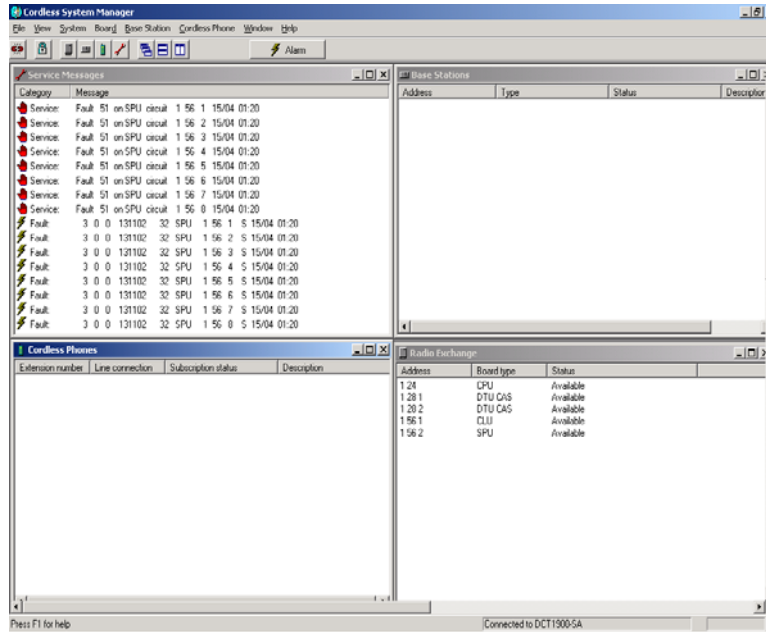
- At the Initialization screen - **Automatic system test** tab, the tests are automatically enabled with default times. Set the start and interval times to get the desired behavior.



- Click **OK**. The system will reset after storing the initialization data in the system.



The system will automatically populate and display the four main sub-windows.



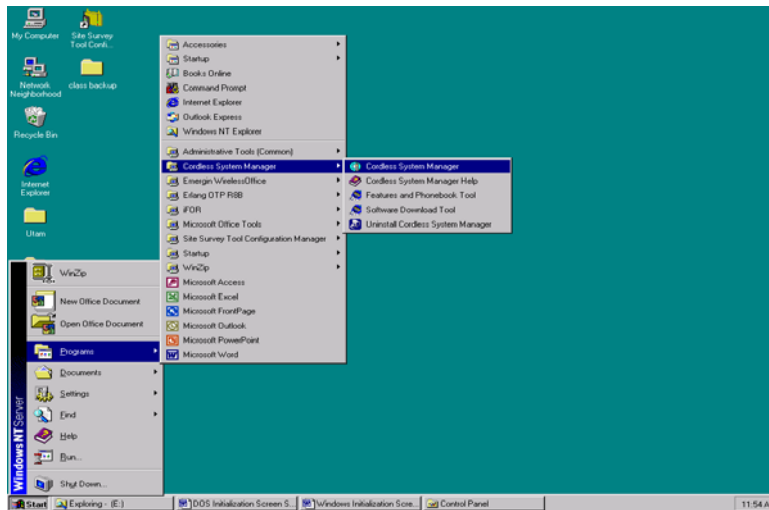
Chapter 3

Getting Started - CPU2 or DCT1900 Mini System

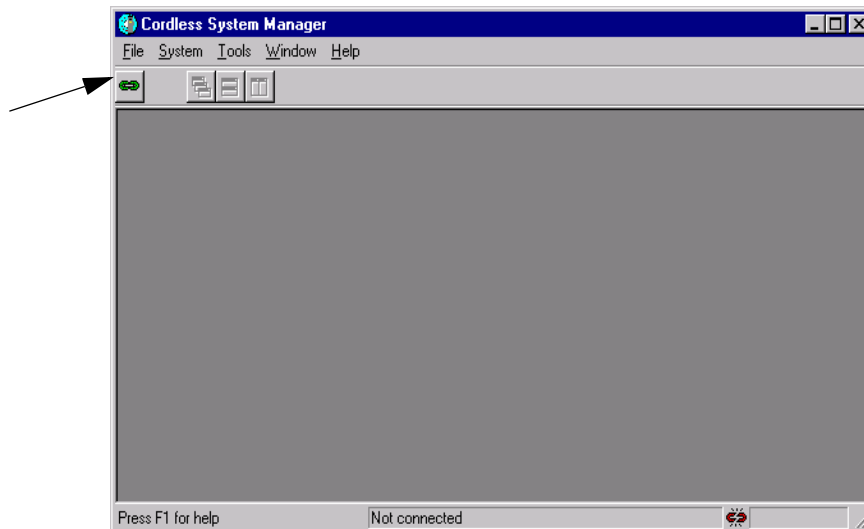
The DCT1900 system has two different states: initialized and un-initialized. The CSMW is used to control the system when it is in either state.

If you have a system containing CPU2 (AWS1131) or a MINI system, follow the steps below to initialize your system.

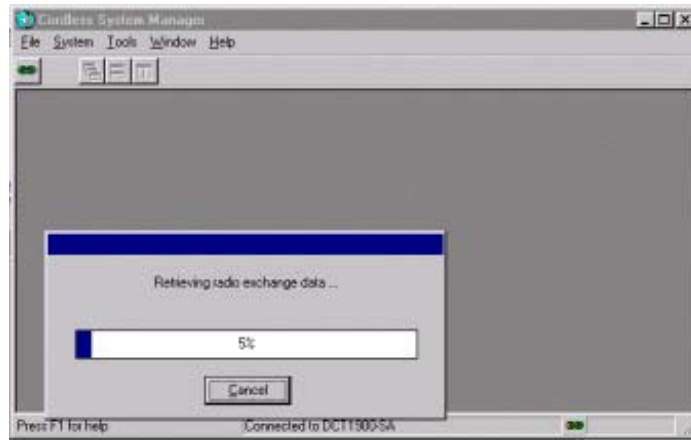
1. Run the CSMW from the start menu.



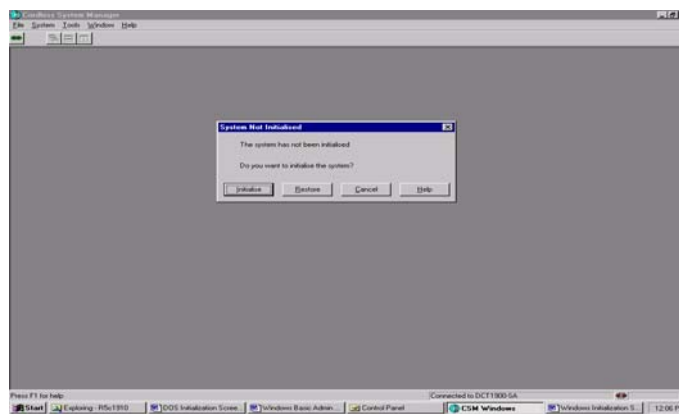
2. When the CSMW displays the main window, click the **Connect** button



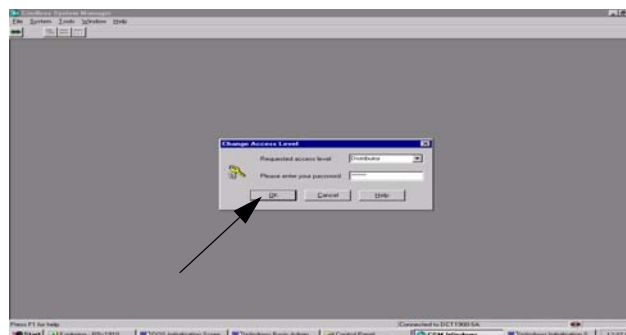
- The CSMW will connect to the CPU and will retrieve information needed for the initialization of the system.



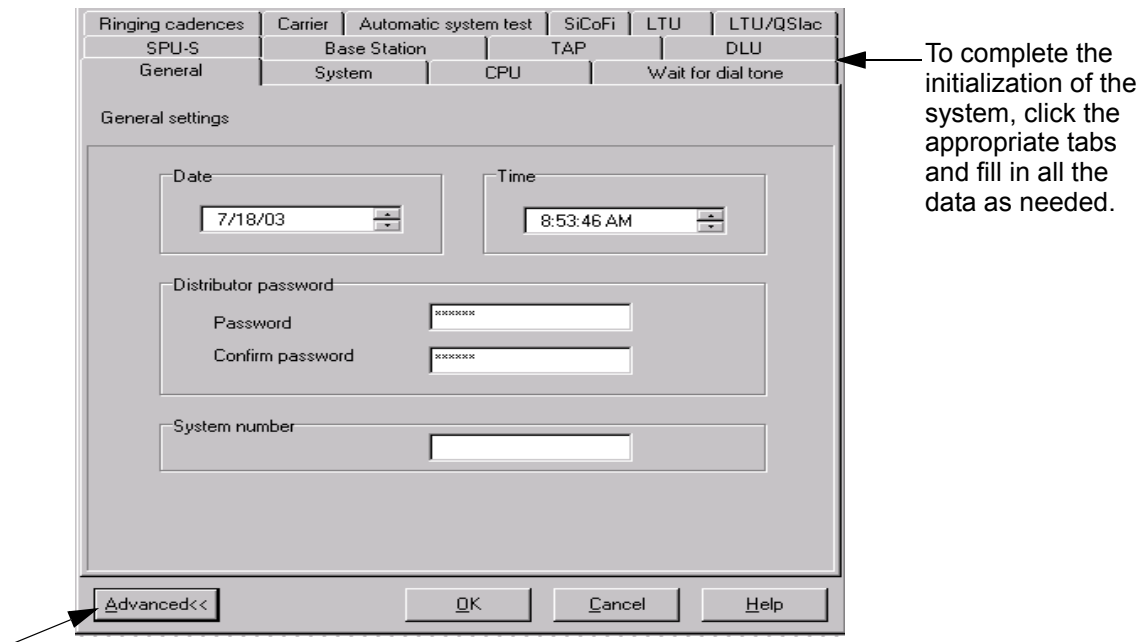
- Click **Initialize**.



- When the Cordless system is not yet initialized, CSMW will request the input of the distributor access level password. Enter the password and click **OK**.



6. The CSMW displays a window, containing various tabs that must be filled in with data as needed. Click **Advanced** to display hidden initialization tabs
7. At the Initialization screen - **General** tab define:
 - Date and time
 - Distributor password
 - System number



8. At the Initialization screen - **System** tab, fill in the appropriate information needed:
- Select country
 - Enter number of cabinets
 - Define the synchronization delay

Note: The remaining country dependent fields can be changed if they do not require the defaults.

Ringing cadences	Carrier	Automatic system test	SiCoFi	LTU	LTU/QSIac
SPU-S	Base Station	TAP	DLU		
General	System	CPU	Wait for dial tone		

System settings Restore country settings

Country: USA

Dialling method: DTMF

R-button method: Flash Differential ringing:

Number of cabinets: 1 Framing Format: SuperFrame

Interface Selection: E1 Line Coding Format: B8ZS

Speech Encoding Method: u-law

Silence detection: Disabled

Hook flash length/min. ring pulse: 520/100

Synchronisation delay: 0 (0..10000) ns

Advanced<< OK Cancel Help

9. At the Initialization screen - **CPU** tab, fill in the appropriate information as needed:
- Check the button if you want to Send error messages to RE printer.
Note: Do not check if your system is to be used for text messaging.
 - Check the box if you want to Overwrite error messages.
 - Check the box if you want to Send event logging to CSM. If selected, then specify the directory to store the event logging files.

In the printer port configuration section, with the use of pull down arrow, define:

- Protocol - select TAP only if system is to be used for text messaging.
- Baud Rate - select desired communication rate for the printer port.

Ringing cadences	Carrier	Automatic system test	SiCoFi	LTU	LTU/QSlac
SPU-S	Base Station		TAP		DLU
General	System	CPU			Wait for dial tone

CPU settings

Send error messages to RE printer

Overwrite error messages

Send event logging to CSM

Select directory for event logging files

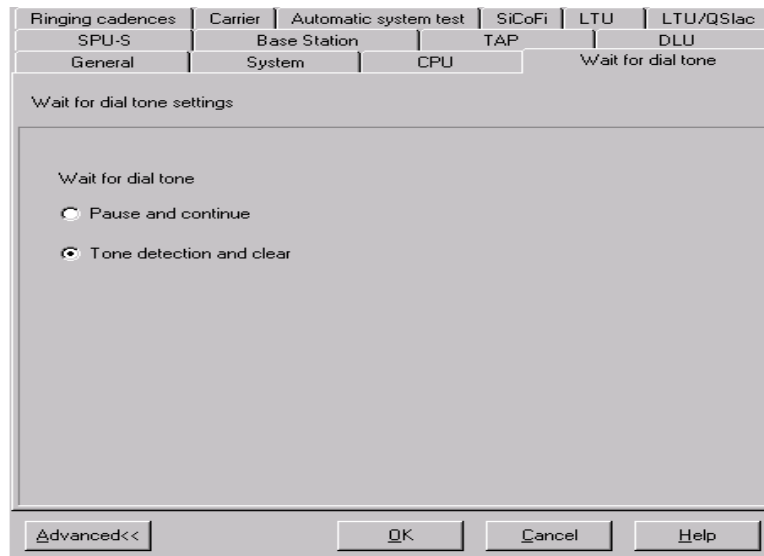
C:\Program Files\Cordless System Manager\

Printer port configuration

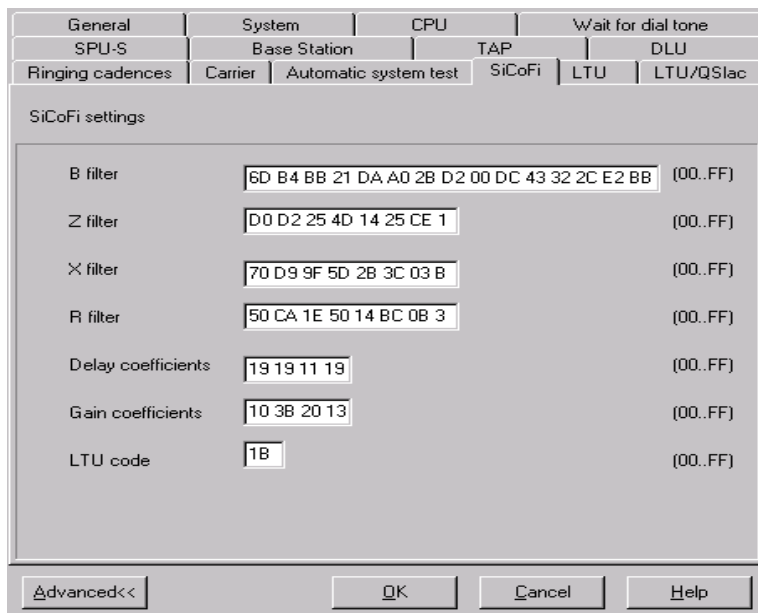
Protocol ▼

Baudrate ▼

10. At the Initialization screen - **Wait for dial tone** tab, enable the desired option:
 - Pause and continue
 - Tone detection and clear



11. At the Initialization screen - **SiCoFi** tab, the fields are set to country dependent default values and must not be changed.



12. At the Initialization screen - **LTU** tab, the fields are set to country dependent values and must not be changed.

General	System	CPU	Wait for dial tone
SPU-S	Base Station	TAP	DLU
Ringing cadences	Carrier	Automatic system test	SiCoFi
		LTU	LTU/QSlac

LTU settings

PCM coding	<input type="text" value="μ-Law"/>	
Dial make period	<input type="text" value="40"/> ms	(0..255)
Dial break period	<input type="text" value="60"/> ms	(0..255)
Pulse dial inter-digit time	<input type="text" value="900"/> ms	(0..2550)
Pulse dialing method	<input type="text" value="Default"/>	
Offhook seizure time	<input type="text" value="40"/> ms	(0..2550)
Hook flash period	<input type="text" value="500"/> ms	(0..2550)
Earth button period	<input type="text" value="700"/> ms	(0..2550)
Ringing frequency parameters	<input type="text" value="16 55 08 00 00 00 00 00"/>	(0..99)
LTU capabilities	<input type="text" value="00 00 00 00 00 00 00 00"/>	(00..FF)

- At the Initialization screen - **LTU/QSIac** tab, the fields are set to country dependent values and must not be changed.

General	System	CPU	Wait for dial tone
SPU-S	Base Station	TAP	DLU
Ringing cadences	Carrier	Automatic system test	SiCoFi
			LTU
			LTU/QSIac

LTU/QSIac settings

GR filter	C2 31	(00..FF)
GX filter	3B 20	(00..FF)
ZF filter	3C 2B 22 ED 3B A4 B2 A4 A2 AC B3 3B B5 A8 F	(00..FF)
RF filter	DC 01 3B 00 2A 38 32 2D C5 B1 AA A9 87	(00..FF)
XF filter	2A 20 42 BA 97 3D BB A3 BA 2E 32	(00..FF)
BFIR filter	CA C3 A8 B1 89 78 AB 9A AA BB B3 DC AE	(00..FF)
BIIR filter	AD 31	(00..FF)
AISN/AX/AR filter	51	(00..FF)

Advanced<< OK Cancel Help

- At the Initialization screen - **SPU-S** tab, leave the default settings unless using advanced nurse call integration, then change dial tone detection time to 2000 ms.

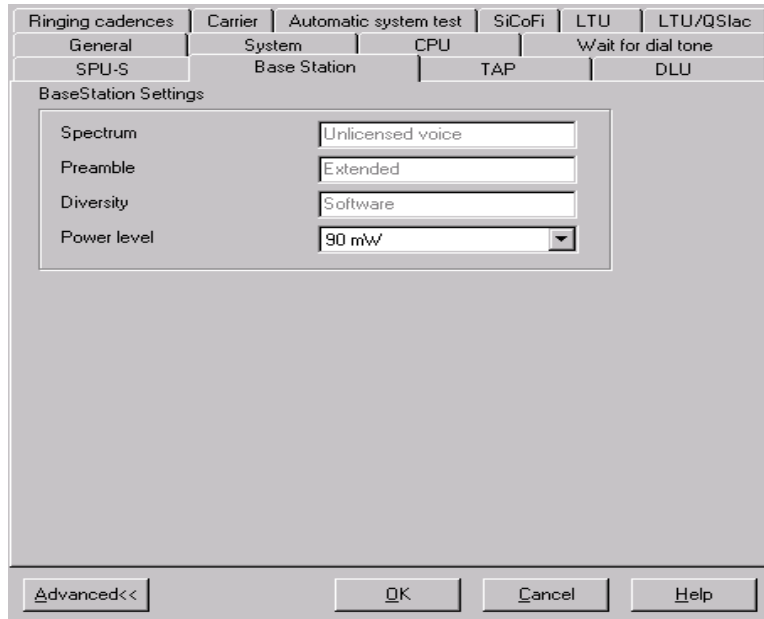
Ringing cadences	Carrier	Automatic system test	SiCoFi	LTU	LTU/QSIac
General	System	CPU	Wait for dial tone		
SPU-S	Base Station	TAP	DLU		

SPU-S settings

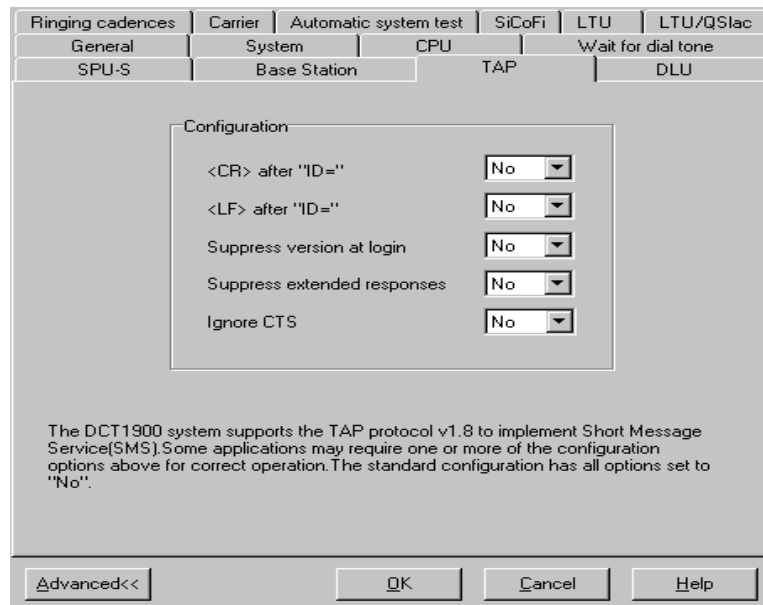
Dial tone detection time	800	ms	(0..2000)
Dial tone detection level	-25	dBm	(-45..-1)
Dial tone level shifts	0		(0..255)
Alternative dial tone level shifts	0		(0..255)
SPU-S dial tone detection level	-29	dBm	(-45..-1)
Echo-cancelling time	4	ms	(4..15)
Soft suppression level	-12	dB	(-24..0)

Advanced<< OK Cancel Help

- At the Initialization screen - **Base Station** tab, choose the power level.



- At the Initialization screen - **TAP** tab, leave the default settings unless using advanced nurse call integration.



17. At the Initialization screen - **DLU** tab, fill in appropriate information as needed:
 - Choose DLU type
 - Customize EDI configuration

If a DLU was previously configured in the system, the type will automatically populate, although the EDI configuration settings are either disabled or set to minimum values.

Click button to properly restore the default settings of selected DLU type.

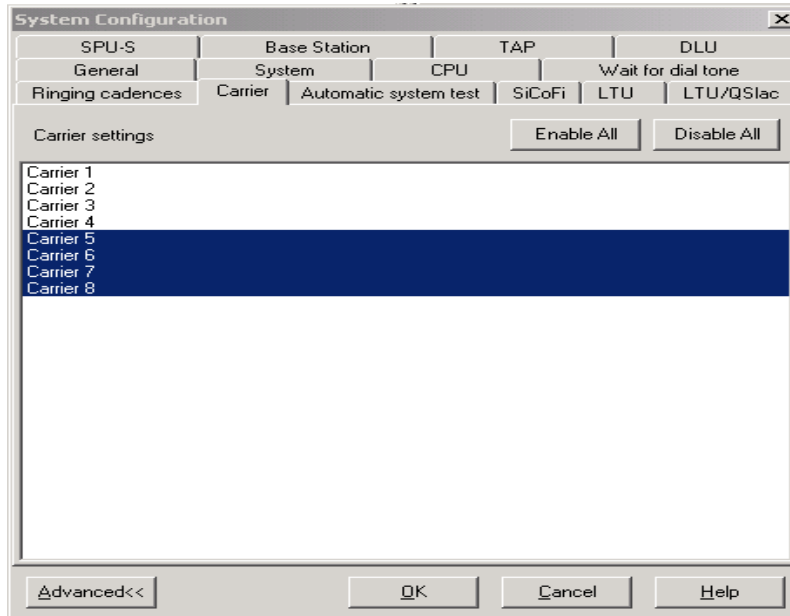
18. At the Initialization screen - **Ringling cadences** tab, define:

- Internal
- External
- Call back

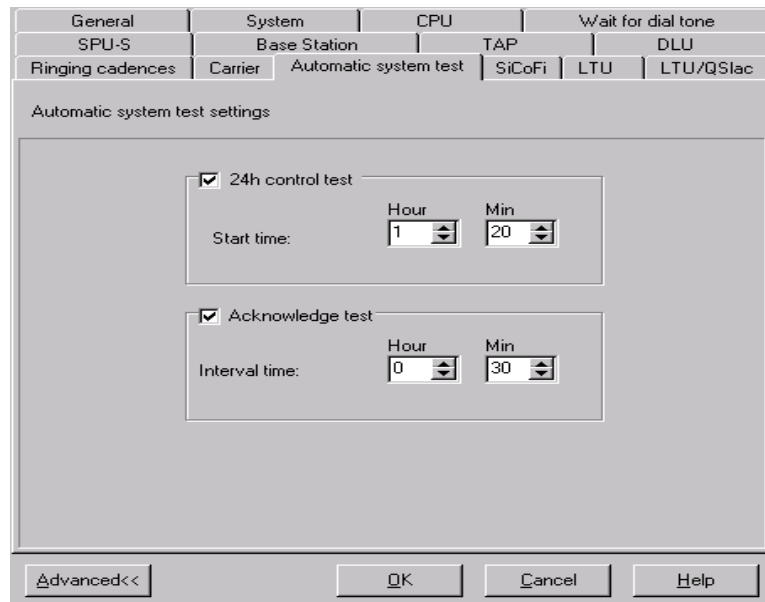
Leave custom field blank. Check the box for Repetitive pattern synchronization with incoming call if you want this feature enabled.

General	System	CPU	Wait for dial tone					
SPU-S	Base Station	TAP	DLU					
Ringling cadences	Carrier	Automatic system test	SiCoFi	LTU	LTU/QSlac			
Ringling cadences settings (On/Off time in ms)						Clear All		
	1 On	1 Off	2 On	2 Off	3 On	3 Off	4 On	4 Off
Internal								
External								
Call back								
Custom								
<input checked="" type="checkbox"/> Repetitive pattern synchronised with incoming call								
Advanced<<		OK		Cancel		Help		

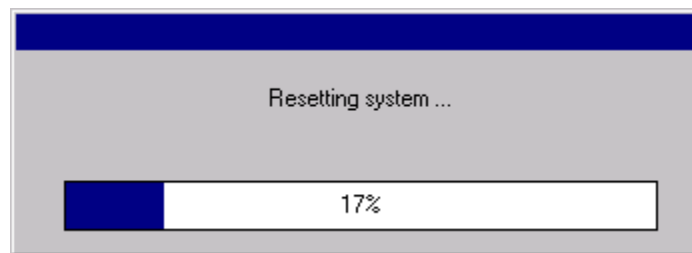
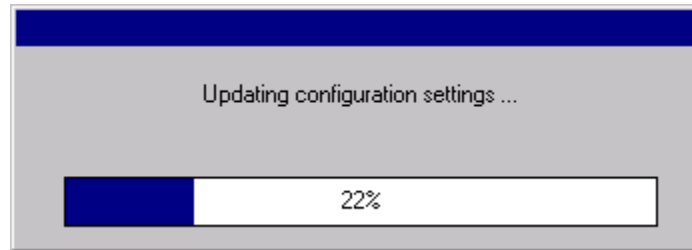
- At the Initialization screen - **Carrier** tab, you can enable all or disable all carriers by clicking the *enable all* or *disable all* buttons. You can also enable or disable certain carriers by highlighting or unhighlighting the desired carrier.



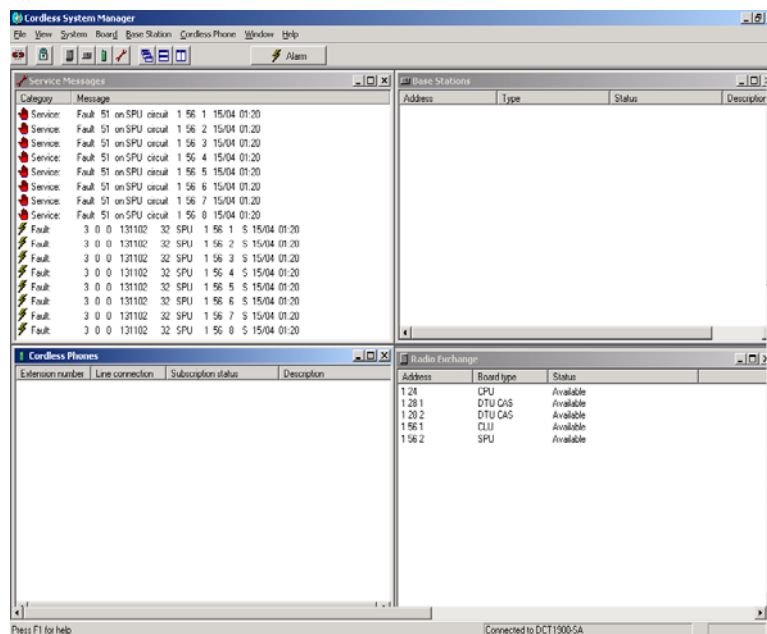
- At the Initialization screen - **Automatic system test** tab, the tests are automatically enabled with default times. Set the start and interval times to get the desired behavior.



21. Click **OK**. The system will reset after storing the initialization data in the system.



The system will automatically populate and display the four main sub-windows.

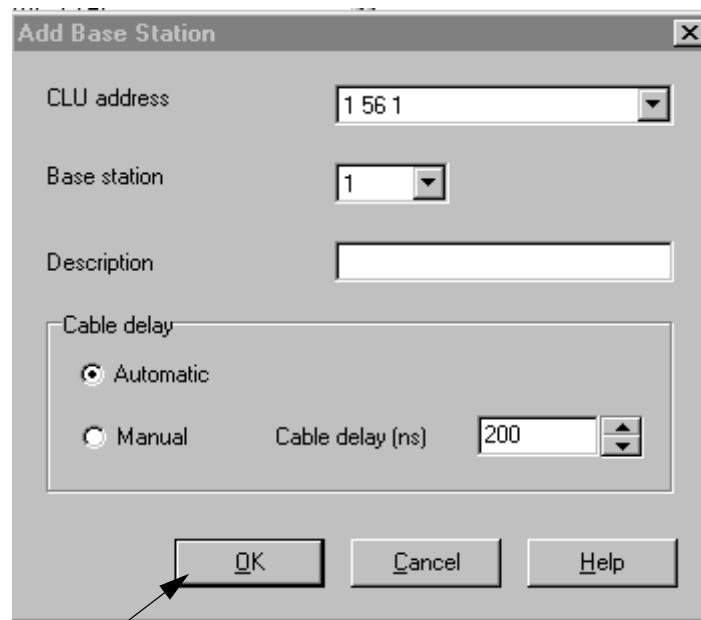


Chapter 4

Configuration

This section will guide the installer on how to add extension numbers, add base stations and program telephones. To get more detailed information on each operation, see the CSMW help files.

Add Base Stations



1. Open the Add Base Station window by choosing the menu **Base Station-Add Base Station**.
2. At the **Add Base Station** screen:
 - Select the **CLU Address**, which is the address of a CLU or a SLU.
 - Select the **Base Station** port on the board.
 - The **Description** field is optional, but can be used to store a description of the base station.
 - Select the **Cable delay**, which can be set to automatic or manual. If manual, also set the cable delay.
3. Click **OK**.

Add Extension Numbers

At the **Add Extension Numbers** screen is where you define one or more cordless phones in the CPU or CPU2 databases.

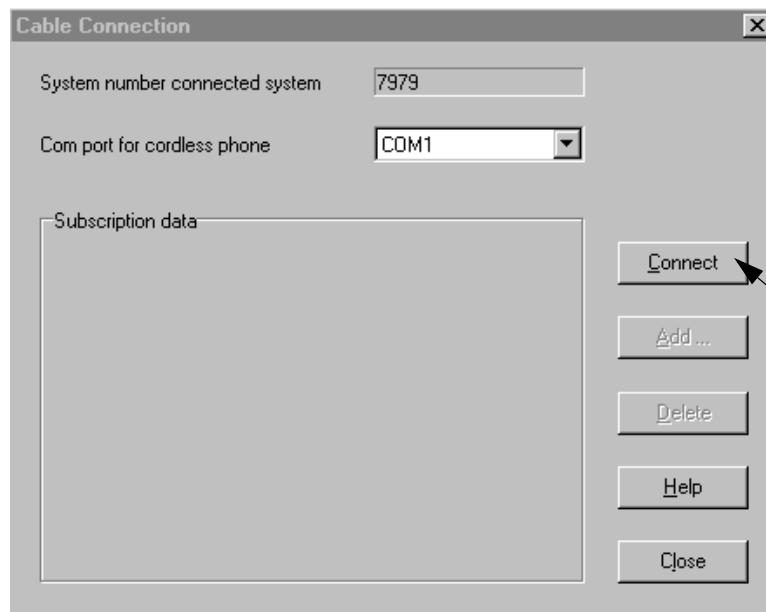
1. Open the Add Extension Number window by choosing menu **Cordless Phones-Add Extension Number**.
2. At the **Add Extension Number Screen**, define the following:
 - Extension Number:
 - Select the first radial button in the Extension number box if adding a single extension number.
 - Select the second radial button in the Extension number box if adding range of extension numbers.
 - Line Connection:
 - Choose line connection board using the Board address pull down arrow.
 - Choose an available circuit number using the Circuit number pull down arrow.
2. Click **OK**.

The screenshot shows a dialog box titled "Add Extension Number". It has a close button (X) in the top right corner. The dialog is divided into two main sections. The first section, "Extension number", contains two radio buttons. The first radio button, labeled "Add one", is selected and is followed by a text input field. The second radio button, labeled "Add range from", is unselected and is followed by a text input field, the text "up to", and another text input field. The second section, "Line connection", contains two pull-down menus. The first is labeled "Board address" and shows the value "1 40 1". The second is labeled "Circuit number" and shows the value "1". At the bottom right of the dialog, there are three buttons: "OK", "Cancel", and "Help". An arrow points to the "OK" button.

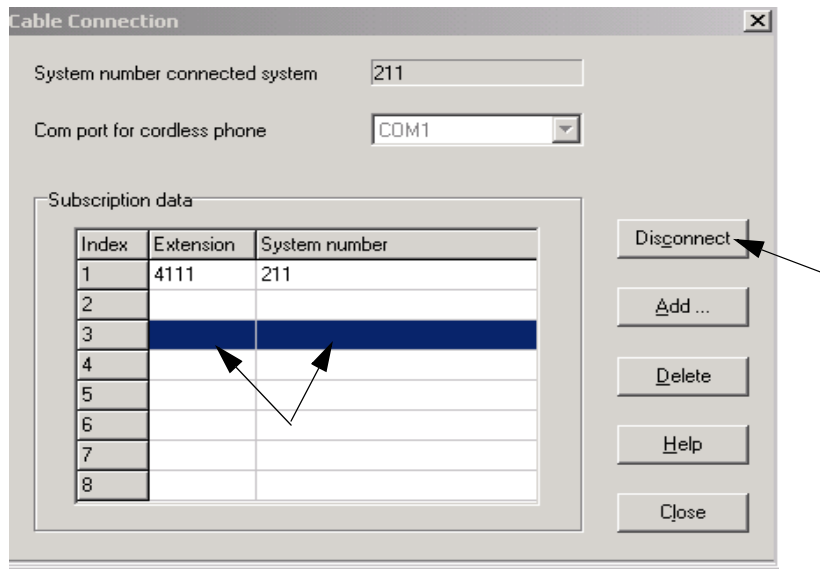
Program Portable Phones

Before a portable phone can be used in a system, the portable phone must be programmed to that system. To connect the portable phone to the computer, you will need a programming kit, which includes a programmer, programming cable, and a 25-to-9 pin converter. See the CSMW help files for detailed information.

1. Open the Cable Connection window by choosing menu **Cordless Phone-Connect Cable**.
2. At the **Cable Connection** screen:
 - Select the appropriate com port from the drop down menu.
Note: Make sure the com port setting matches the port on the PC that is connected to the portable phone.
3. Click **Connect**.



4. The Subscription data area shows the 8 indices in the phone.
5. If the Extension and System number fields have data in them, an extension has already been programmed to that index. Highlight the blank area of an index row and click **Add**.



Note: If all indices are in use you must first delete an existing subscription before you can add a new one. To do so, select an entry and click **Delete**.

6. The **Select Extension Number** window appears. Choose an available extension number using the pull down arrow and click **Subscribe**.



Activate Base Station with UTAM

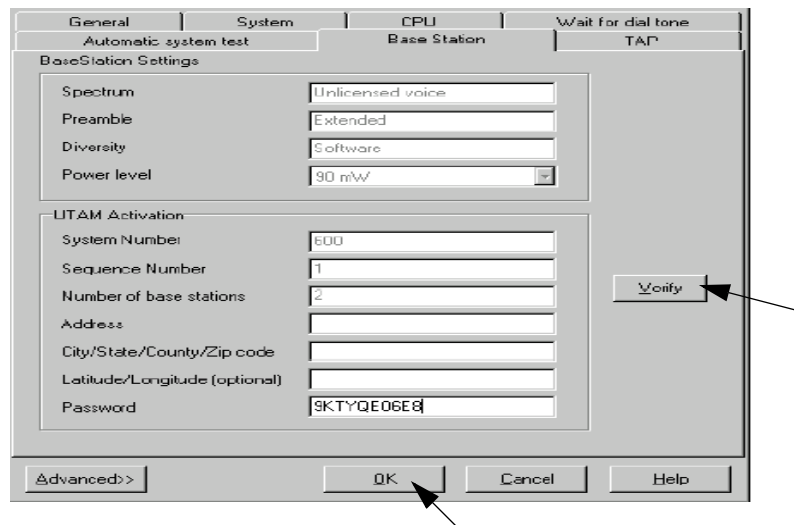
The DCT1900 system operates in the unlicensed spectrum. The DCT1900 system activation process is designed to comply with UTAM, Inc. requirements. A UTAM **password** which can be acquired from Ascom Wireless is required to activate the system.

Note: UTAM Activation fields are only available after a system has been initialized and base stations are added. It is recommended that all base stations are added to the system before entering a UTAM password.

1. On the **System Configuration - Base Station** tab, fill in the following fields of the UTAM activation section:
 - Address
 - City/State/Country/Zip Code
 - Latitude/Longitude(optional)
 - Password

Note: The system automatically populate System Number, Sequence Number and Number of base stations.

2. Click **Verify**.



3. If password is accepted, a confirmation screen will appear.
4. Click **OK**.



5. Click **OK** to exit **System-Configuration** menu.