



CSP1001 Radio Interoperability Unit Installation Guide

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SMARTMSG

Secure Notification Software

Additional SmartMsg documentation is available through the Codespear website.

<http://www.codespear.com/helpcentral.asp>

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Send e-mails regarding any of the above-mentioned problems or any other grievances regarding any documentation to:

SmartMsgdocumentation@Codespear.com

Codespear appreciates all comments regarding any issues in order to ensure the accuracy, consistency and simplicity of all of our documentation.

Please note: This e-mail address is for comments only. If you have technical questions please contact Technical Support by visiting our website.



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Overview

The Codespear CSP1001 Radio Interoperability Unit (RIU) is an extremely lightweight, highly mobile device used for introducing radio systems and other push-to-talk devices into a SmartMsg system.

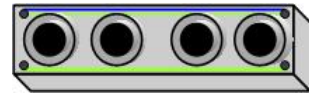
The integration of these devices into a SmartMsg system provides the means to:

- bridge communications across various radio systems consisting of different types, bands and frequencies
- extend the range of radio systems by providing repeater capabilities
- generate interoperability between two-way radio devices and other communication devices, such as phones, computers and PDAs

Equipment Needed

Codespear CSP1001 Radio Interoperability Unit (RIU)

CSP1001 is the model name of the RIU. The two terms are used interchangeably within this document. Up to 2 RIUs can run on one computer.



Radio(s)

(A radio is needed for each frequency/Channel that will be needed.)

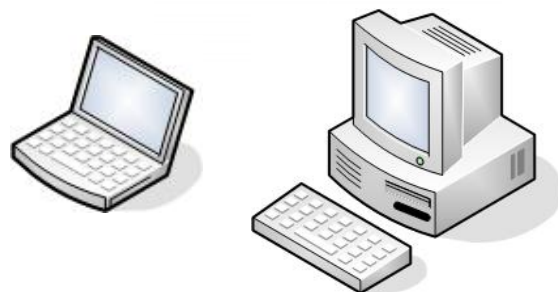


Codespear Smart Cables (Radio Cables)

A cable is needed for each radio type (brand/model) that will be plugged into the Radio Interoperability Unit (RIU).



A **Windows Computer** to run the SmartMsg Radio Client software and a computer to run the SmartMsg Server software. The same computer can be used for both. The computer(s) can be server, desktop or laptop type computer.



USB Cable

Specifically, a USB 2.0 Cable, or “Hi-Speed USB” cable is needed. (Cable is provided with the CSP1001 unit.) The USB connected to the RIU is permitted to plug into a USB hub, but if there is more than 1 RIU plugged into the hub, the hub must be powered.

Other Requirements

- Administrator-level access to an Installed SmartMsg Administrator Tool
 - SmartMsg Global Administrator level access is needed to enter the license key for the Radio Client
- Windows Administrator access (to install drivers) on the computer where the installation occurs
- Functional USB port (on computer that will run the SmartMsg Radio Client software)

This document is intended as a guide for complete installation of the CSP1001 Radio Interoperability Unit (RIU), including:

- Licensing the Radio Client
- Installation/Activation of the Radio Client Module (on SmartMsg Server)
- Installation of the Radio Client software and necessary CSP1001 USB drivers

Terminology

Radio Client – the software application that is used to set up radio interoperability in SmartMsg.

Radio Client Module – the server-side portion of the radio client that interprets commands from the radio client software application. The Radio Client Module is accessed from the SmartMsg Administrator Tool by a Global Administrator or the user Admin.

CSP1001 RIU – the brand name for the Radio Interoperability Unit. The RIU is the hardware box with 4 ports for radio cables and that connects to the computer via USB cable.

Docked Radio – this is the radio that is connected to the RIU using a Codespear Smart Cable.

Field Radio – this is the radio that is a partner to the Docked Radio. It may be a model similar to the Docked Radio, or a different model able to communicate to the Docked Radio over the same frequency/channel.

Channel – the band of frequencies through which radio audio is routed. There is often a setting or dial on the radio that allows the user to change the channel. Two radios must be on the same channel to communicate.


Installation Note

The instructions in this document must be followed in the order indicated. It is important that the CSP1001 RIU is NOT connected until so directed.

Licensing the Radio Client

The Radio Client module will not be available until a license key is entered. To enter a license key:

1. Obtain a license key from Codespear.
2. From the Administrator Tool, go to the Help menu and select Licensing. *Note: Must be a Global Administrator or logged in as user: Admin, in order to access Licensing.*
3. Enter in a license key and click on Add.

License Key: 

Summary:
User Licenses used: 14/100
Radio Client Licenses: 1/1

Keys:

Key	Valid Until	Value
SMKU8-XXXXX-XXXXX-XXXXX-XXXXX	12/31/2006	100 users.
9WCUV-XXXXX-XXXXX-XXXXX-XXXXX	12/31/2006	1 radio clients

Warning: This computer program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.

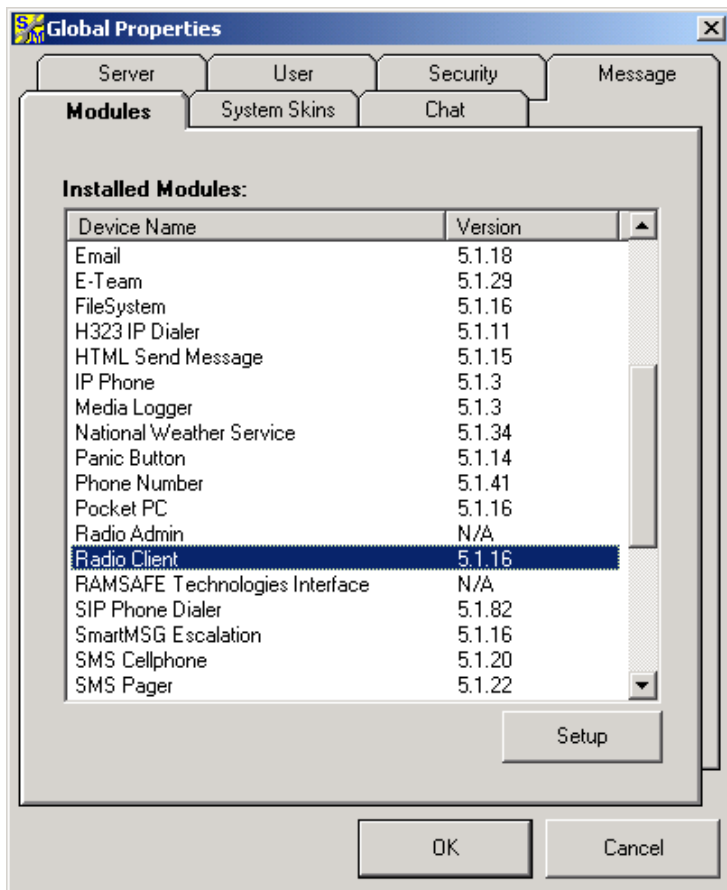
The license key will now be listed under Keys, and under Summary.

4. Click **OK**.

Installation/Activation of the Radio Client Module

In order to use a CSP1001 Radio Interoperability Unit (RIU), the SmartMsg server(s) must have the Radio Client Module installed and running. To determine if you have the Radio Client Module running on your system:

- 1) Login to a SmartMsg Administrator Tool as user Admin or as a Global Administrator.
- 2) Select **Global** from the top menu.
- 3) Select **Properties**.
- 4) Click the **Modules** tab. Scroll down to find the **Radio Client Module**.



If the Radio Client module does not appear in the modules list OR if it is labeled “N/A” under version – a server update must be performed in order to install the Radio Client Module. *The standard SmartMsg Server software installation does not include this module. The Radio Client (along with other optional software modules) is available via a SmartMsg software auto update package. If doing an auto update to get the Radio Client module, be sure to restart the SmartMsg Server Service after the module update. A Server Update Package may have already been provided to you along with instructions. Otherwise, contact Codespear Technical Support or your Codespear Project Manager to obtain an update package for your system.*

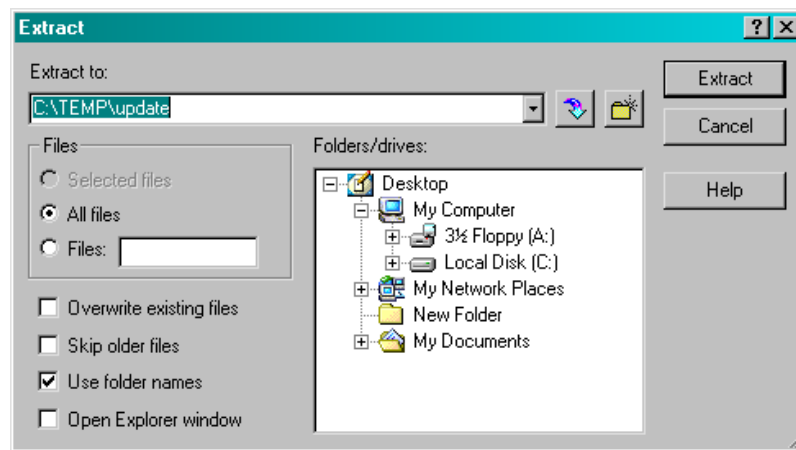
Important: DO NOT CONNECT THE CSP1001 RIU TO THE COMPUTER UNTIL THE POINT SPECIFIED IN THESE PROCEDURES.

Note: Installation of the SmartMsg Radio Client software and the CSP1001 device drivers requires administrative permissions on the computer. Once the software is fully installed, administrative permissions are not necessary to run the Radio Client application.

Step 1 – Unzip the install (If necessary)

If you have downloaded the file in zip format – you will need to extract the zip file first.

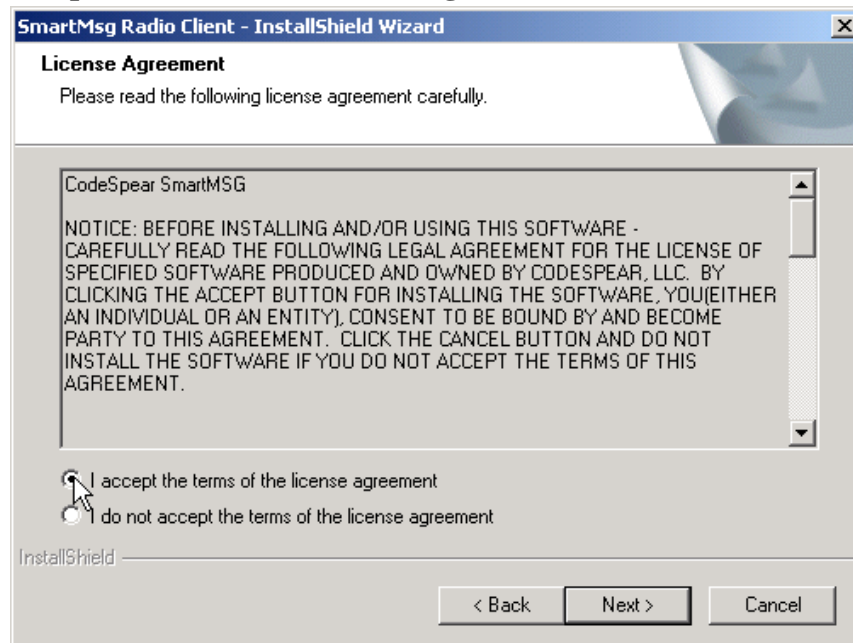
1. Open the zip file, and select all available files/folders within the zip file.
2. Extract the files to your desired folder location.



Step 2 – Run the InstallShield Wizard for the Radio Client Software

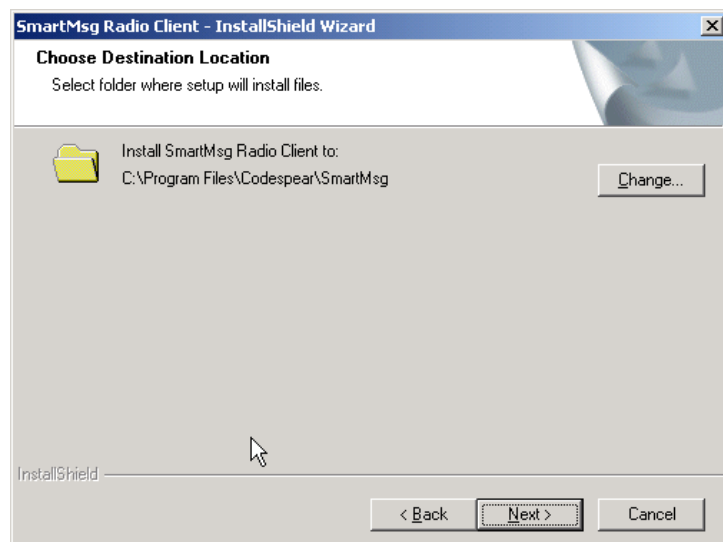
Once the software is downloaded and extracted to your desired location:

1. Run **RadioClientSetup.exe**. A Welcome screen will appear.
2. Click the **Next** button to continue.
3. Review the software license agreement. If you agree to the terms defined, Click on the option labeled **“I accept the terms of the license agreement.”** and click the **Next** button to continue.



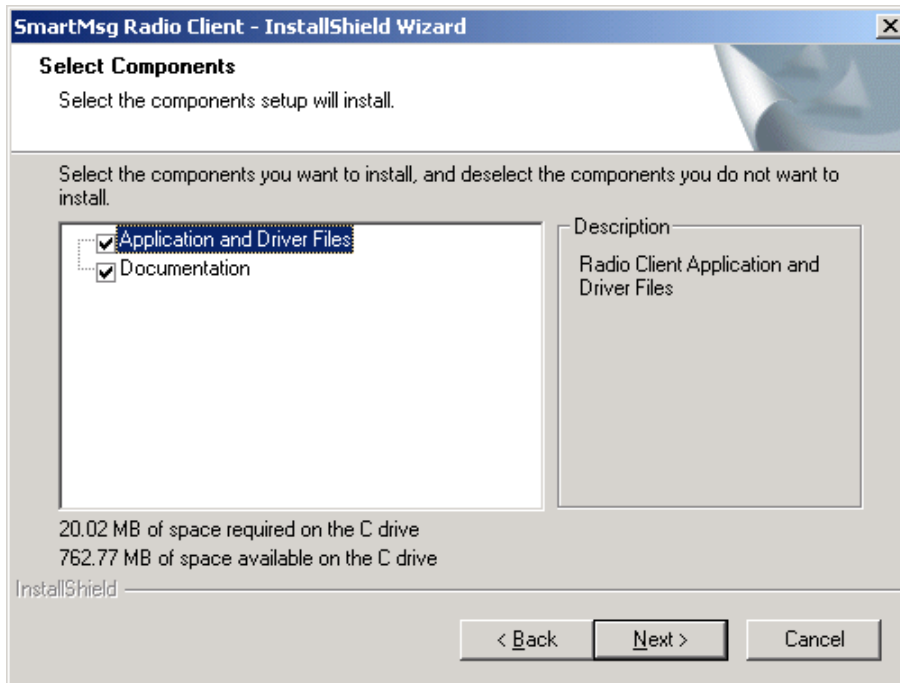
The default location in which the radio client software will be installed is: “C:\Program Files\Codespear\SmartMsg”. You may choose a different destination location for the software by clicking the **Change** button. *It is recommended that you install to this default location, if possible.*

4. Click **Next** to continue with the installation.

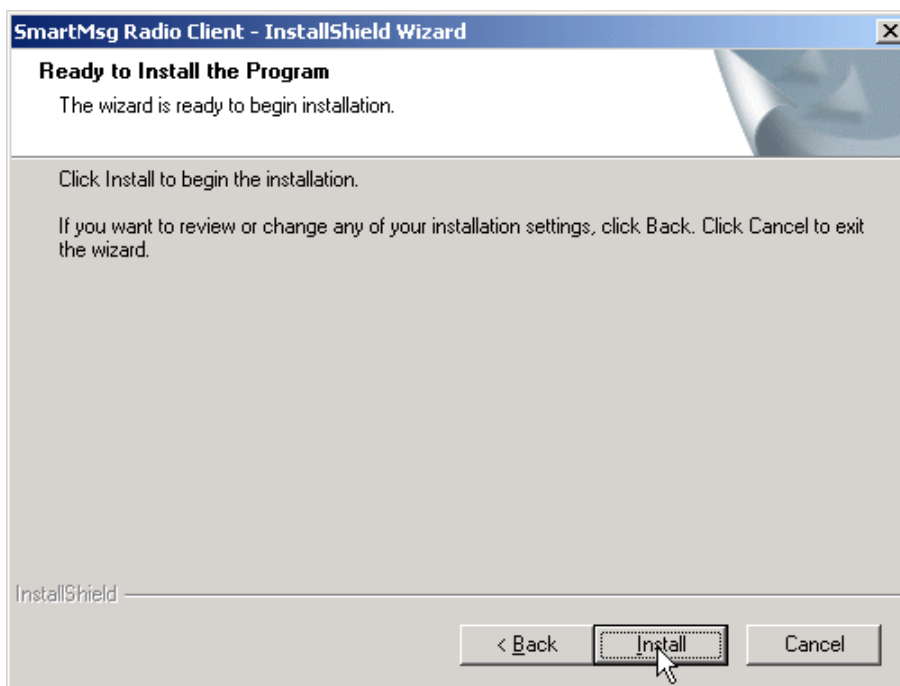


The component selection screen will appear. You can de-select the “Documentation” component, if desired. However, the “Application and Driver Files” component must be selected in order to install the Radio client software.

5. Click the **Next** button to continue.



6. Click the **Install** button to continue.

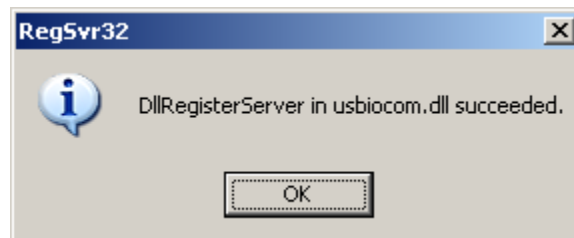


At this point files are transferred from the install package to the computer. The install will also initiate an install of the *Microsoft Text To Speech* software if it is not already installed on the computer.

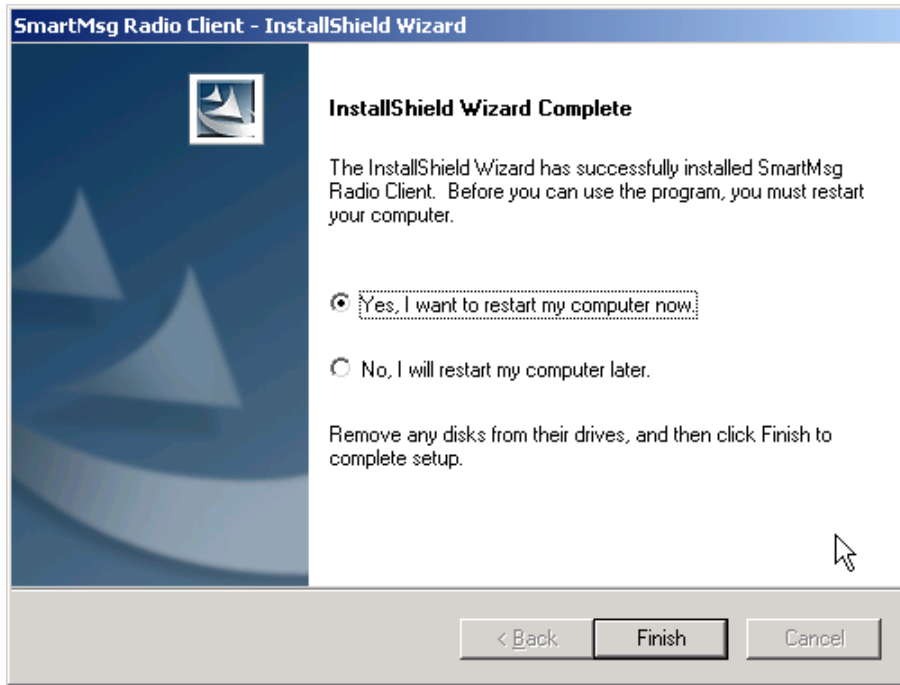
Note: You may see the following dialog if *Microsoft Text To Speech* software has already been installed on the computer. If this dialog appears, click **Yes** to continue with the *Radio Client* software installation.



A dialog will appear at the end of the installation to confirm registration of the *usbicom* driver file. Click **OK** to proceed and complete the installation.



When all file transfer operations are complete, you may be prompted to restart the computer. If it is not possible to restart at this time, click the option labeled “No, I will restart my computer later.” Click the **Finish** button. (If the final installation screen does not ask for a computer restart, a restart is not necessary.)



If prompted to restart the computer (as in the above screenshot) at the end of the installation:
Reboot the computer and then continue with the next procedures..

If you are unable to reboot at this time -

*Reboot the computer when possible and continue with the next steps after the computer has been restarted. You will not be able to continue with installation procedures until the computer is rebooted. **Note:** After reboot, login to Windows with the same user account to complete the installation process.*

If NOT prompted to restart the computer at the end of the installation:

Proceed with the instructions next. There is no need to reboot unless the installation has instructed you to do so.

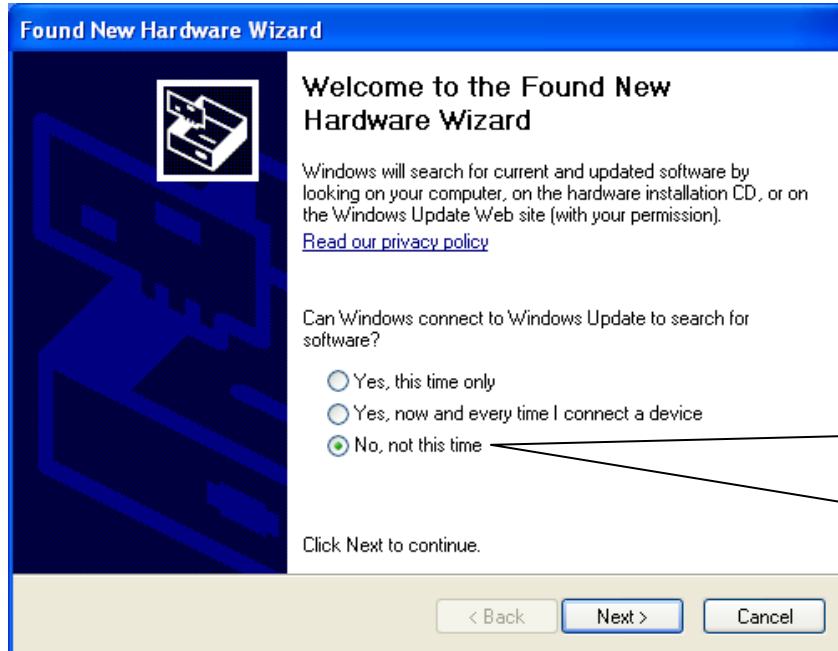
IMPORTANT: Do not start the SmartMsg Radio Client software until specified.

Step 3 – Install the USB Driver

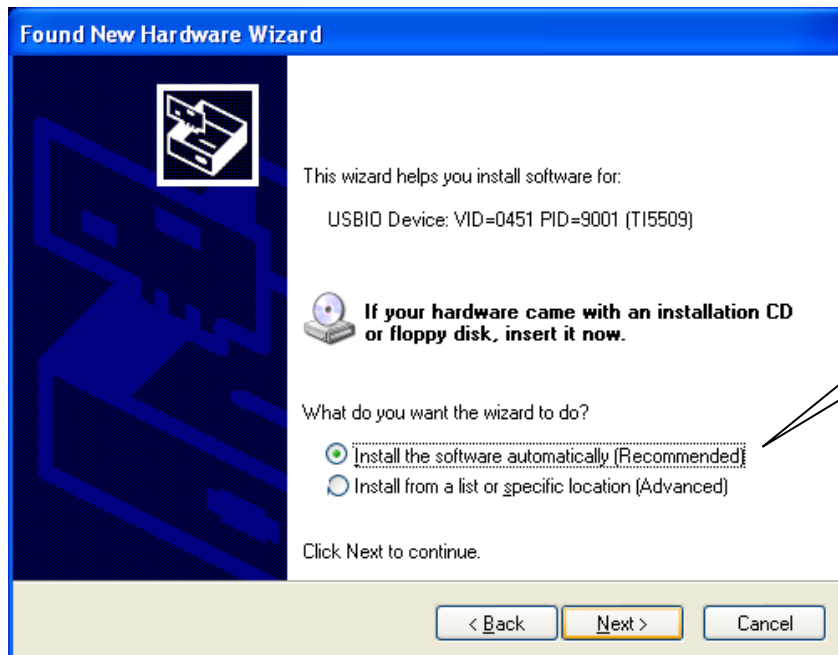
Connect the CSP1001 RIU to one of the computer’s USB ports. The Windows Hardware wizard will appear.

Follow the instructions below for completing the hardware wizard. (*NOTE: On Windows 2000 computers, the Windows Hardware Wizard will normally run automatically so you can skip to Step 4.*)

Windows Hardware Wizard Instructions (Windows XP/2003)

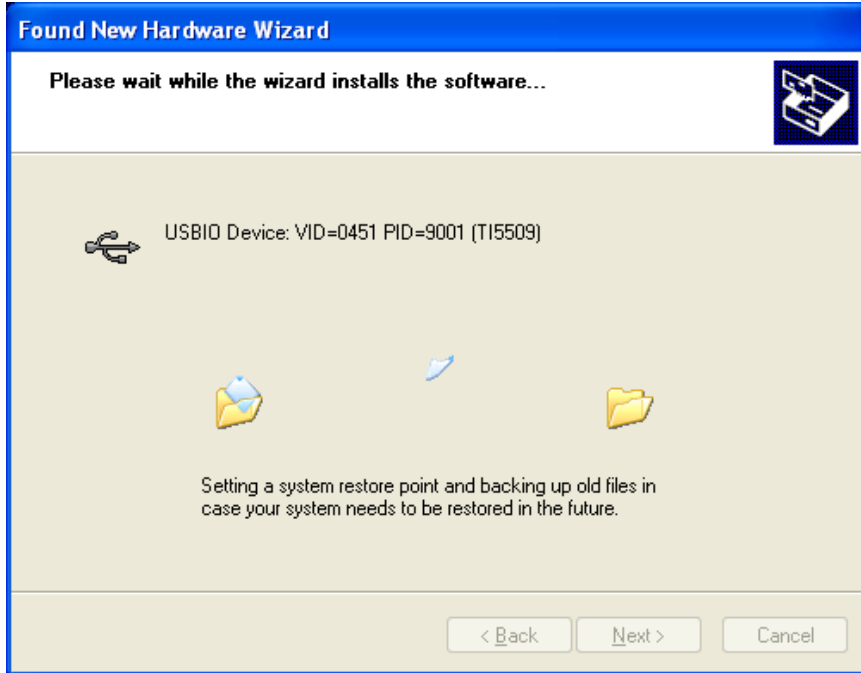


Select “**No, not at this time.**” And click the **Next** button. On some systems, this first dialog may not appear. Simply proceed to the next step.



Select “**Install the software automatically.**” And, click **Next**.

The wizard will install the driver software.



***Authenticode Message:** You may receive a message saying that the driver has not been signed with Authenticode technology. Click **Yes** to proceed.*

When the Hardware Wizard is complete, a screen similar to the following will appear:

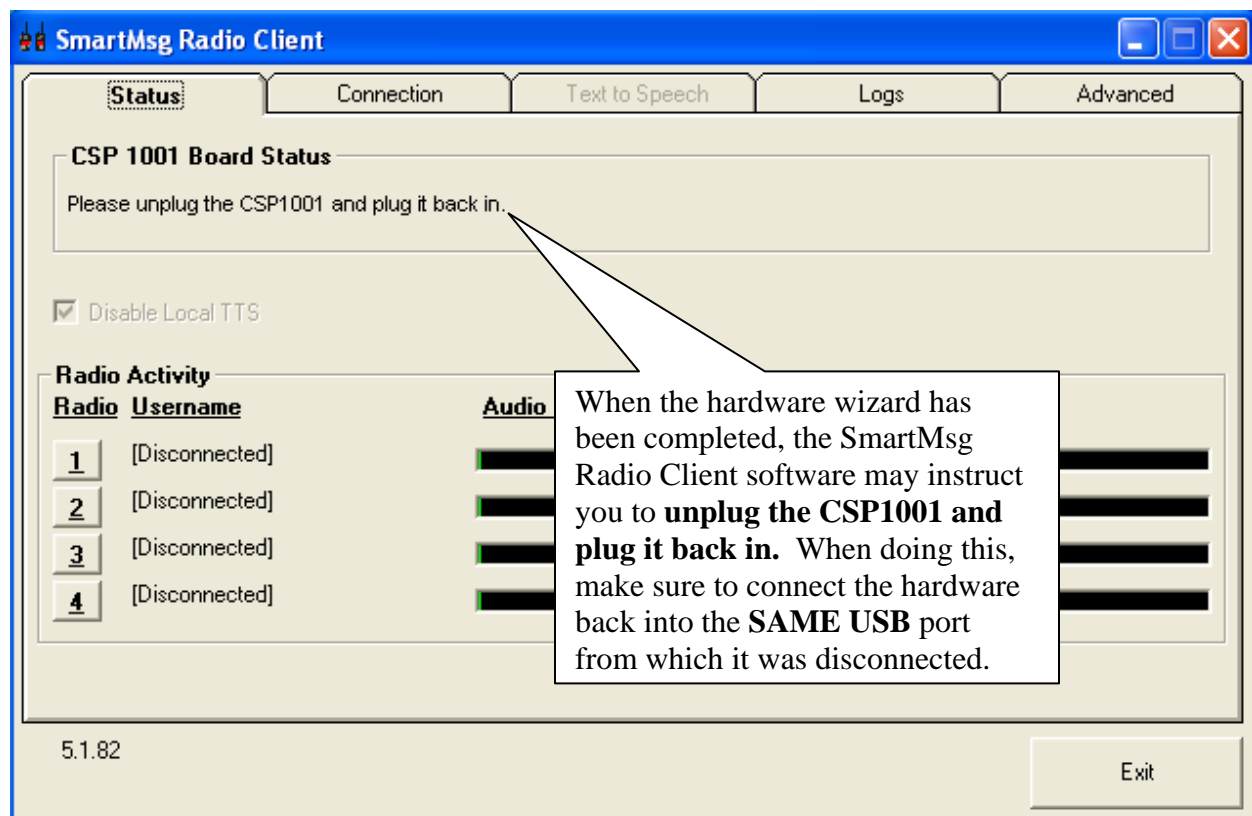


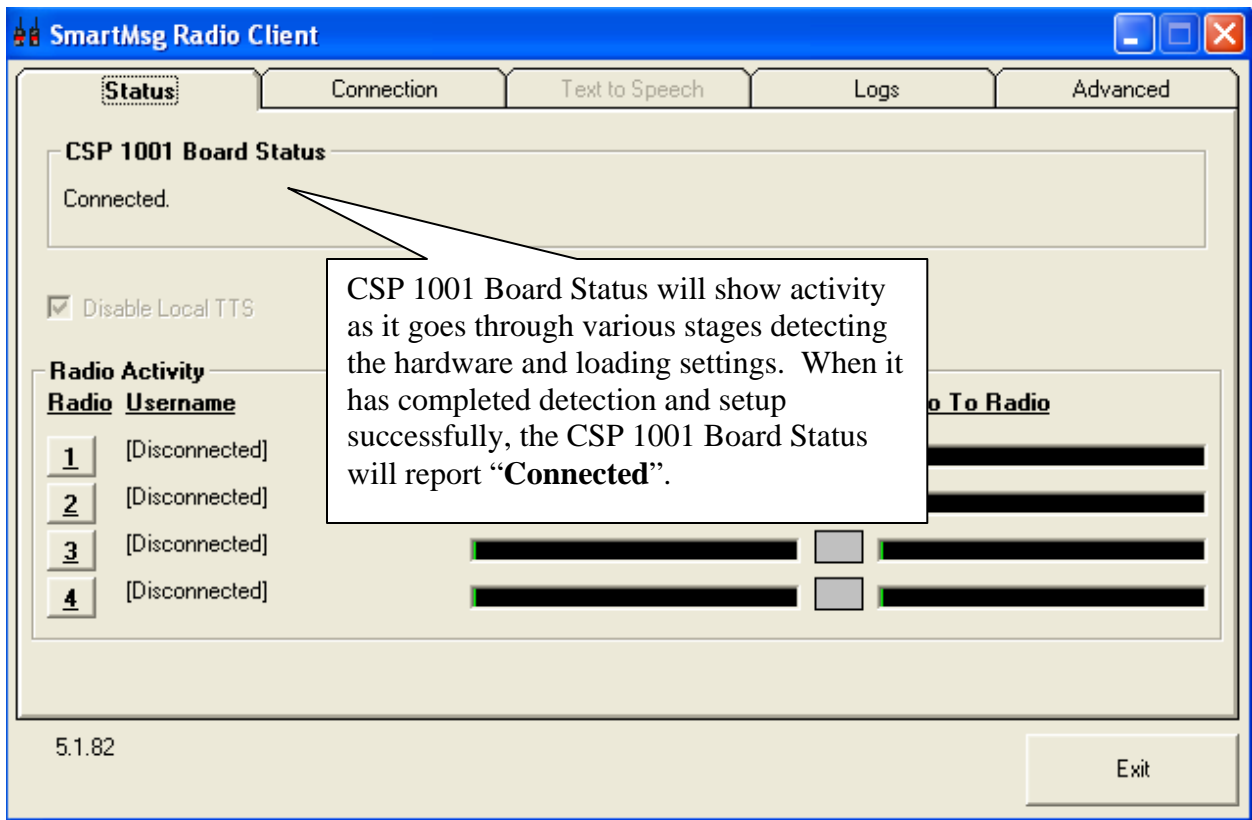
Step 4 - Start the SmartMsg Radio Client application (and install the second USB driver)

Go to Start->(All)Programs->Codespear->SmartMsg Radio Client

Physically unplug the RIU from the computer USB port and then plug back in to the same port. Continue to do so, until the Hardware Wizard opens automatically.

For Windows XP computers, follow the instructions detailed in *Step 3 - Install the USB Driver* to complete the Windows Hardware Wizard again for the second driver.





Step 5 – Repeat Driver installation for all necessary USB ports (optional)

Windows requires separate detection/installation for each USB port. Any time that the CSP1001 RIU is plugged into a specific USB port for the first time, Windows will detect new hardware and will require setup. Hence, ***Step 3 and Step 4*** will need to be repeated for each USB port on the computer that will be utilized for the CSP1001 RIU. It is recommended that these steps be repeated for ALL USB ports on the computer, so that the appliance can be plugged into and used on any of the computer's USB ports.

This concludes the procedure for how to install the Radio Client software and drivers. Proceed with the *SmartMsg Radio Client Setup Guide*.