UPDATING YOUR CODE PLUG

Why you need to update your code plug

Updating your code plug is as important as updating your firmware. If not done right, your radio will effectively be bricked. First, I need to give an explanation of why the code plug needs to be updated.

The Connect System series of radios has gone through many iterations over the years. The CS800 and CS750 have gone from 1,000 channels and 1,000 contacts to 2,000 channels and 65,000 contacts, to finally 4,000 channels and 130,000 contacts.

The CS800D started out with 2,000 channels and 65,000 contacts and then went to 4,000 and 130,000 contacts. The CS800D went from 16 channels per zone to a dynamically adjustable number of channels per zone where the range is from 1 channel per zone to over 999 channels per zone.

For those who know how to write software, the problem is obvious, for those that do not know how to write software, an explanation of memory maps is in order.

The parameters for the radio such as channels, contacts, zones, and almost everything else is stored in an 8-megabyte flash memory. The location of the data is defined by a memory map. A memory map is simply the location in memory where the parameters are stored.

Let's start out with a radio with 1,000 channels and 1,000 contacts. This configuration is prevalent for the early CS800 and CS750 radios as well as contemporary commercial radios. Let's assume each channel is defined by 64 bytes of memory and each contact is defined by 16 bytes of memory. A memory map of this radio is as follows:

```
Location 0 First Channel
.
.
Location 64,000 Last Channel
Location 64,001 First Contact
.
.
.
```

Location 80,000 Last Contact

Now let's take the current version of the radio where you have 4,000 channels and 130,000 contacts. A memory map if this radio is as follows:

Location 0	First Channel
•	
Location 256,000	Last Channel
Location 256,001	First Contact
•	
Location 2,336,000	Last Contact

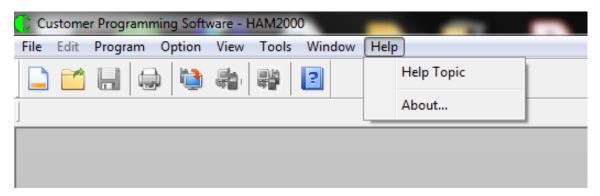
If you try to transfer the data from the first memory map to the second memory map without any compensation, then both the channels and the contacts will end up in the channels of the second memory map. The new radio with the larger memory map will see the first 1,000 channels correctly but everything after that will be garbage. You effectively bricked your radio if you do that. So hopefully you can see that you need a utility to transfer the data correctly between different versions of the radio. This utility exists in the Tools section of the CPS for the radio.

The first thing you need to do is get the correct version of your code plug. A correct version of the code plug is that version that was saved before you started trying to do any updating and was generated by the version of the CPS that was made for your firmware version of your radio.

If you read your old radio with a new version of the CPS, your code plug might be corrupted. That version cannot be converted with the method shown below.

Updating your code plug

Make sure you have the latest CPS. You can find the version in the Help pull down menu and click on "About".

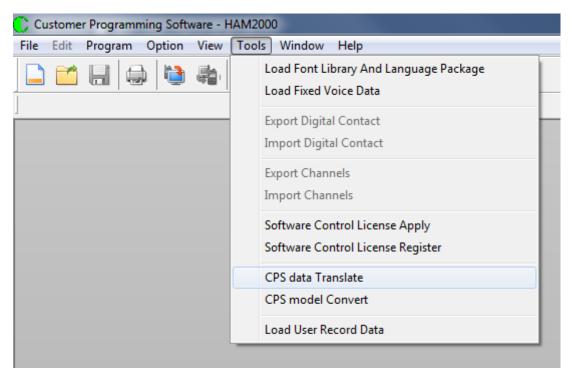


When you press the "About" entry you get:

g Software
Customer Programming Software - HAM2000 Release Version:R4.01.008
ect System Inc. Win10. OK

Make sure the Release Version is the one you want.

Now go to the Tools pulldown menu and press "CPS Data Translate".



When you press "CPS Data Translate" you get:

CPS data translate		x
	The latest version of radio data: D4.3.02	
Source file path		
Destination file path		
	Translate Cancel	

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Now press the button with the "..." next to the Source file path and you will get:

C Open				×
Look in: 🚺 Downloads 🔹	G 🤌 📂 🛄 🗸			
Name	Date modified	Туре	Size	
Connect Systems Radio Store - BigCommer Email Details_files opera autoupdate Pictures for website Dave_Wells.rdb K2DNR.rdb	6/12/2020 10:53 PM 4/12/2020 1:02 PM 5/8/2020 7:42 PM 6/24/2020 4:01 PM 6/28/2020 9:11 PM 6/6/2020 3:17 PM	File folder File folder File folder File folder RDB File RDB File	1,768 KB 421 KB	
ille name: Dave_Wells.rdb illes of type: Archive Fille(*.rdb) Aodel Name:				 Open Cancel
Frequency Range: DataBase Version: File Information:				

Locate your code plug you want to update and then double click on that file. You will then get:

CPS data translate				
	The latest version of radio data: D4.3.02			
Source file path	C:\Users\Jerry\Downloads\Dave_Wells.rdb			
Destination file path	C:\Users\Jerry\Downloads\Dave_Wells01.rdb			
Translate Cancel				

Notice the program automatically generates a destination file path and file name. The original file is not modified.

Press the "Translate" key and you will get:

CPS data translate	
CP	s 💌
S Desti	Have the latest version of the data, there is no need to upgrade!
	ОК

In this case the file was already updated and there was no need to do anything. However, if the file was not the latest, then you will get the following message:

CPS data translate	2
CPS Source file path C:\Users Destination file path C:\Users Translat OK	

You are now finished.

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