



# PowerSDR DataTransfer Utility Software User's Guide

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December 19, 2013*

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## Getting Started

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### Introduction

**PowerSDR-DataTransfer.exe** is an advanced utility to transfer data from one **PowerSDR™** setup database to another. Certain data in the **PowerSDR** setup database should *never* be transferred to another database by an import or copy operation. In some cases, the decision as to whether it is safe to transfer the data or not can be determined by which table the data is stored in. However, a couple of the tables have a mixture of data that is safe to transfer and data that is not. Unfortunately, this includes some of the more popular custom settings that are rather tedious to re-enter by hand when moving to a new database. The filter settings are just one example. **PowerSDR-DataTransfer.exe** intelligently decides which tables and which records within each table can be safely transferred based on information stored in a setup database, **PowerSDR-DataTransfer.xml**.

As newer versions of **PowerSDR** are released, all that is necessary is to update the **PowerSDR-DataTransfer.xml** file with the new data. If a new version of **PowerSDR** is released with new features, **PowerSDR-DataTransfer.exe** will still work, but the settings for the new features will not be transferred until an updated version of the **PowerSDR-DataTransfer.xml** file is installed.

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### System Requirements

**PowerSDR-DataTransfer.exe** works with the following operating systems:

- Windows XP SP3 (32-bit or 64-bit)
- Windows Vista (32-bit or 64-bit)
- Windows 7 (32-bit or 64-bit)
- Windows 8 (32-bit or 64-bit)

**PowerSDR-DataTransfer.exe** works with **PowerSDR™ v1.18.1** or later databases.

**PowerSDR-DataTransfer.exe** requires the **Microsoft .NET 3.51 Environment** or later.

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### Installation and Setup

Run the installation package file, **PowerSDR-DataTransferSetup.exe**. This will install **PowerSDR-DataTransfer.exe** and all required supporting files on your computer. The installer will suggest a default location for the program file. You may change the location or leave it at the default, it does not matter.

## PowerSDR-DataTransfer Operation

On startup and every 0.1 sec. while the program is running, **PowerSDR-DataTransfer.exe** checks to see if **PowerSDR** is running. If it is, then a warning message is displayed. You can either shut down **PowerSDR** and click on **Retry** or you can click on **Cancel** to terminate **PowerSDR-DataTransfer**.

*NOTE: For this feature to work, the name of the file that is running must be PowerSDR.exe. If you have renamed the PowerSDR.exe file then PowerSDR-DataTransfer will not be able to detect that PowerSDR is running. In this case, be certain to close any instances of PowerSDR that may be running before starting PowerSDR-DataTransfer. Do not start PowerSDR until after you have closed PowerSDR-DataTransfer.*

The first screen to be displayed is a warning screen reminding you to backup your data files before running any program which can modify your files. After you click on the **Okay** button, or after approximately 10 seconds, the main screen will be displayed.

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### Selecting the Source and Destination Databases

First you must select two databases:

- Source Database -- The database containing your custom settings.
- Destination Database -- The database that your custom settings will be transferred to.

**PowerSDR-DataTransfer** provides two different methods of selecting the databases, **standard** and **expert**.

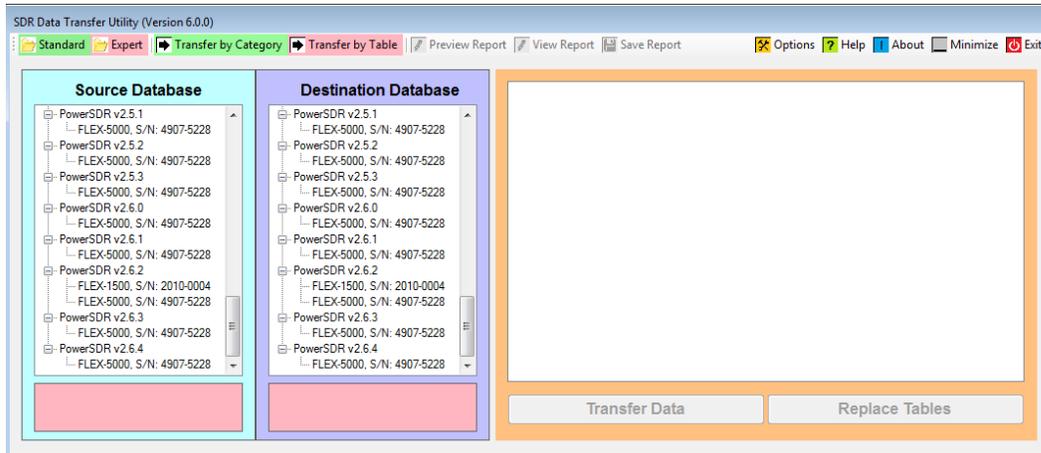
While the **standard** method is the easiest to use, the **expert** method is useful for selecting a copy of the database that is not stored in the normal PowerSDR database location -- for example, the database placed on the desktop when you perform a "Reset to Factory Defaults" operation in **PowerSDR**.

You may use either method to select either database. You do not have to use the same method for both databases.

Switch between the standard and expert methods by clicking on the "Standard" or "Expert" button on the toolbar.

The remainder of this has been purposely left blank

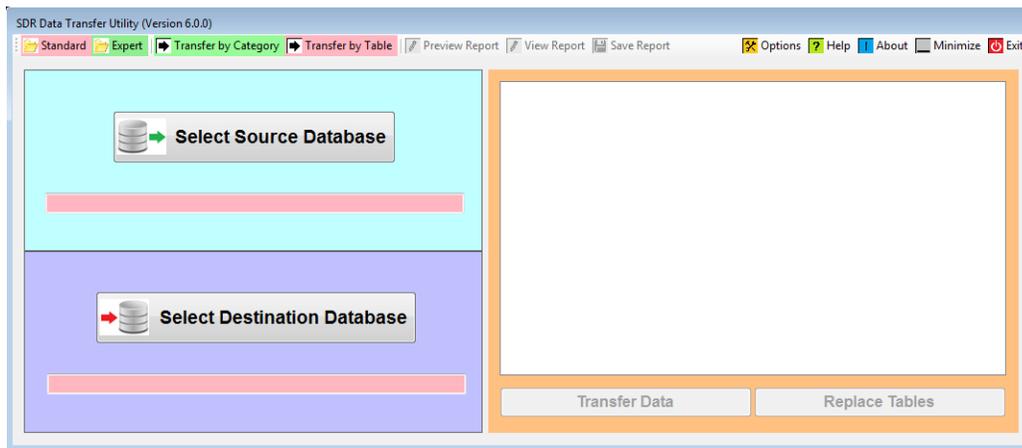
The standard method screen is shown in **Figure 1**.



**Figure 1 – Standard Method**

In the standard method, every **PowerSDR** database found on your computer is displayed in two lists sorted by **PowerSDR** version and by radio. Select a database by clicking on the desired radio under the desired **PowerSDR** version.

The expert method screen is shown in **Figure 2**.



**Figure 2 –Expert Method**

To select the source data base, click on the button labeled “Select Source Database”. This will display a standard Windows open file dialog. Use the dialog to browse to the desired source database file & click on “Open”. You may also type the database path & name in the box underneath the button.

Similarly, to select the destination data base, click on the button labeled “Select Destination Database” and use the open file dialog to select the desired destination database file or type the file name into the box.

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## Transferring Data to a Database

There are two methods of transferring data:

- Transfer by Category (default)
- Transfer by Table

The various settings are divided into several categories. All of the CW settings are in one category, all of the receive filter settings are in another category, etc. Most tables contain only data from a single category, but the "Options" and "State" tables contain a mixture of several different categories.

If you select "Transfer by Category", the program will scan in all tables looking for data in the selected category or categories and transfers those settings regardless of the table they are found in.

If you select "Transfer by Table", the program will transfer the settings in the selected table(s), regardless of category.

Except for a few cases, you should always "Transfer by Category".

Initially, all categories or tables are selected. You can change the selection by using a combination of the left mouse button and the control and shift keys.

- To select a single category or table, click on the desired item. This will select the desired item and deselect all others.
- To change the selected state of an item without affecting the other items, hold down the control (Ctrl) key while clicking on the item.
- To select a range of items, click on the first item in the range and then hold down the Shift key while clicking on the last item in the range.

When both files have been selected and one or more categories or tables have been selected, the **Transfer Data** button at the bottom of the window will be enabled. The **Replace Tables** button will be enabled only if you are transferring by tables.

Left-click on either the **Transfer Data** button or the **Replace Tables** button to transfer the data.

Right-click on either the **Transfer Data** button or the **Replace Tables** button to view a report of what data will be transferred. The transfer will not actually take place.

The **Transfer Data** button will cause the program to transfer the data in each category or table that you have selected to the destination database. The data will be transferred only if it is safe to transfer. If a record already exists in the destination table, its contents will be changed to match the record in the source table. If the record does not already exist, a new record will be added to the destination table. No records are deleted from the destination table.

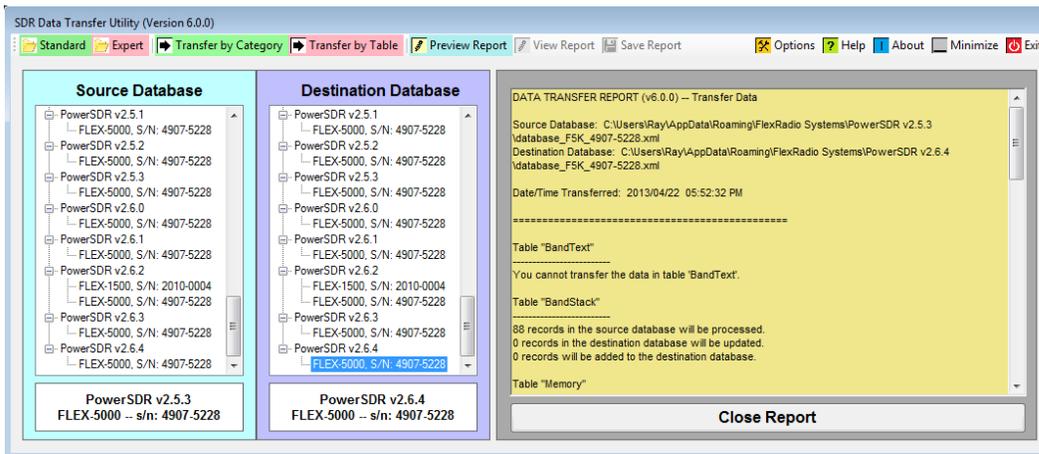
*NOTE: The records in the BandText table in the database should not be transferred. However, the BandText table can be replaced. The program blocks the BandText table so that the transfer data function will not work on it.*

The **Replace Tables** button works exactly like the **Transfer Data** button except that all data records are deleted from the destination table before transferring the data. This has the effect of completely replacing the destination table with the source table.

*NOTE: Certain records in some of the tables in the database must not be deleted. The program blocks those tables so that the replace function will not work on them, and displays a warning message stating which tables will not be replaced. View the report after transferring the data to see what tables were replaced and what were not. You can also view the report before transferring the data by right-clicking on the Replace Tables button.*

## Viewing Reports

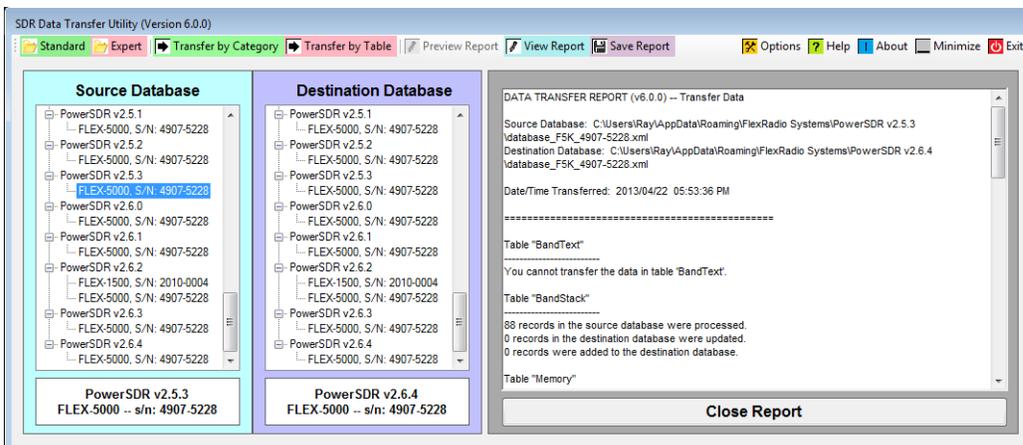
After you right-click on the **Transfer Data** button or right-click on the **Replace Tables** button, the **Preview Report** button on the toolbar will be enabled. Click on the **Preview Report** button to see a list of the tables and the number of records that will be transferred. The screen shown in **Figure 3** will be displayed. Click on the **Close Report** button to return to the normal display.



**Figure 3 – Preview Report Screen**

After the data has been transferred, the **View Report** button and the **Save Report** button will be enabled. Click on the **View Report** button to see a list of the tables and the number of records transferred. The screen shown in Figure 4 will be displayed.

If the data in any table is not transferred, the reason that the data could not be transferred will be listed. Click on the **Close Report** button to return to the normal display.



**Figure 4 – Report Screen**

Clicking on the **Save Report** button will allow you to save the report to a text file. A standard Windows save file dialog will be displayed. Browse to the desired directory, enter the desired file name, and click on "Save".

## Setting Program Options

Clicking on the Options button on the toolbar will display the form shown in **Figure 5**. From this form, you can set the program options and check for program and setup data updates.

The screenshot shows a dialog box titled "SDRDataTransfer Options". It is divided into three main sections: "Reports", "State Data", and "Updates".

- Reports:** Contains a checkbox labeled "Detailed Reports".
- State Data:** Contains a checkbox labeled "Enable State Data Transfer".
- Updates:** Contains a checkbox labeled "Automatically Check for Updates" and two buttons: "Update Program" and "Update Setup Data".

Below these sections is a "Setup Data URL" field. A yellow warning box is overlaid on the field with the text: "Do NOT change this value unless instructed to do so by FlexRadio Systems personnel!". The URL field contains the text: "http://www.flexradio.com/Data/Doc/".

At the bottom of the dialog are two buttons: "Save Changes" and "Discard Changes".

**Figure 5 – Options Form**

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### Reports

Checking the **Detailed Reports** box will increase the amount of detail included in the reports.

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### State Data

The state data consist of settings that store the current operating status of the radio (VFO frequency, mode, filter, etc.) These settings continually change as you use your radio. Consequently, there is little value in transferring these settings from one database to another. By default, the state data is not transferred. Checking the **Enable State Data Transfer** box will cause the state data settings to be transferred along with the rest of your settings.

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## Updates

**PowerSDR-DataTransfer** has the capability of checking the author's website for updates to the program or to the setup data. Checking the **Automatically Check for Updates** box will cause the program to check for updates every time the program is started.

You can manually check for updates using the **Update Program** button and the **Update Setup Data** button.

Clicking on the **Update Program** button will check the website for a newer version of the program. If a newer version is found, a dialog box will be displayed asking if you want to update the program. If you click on "Yes", the new installation package will be downloaded and another dialog will open asking if you want to install the new version. If you click on "Yes", **PowerSDR-DataTransfer** will shut down and the new installation package will be started. This feature requires an active internet connection. Make certain that you are connected to the internet before trying to update the setup data.

Clicking on the **Update Setup Data** button will check the website for a newer version of the setup data. If a newer version is found, a dialog box will be displayed asking if you want to update the setup data. If you click on "Yes", the new setup data will be downloaded & loaded.

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## Setup Data URL

This setting determines where **PowerSDR-DataTransfer** looks on the web for program & setup data updates.

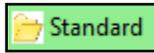
*Do not change this setting unless explicitly instructed to do so by FlexRadio Systems technical support*

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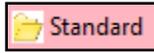
## Toolbar Buttons

The toolbar contains the following buttons (left-to-right):

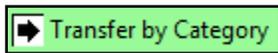
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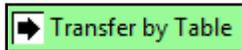
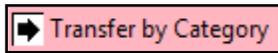
Clicking on this button will select the standard method of selecting databases.



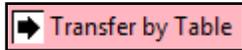
Clicking on this button will select the expert method of selecting databases.



Clicking on this button cause the settings to be transferred by category.



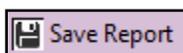
Clicking on this button cause the settings to be transferred by data table.



Clicking on this button will display the preview report.



Clicking on this button will display the transfer report.



Clicking on this button allows you to save the transfer report to a text file.



Clicking on this button displays a form where you can set the program options, manually update the program, or manually update the setup data.



Clicking on this button will open a window that displays this document.

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Clicking on this button will open a window that displays basic information about the program.



Clicking on this button will minimize the main window.



Clicking on this button will close the program.

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## Setup Data

As new features are added to **PowerSDR**, the setup database used by **PowerSDR-DataTransfer** may not support the added features. If a new feature required the addition of a new control (button, checkbox, combo box, track bar, etc.) to one of the PowerSDR screens, then the setting of that control will not be transferred. First, it must be added to the **PowerSDR-DataTransfer** setup database.

**WARNING:** *Some of the records in the **PowerSDR-DataTransfer** setup database use special encoding techniques. Therefore, modifying the setup database manually is **NOT** recommended. Attempting to do so may cause data to be transferred that is not safe to transfer. This may possibly result in damage to your radio. The **only** supported methods of updating the setup data is using the built-in facility for automatically updating the database from the internet (preferred) or by replacing the setup database file with a new copy provided on the FlexRadio Systems website. FlexRadio Systems, will not be liable for any damages, direct or indirect, resulting from an attempt to manually update the data in the **PowerSDR-DataTransfer** setup database.*

FlexRadio Systems will make every attempt to provide updated setup data on his website in a timely manner. Normally, a new setup data file will be available within a day or two after any new released version of **PowerSDR** is announced by FlexRadio Systems.

## Revision History

v1.0.0 – November 23, 2013:

Initial Release of PowerSDR-DataTransfer.

v1.0.1 – December 18, 2013:

Fixed a defect that would cause the PowerSDR-DataTransfer setup file to become corrupted if the program was opened at the same time PowerSDR was running.

v1.0.2 – December 19, 2013:

Fixed a defect that would cause the PowerSDR-DataTransfer setup file to be over written with an incorrect URL for data file and program updates.

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Revised: November 23, 2013

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