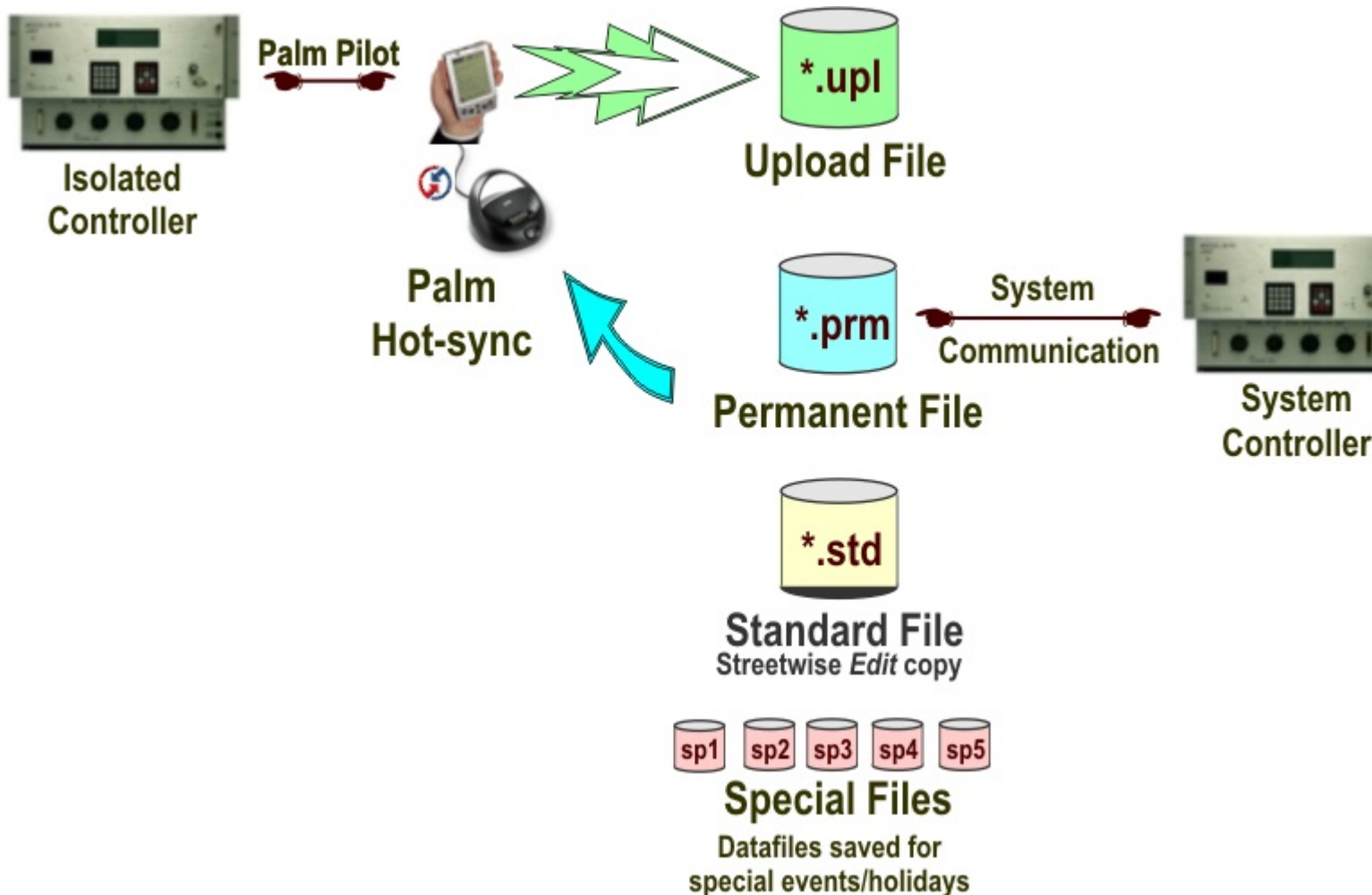


TecNote 3020 - Understanding the StreetWise File System

StreetWise maintains separate copies of the controller database in the server directory /nazserv/data. This *TecNote* explains the purpose of each file and how StreetWise maintains the file system and interfaces with the Palm handheld.

The key to understanding the StreetWise file system is how the system protects the *Permanent File* (last successful download through the communication system). The system performs a verify by uploading the controller to the *Upload File* and comparing the upload with the *Permanent File*. The verify procedure is used to prevent edit changes at central from being copied over valid changes made in the field through the keyboard.



Upload File

StreetWise saves a copy of the controller database uploaded by the Palm handheld or the Streetwise system to the *Upload File*. A separate *Upload File* for each controller is stored in the /nazserv/data directory on the server with a **.upl** file extension.

The *Permanent* and *Standard Files* are protected from all field uploads and from the Palm handheld hot-sync. Therefore, the user is required to manually copy the *Upload File* to either *Standard* or *Permanent* to commit any changes uploaded through the system.

Permanent File

StreetWise saves a copy of the last successful download to the *Permanent File* to maintain an accurate copy of each controller database in the field. A separate *Permanent File* for each controller is stored in the /nazserv/data directory on the server with a [.prm](#) file extension.

The *Permanent File* is transferred to the Palm handheld during a hot-sync. This insures that the Palm handheld carries the last successful download to the field.

Standard File

Streetwise provides an edit copy of the controller database called the *Standard File*. A separate *Standard File* for each controller is stored in the /nazserv/data directory on the server with a [.std](#) file extension.

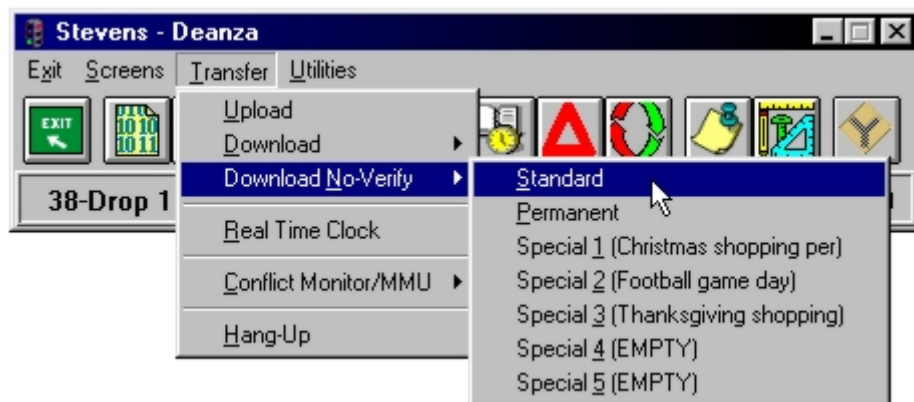
The user edits the *Standard File* and downloads the edited database to the controller. If the download is successful, the StreetWise system will automatically copy the *Standard File* to the *Permanent File*. Therefore, the system always maintains a copy of the downloaded database in the *Permanent File*.

Special Files

Special Files are copies of the controller database saved for some future purpose. *Special Files* for each controller are stored in /nazserv/data on the server with an [.sp1](#), [.sp2](#), [.sp3](#), [.sp4](#) or [.sp5](#) file extension.

Special Files can also be named with descriptive titles such as "Christmas shopping period", "football game day", etc. to make the file easy to identify later on when you want to download them to a controller. You can edit *Special Files* using Streetwise just like you edit the *Standard file*.

StreetWise Upload - Download Procedures



The StreetWise **Transfer** menu provides most communication tasks to the controllers in the field.

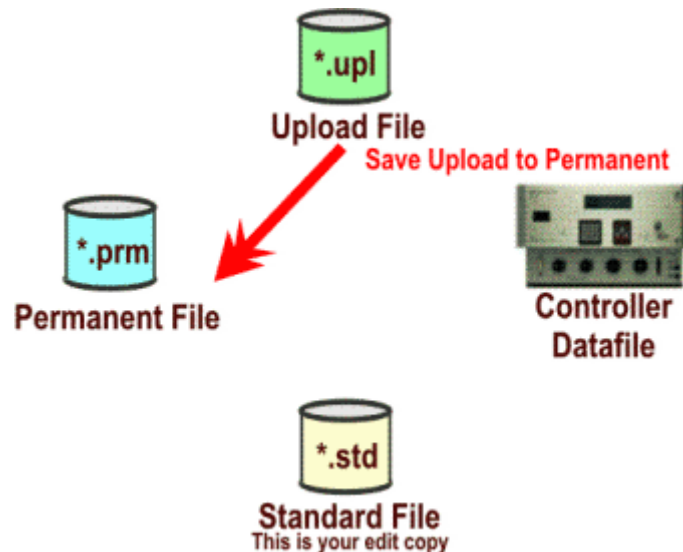
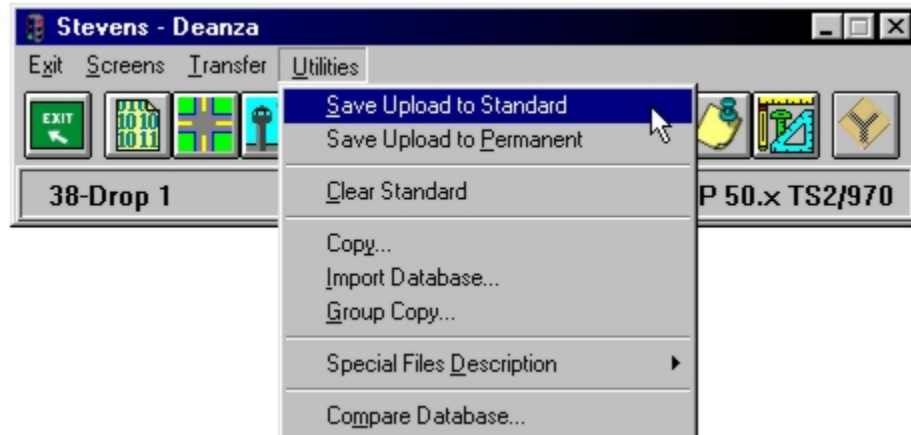
Upload Procedure

The "[Upload Procedure](#)" uploads the controller database from the field and stores a copy in the *Upload File*.

Click [here](#) to see how the controller database is uploaded from StreetWise.

The *Upload File* is only intended to be a temporary copy of the controller database. Therefore, the *Upload File* must be saved to the *Standard File* before it can be edited. The *Upload File* may also be saved to the *Permanent File* which becomes the permanent record of the controller database.

Keep in mind that you will not be able to edit an uploaded controller database until you manually save the *Upload File* to the *Standard File*.



Download Procedures

Two download procedures are provided depending on whether you wish to verify that the controller database matches the *Permanent File* before you overwrite it:

[Download-With-Verify](#) uploads the controller and compares the *Upload* and *Permanent File* to verify that they match before overwriting the controller with the download. If the *Upload* from the controller and the *Permanent File* differ, the procedure halts with the message, "Database Mismatch". At this point, the user can compare the *Upload* and *Permanent Files* to isolate the differences and decide whether to commit the download. For example, a field crew may have set min recalls in the field to correct a detector failure. [Download With Verify](#) can prevent overwriting these valid field changes from the central system.

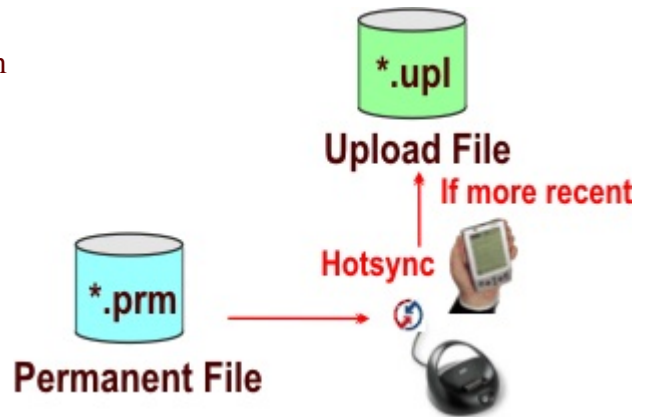
[Download-No-Verify](#) is used when you don't care if the controller database is different from the *Permanent File*. For example, after swapping out a controller in the field, you already know that the controller database and the *Permanent File* do not match. In this case, you can force the system to overwrite the controller database and save the download to the *Permanent File*.

Palm Hot-sync Procedures

The *StreetWise Partner* software installed on your system provides a hot-sync procedure to refresh the data in the Palm handheld with the StreetWise file system.

The hot-sync procedure performs 2 functions:

1. Save the handheld database to the *Upload File* if the data on the handheld is more current than the system
2. Copy the *Permanent File* from the system to the handheld



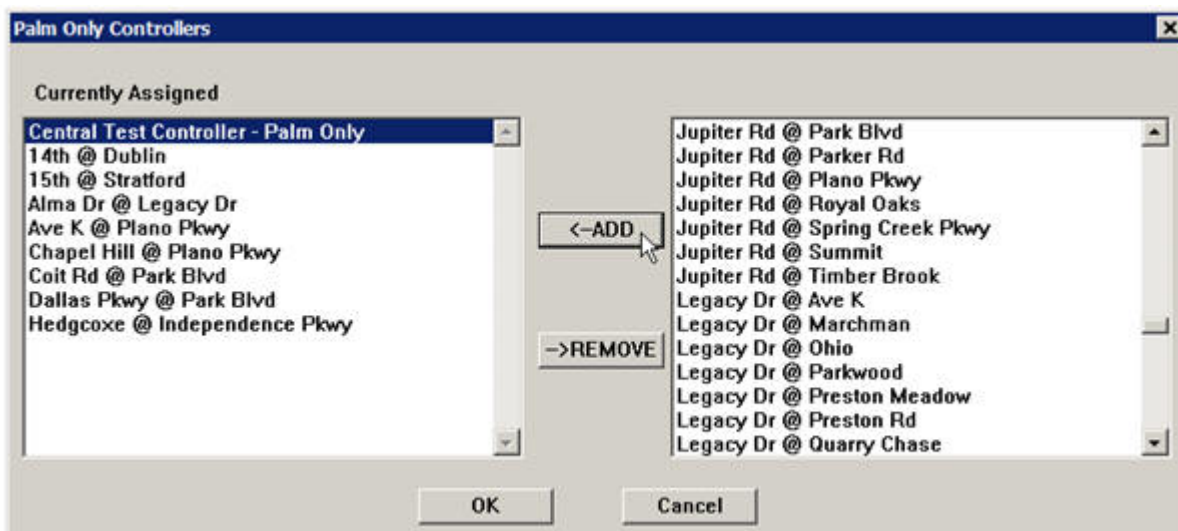
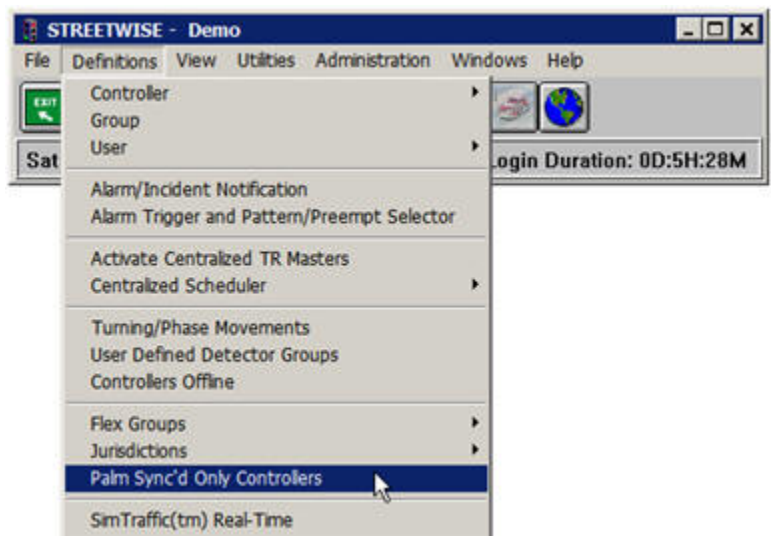
The user is responsible for manually copying the *Upload File* to the *Standard* and *Permanent Files* to save databases retrieved with the Palm as the permanent record in the system. Streetwise provides several features that simplify the process of maintaining databases for isolated controllers with the Palm device.

Assign Isolated Controllers As Hotsync-Only

Controllers may be assigned as *Hot-sync Only* from the *Definitions* pull-down menu as shown to the right.

The interface below allows the user to add and remove intersections in the system to the list of *Hot-sync Only* controllers.

Intersections that have communication with Streetwise from the system should not be assigned to this list even though Palm devices may also be used to supplement system communications. This assignment is intended for controllers that have no communication with the system.



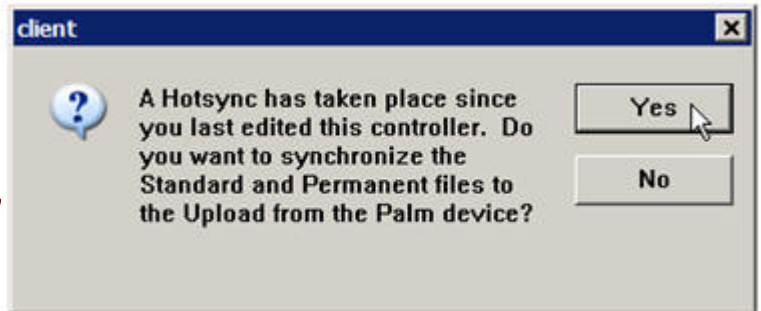
Maintaining Databases for Hot-sync Only Controllers

A *Hot-sync Only* toolbar is shown to the right. All selections requiring system communications have been greyed-out and are no longer accessible. Also notice that "[PALM SYNC]" appears in the bottom left corner.



A hot-sync will copy the database from the Palm handheld to the *Upload File* if the Palm data is more recent.

Streetwise detects that the *Upload File* is newer when you access the database for a *Hot-sync Only* controller and displays the message shown to the right.



If you select Yes, Streetwise will automatically copy the *Upload File* to the *Standard* and *Permanent Files* on your server and the database hot-synced from the Palm device will become your permanent copy. At this point, you will be able to edit a database retrieved from the field with the Palm device.

Streetwise provides a *Copy* utility under the *Utilities* pull-down menu of the intersection toolbar that can also be used to copy files from Upload to Standard, etc. However, the feature described above is intended to simplify database maintenance for isolated intersections that have *Hot-sync Only* access to the Streetwise server.

Summary

The following summarizes the key points and features provided by the Streetwise file system.

- The *Standard File* is the edit copy of the database and typically used to download changes to the field.
- The *Permanent File* is automatically saved when the *Standard File* is downloaded.
- The *Permanent File* can also be saved manually after a Palm hot-sync when Streetwise detects the Palm data is newer than the system.
- The *Permanent File* is used with [Download With Verify](#) to prevent overwriting edits made in the field.
- [Download No Verify](#) always overwrites the database in the controller and the *Permanent File*.