

# Operations Manual for StreetSync, a Module or ATMS

## Ver 5.x



522 Gillingham, Sugar Land Texas 77478  
Local Phone: (281) 240-7233  
US & International: (800) 953-7258  
Fax: (281) 240-7238

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# Introduction

## Purpose

The purpose of the ATMS StreetSync application (StreetSync) is to provide access to traffic controller units that are otherwise disconnected from the central system via a laptop.

## Product Scope

The product is an application to access the ATMS database and the traffic controllers in the field with minimal effort. The product will use standard protocols where possible to maximize accessibility to the existing ATMS software environment.

# Overall Description

## Product Perspective

The application will install on a variety of laptop devices running Windows 10 or higher using serial connectivity.

## Product Functions

The major functions in the app include:

- One-click application installation
- “Connection-less” Accessibility to ATMS
- List all available controllers
- View/Edit each available controller’s database
- Single action menu to provide access to all functions
- Supports Ethernet communication with v76 and newer controller types
- Upload database from a controller
- Download database to a controller
- Compare changed database parameters within a controller
- Retrieve most recent controller databases from the central system
- Transfer recent controller uploads to the central system
- Download current time-of-day to a controller
- Download firmware to Cubic | Trafficware NEMA Controllers Using Version 61.x software and MM516 MMU’s
- Create, save and access multiple cities and/or jurisdictions
- Supports Intersection Layout data syncing with ATMS
- Uses Intersection Layout as scan screens/scan elements – i.e. arrows to update phase status
- Displays detector actuations in scan screens
- Display active alarms in scan screens
- Extracts, Displays and Syncs with ATMS Vol/Occ data from controllers (v76 and newer controller types)
- Extracts, Displays and Syncs with ATMS Split History data from controllers (v76 and newer controller types)
- Extracts, Displays and Syncs with ATMS Local Events data from controllers (v76 and newer controller types)
- Extracts and Syncs with ATMS HiRes data from controllers (v76 and newer controller types)

## **Operating Environment**

The operating environment will be Windows 10 or higher, running on a variety of PC devices.

## **Traffic Controller Support**

The app will support both TS2, 2070, ATC and Commander traffic controllers containing Cubic | Trafficware software/firmware.

## **StreetSync Versions**

There are two versions of StreetSync available as described below. Please contact your Cubic | Trafficware representative for more information.

### **StreetSync Solo**

This version is used for standalone applications and does not interface directly with ATMS. It is intended for agencies that want to keep database information on isolated controllers.

### **StreetSync Enterprise**

This version is used with agencies that have ATMS and want a laptop interface for isolated controllers that are not communicating on their system.

## **Database structure**

The key to understanding the ATMS StreetSync file system is how the system protects the Permanent File (last successful download through the communication system). The system performs a verification 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.

### **Permanent File**

ATMS 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.

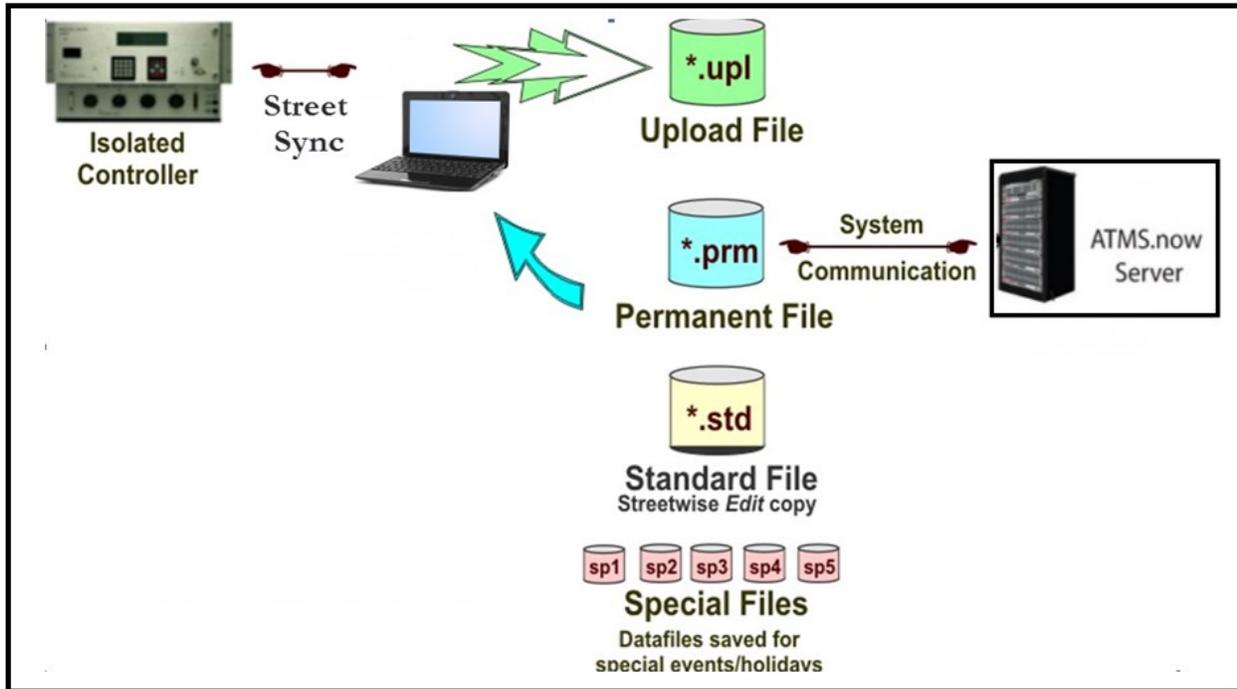
The Permanent File is transferred to StreetSync during the synchronization procedure. This insures that StreetSync carries the last successful download to the field.

The PC which contains StreetSync stores the .prm files in the directory /nazserv/data. All Data which is edited using StreetSync is saved on the /nazserv/data directory on the StreetSync PC. When editing is completed, the updated .prm file is then time stamped.

## Upload File

StreetSync saves a copy of the controller database uploaded by the system to the Upload File on the ATMS server after synchronization with the ATMS server. All Data which is edited using StreetSync is also stored in the Upload file on the ATMS server. When editing is completed, the file is then time stamped. A separate Upload File for each controller is stored in the /nazserv/data directory on the ATMS server with an .upl file extension.

Keep in mind that the Permanent and Standard Files are protected from all field uploads in ATMS and from the StreetSync synchronization procedure. Therefore, in ATMS the user is required to manually copy the Upload File to either the Standard or Permanent to commit any changes uploaded through the system.



# Installing StreetSync

**NOTE: To properly install StreetSync using the Microsoft toolset, you must connect your device to the Internet. (After installation, internet access is not necessary). If Internet access cannot be achieved, contact Cubic | Trafficware technical support for further installation instructions.**

**[Online.trafficware.com/release/StreetSync/](https://online.trafficware.com/release/StreetSync/)**

**Welcome to StreetSync page:** This is the directory that has all required steps that need to be installed and completed before StreetSync can be licensed.

## Welcome to StreetSync

**Documents:**

- [Release Notes](#)
- [User Guides](#)

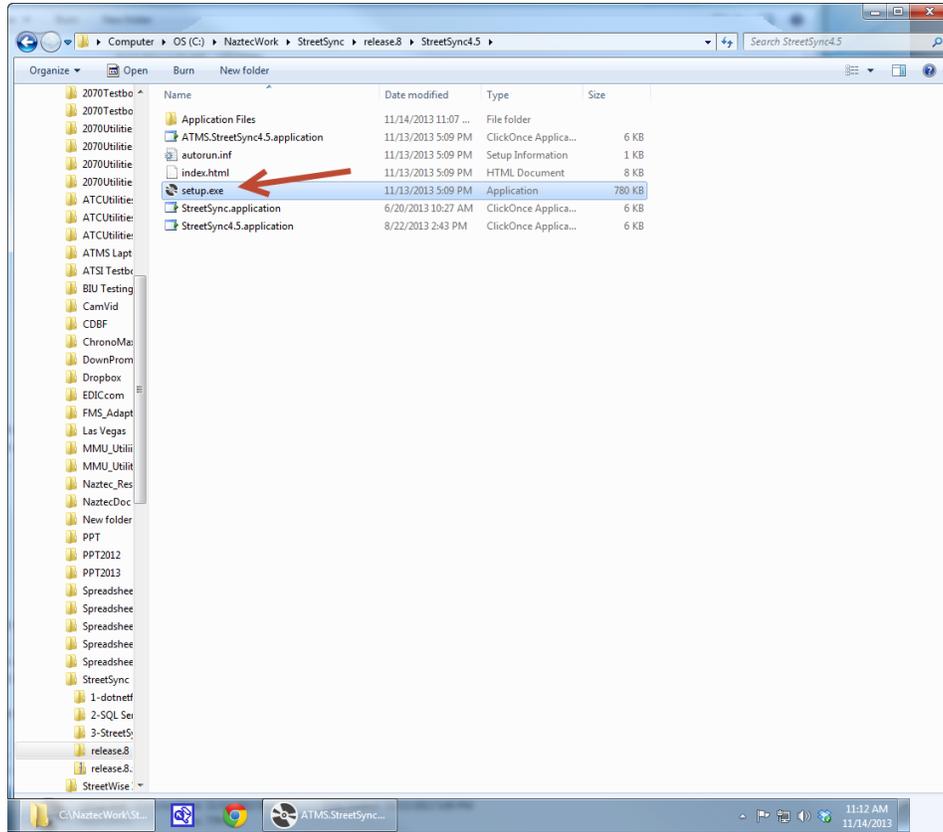
**Prerequisites:**

- [ndp48-x86-x64-allos-enu.exe](#): .Net Framework 4.8
- [SSCERuntime\\_x64-ENU.exe](#): SQL Server Compact SP1 for Windows 7/8/10 64-bit
- [SSCERuntime\\_x86-ENU.exe](#): SQL Server Compact SP1 for Windows 7/8/10 32-bit
- [vc\\_redist\\_x86.exe](#): Visual C++ Redistributable 2015-2019 32-bit
- Windows XP not supported

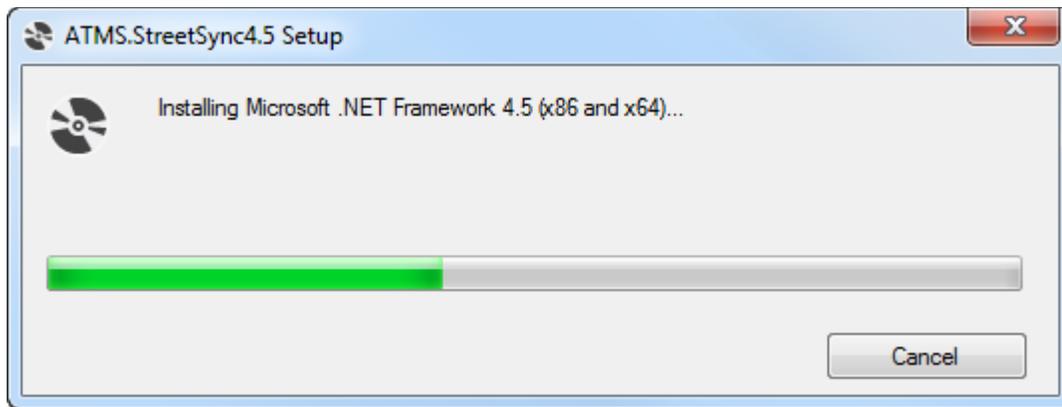
**Installation steps:**

- Install .Net Framework 4.8
- Install SQL Server Compact 4.0 SP1
- [Install StreetSync](#)
- The jurisdiction version requires ATMS server changes.
- Copy files SqlHandler.aspx and/or CnfgIndex.aspx into C:\Naztec\ATMSWS on the server machine. **Skip this step if not syncing with ATMS.**
  - StreetSync 2.x
    - [for ATMS.Now 2.3 or old](#)
    - [for ATMS.Now 2.4 or 2.5](#)
    - [for ATMS.Now 2.6 or newer](#)
  - StreetSync 3.0.x
    - [for ATMS.Now 2.6-2.12](#)

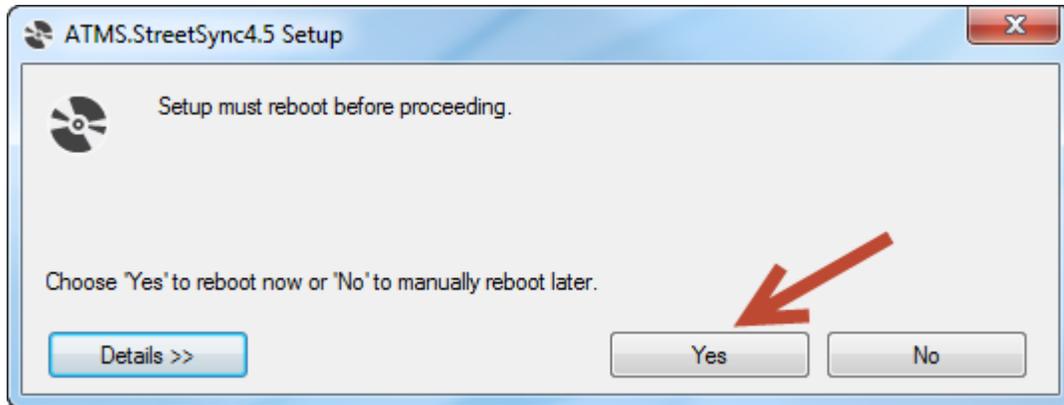
1. The CD or link provided by Cubic | Trafficware should automatically start the install of StreetSync. If not browse the CD and run the file labeled **setup.exe** to begin the installation.



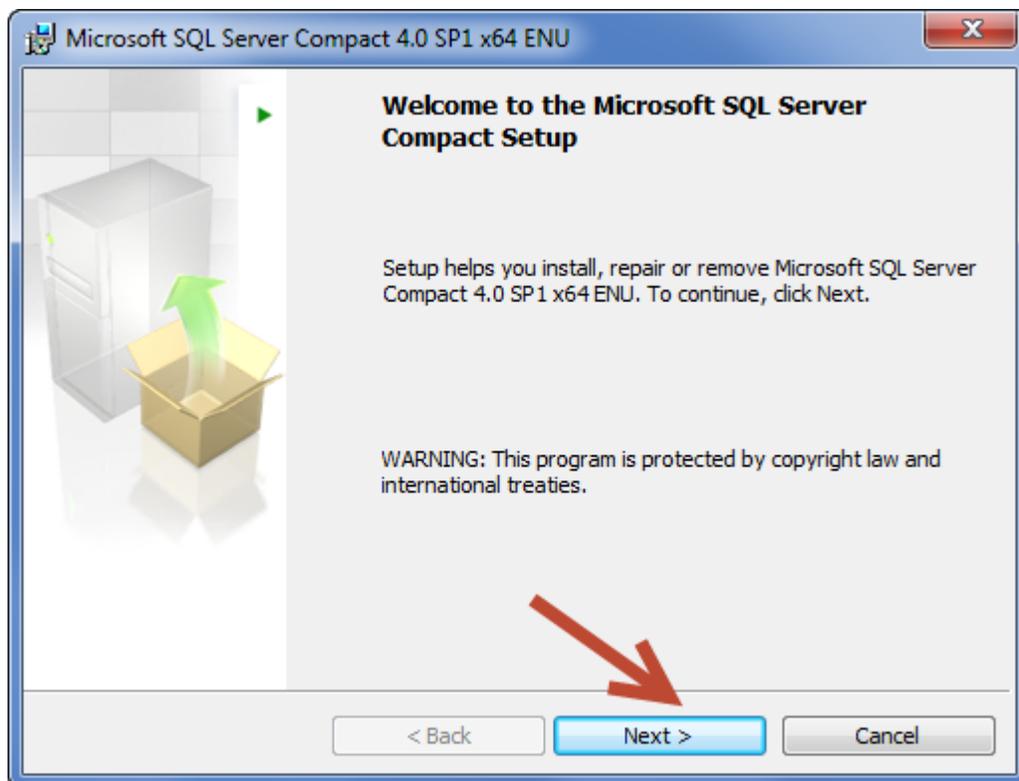
2. The setup will begin and you should see a screen similar to the one below while StreetSync is installing.



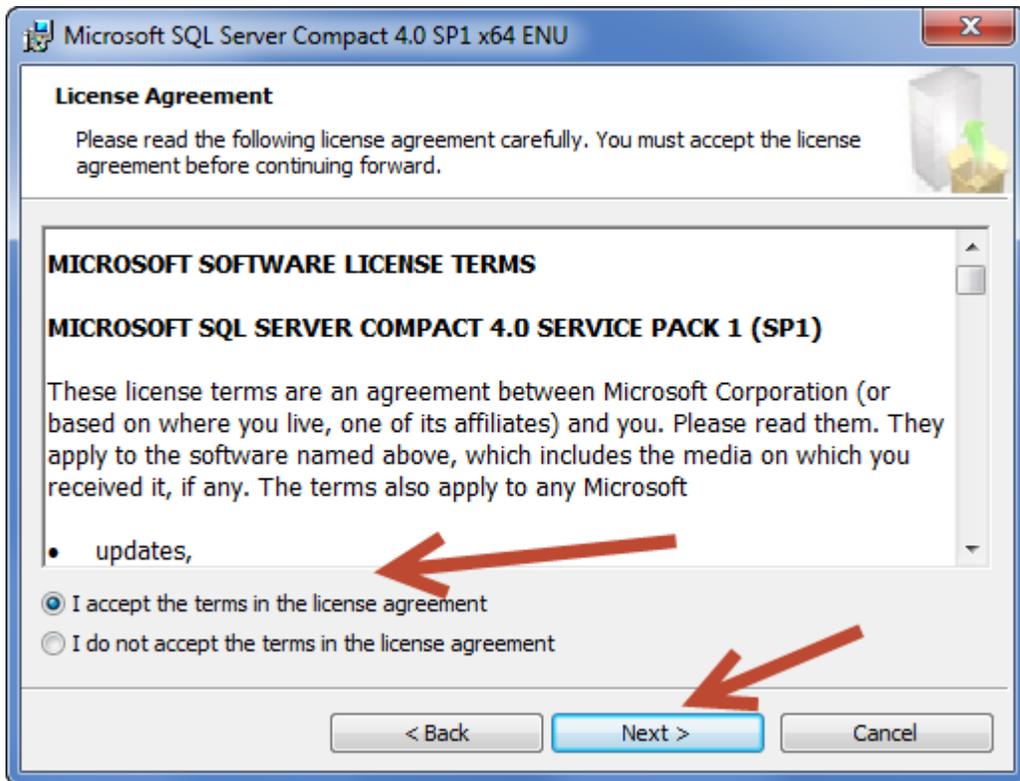
- When the initial installation is completed, the following screen will request a hardware reboot. Please answer **Yes** to reboot your PC, laptop, or tablet.



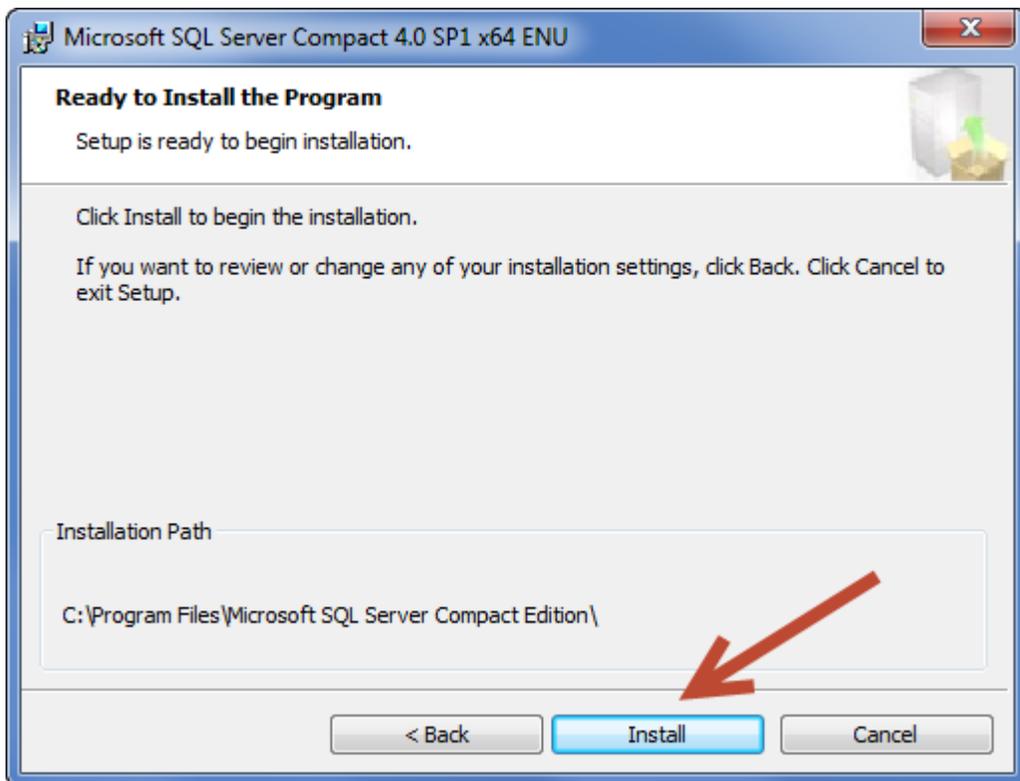
- Upon restart the following screen may be displayed depending on what has been previously installed on your PC/Laptop/Tablet computer. If this screen is displayed, then the setup will now install Microsoft SQL Compact Database software otherwise it has previously been installed. If this screen is not displayed then the setup software will skip to step 10 below.



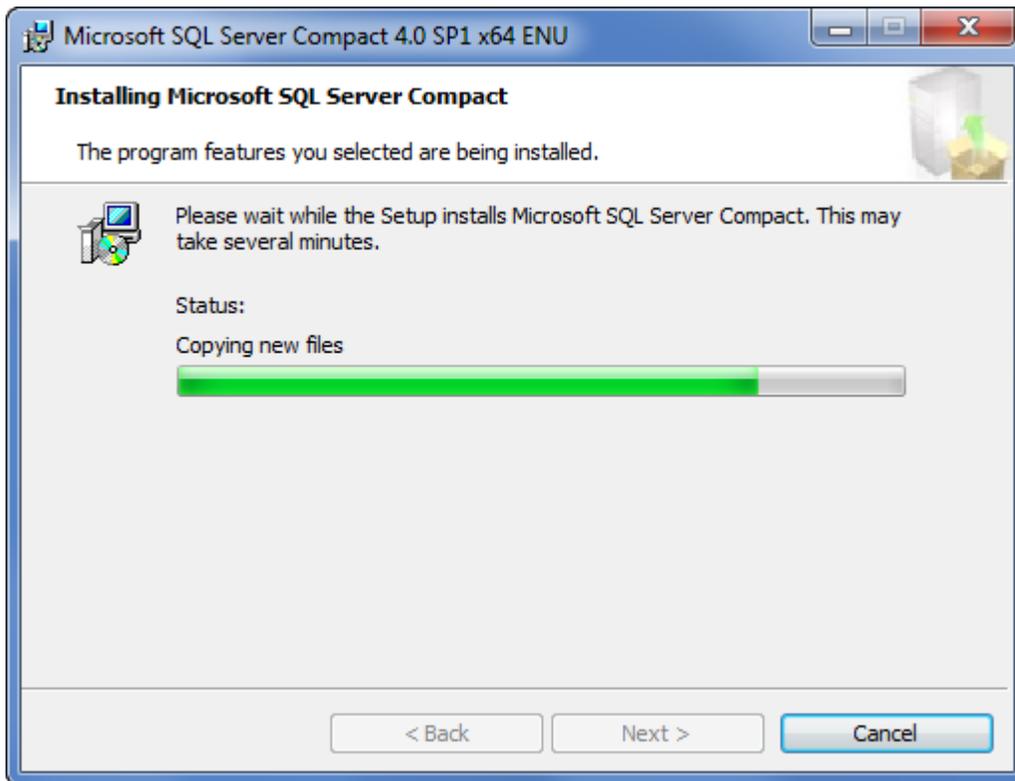
5. Select Next to continue.



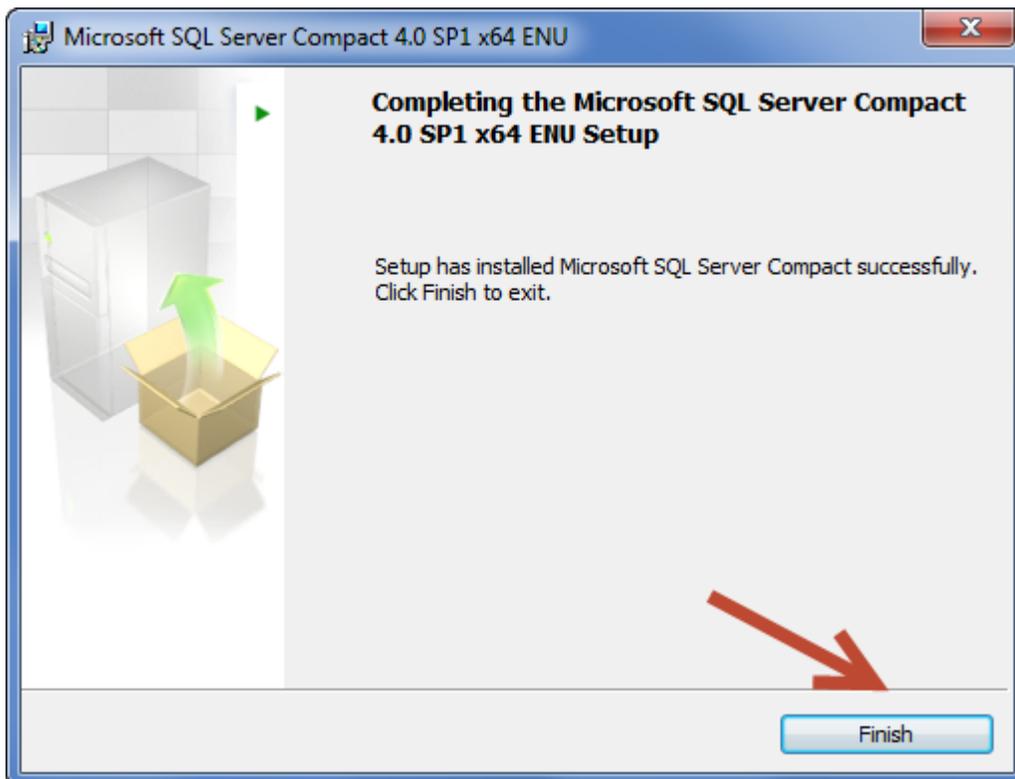
6. Accept the License Agreement and select Next to continue.



7. Select Install to install the SQL Compact Database software.

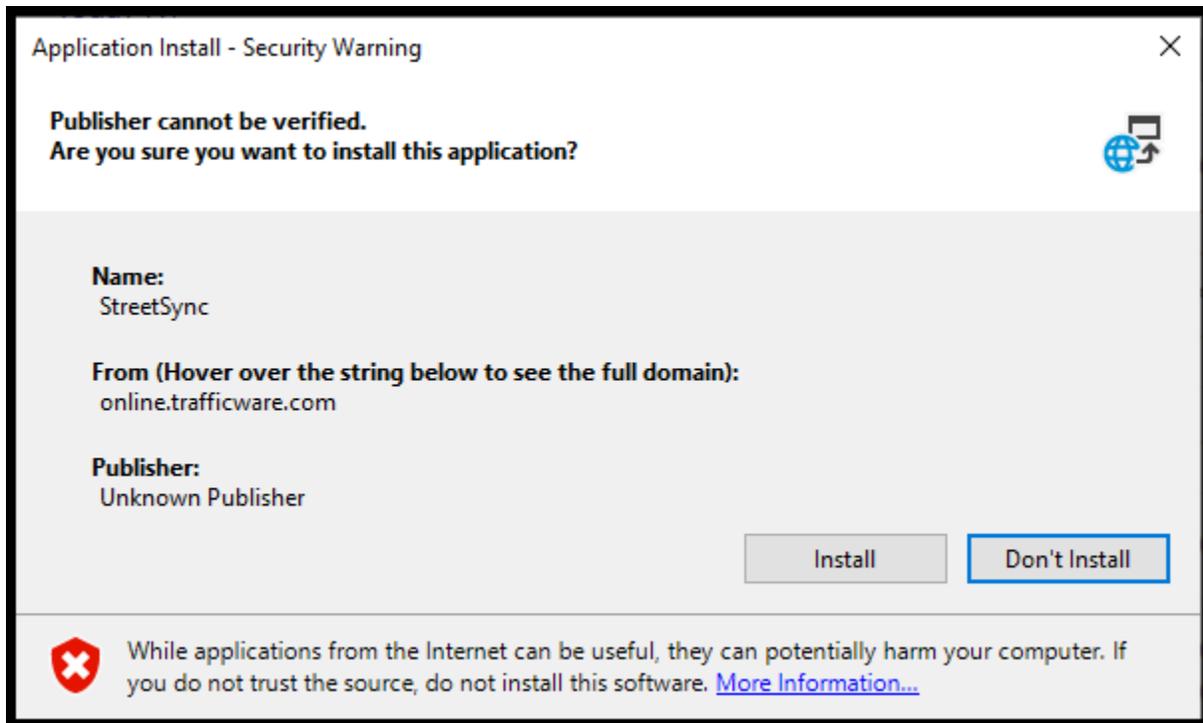


8. When completed, the following screen will be displayed.

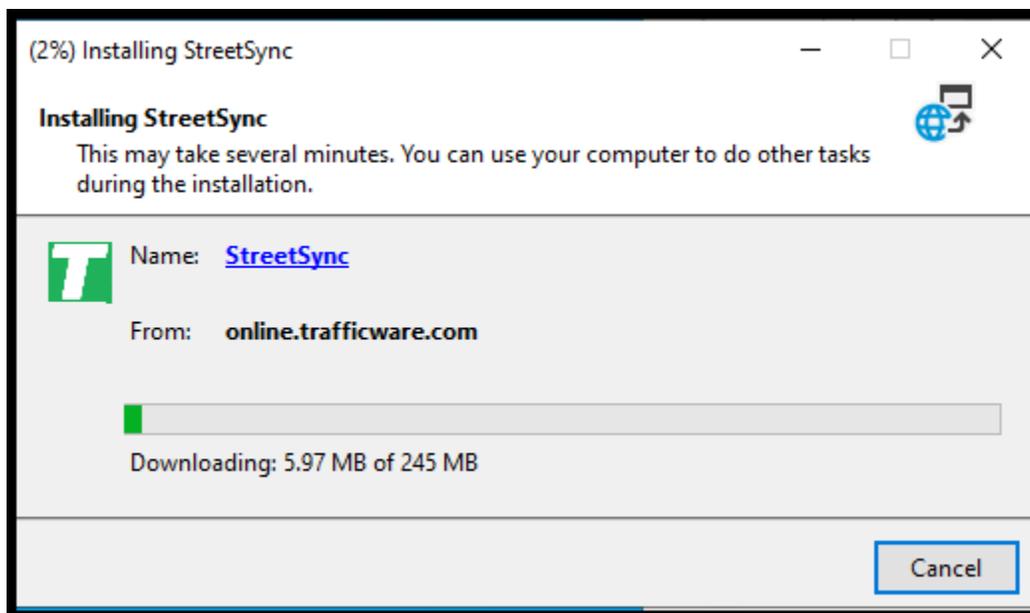


9. Select Finish to complete the Microsoft SQL Compact Database software.

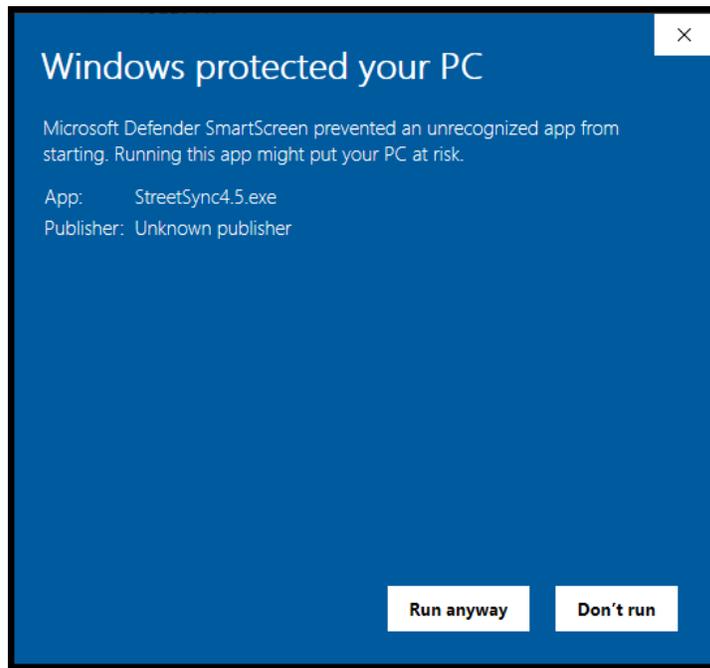
10. The following screen will automatically be displayed. If not, run Setup again to finish the StreetSync Installation.



11. While Installation is occurring, a screen similar to the following screen will be displayed.



12. When installation is completed, the user may see the following Windows Security screen:



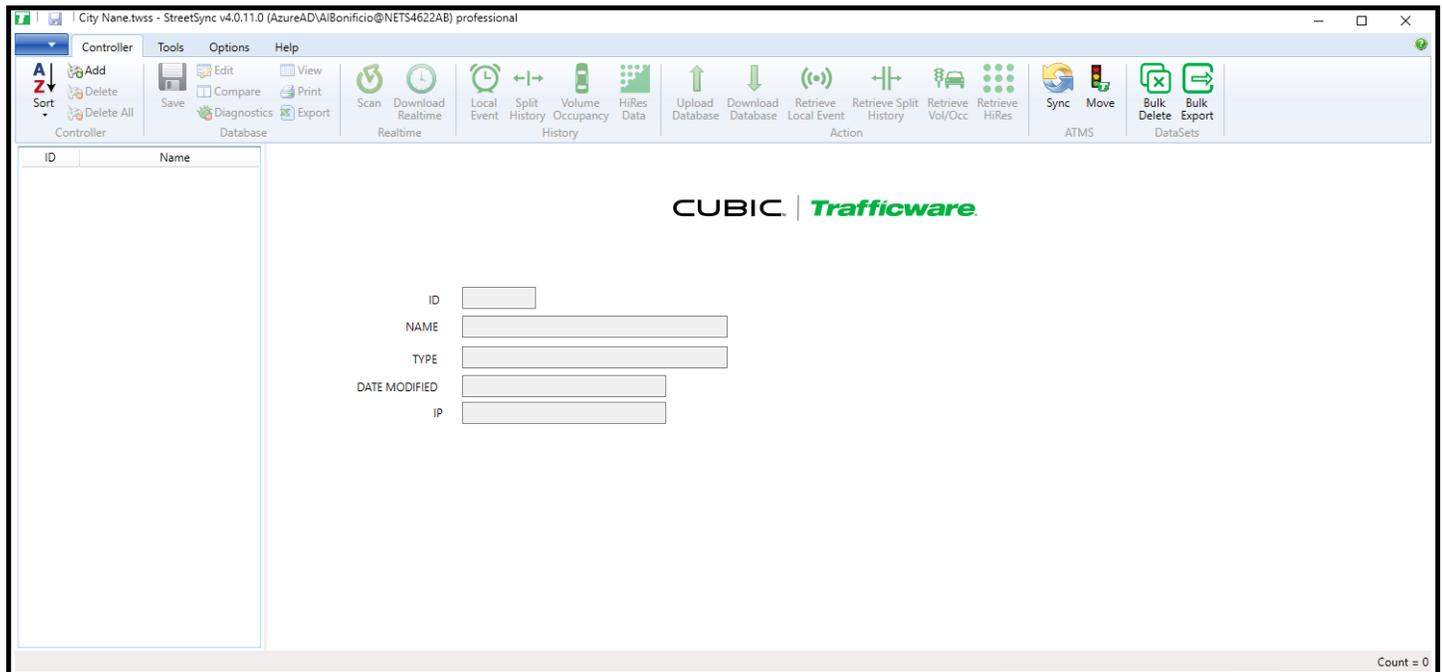
Select **Run Anyway** and StreetSync will automatically start and the splash screen below will be displayed:



When you first start StreetSync the following screen will appear.

# Starting StreetSync

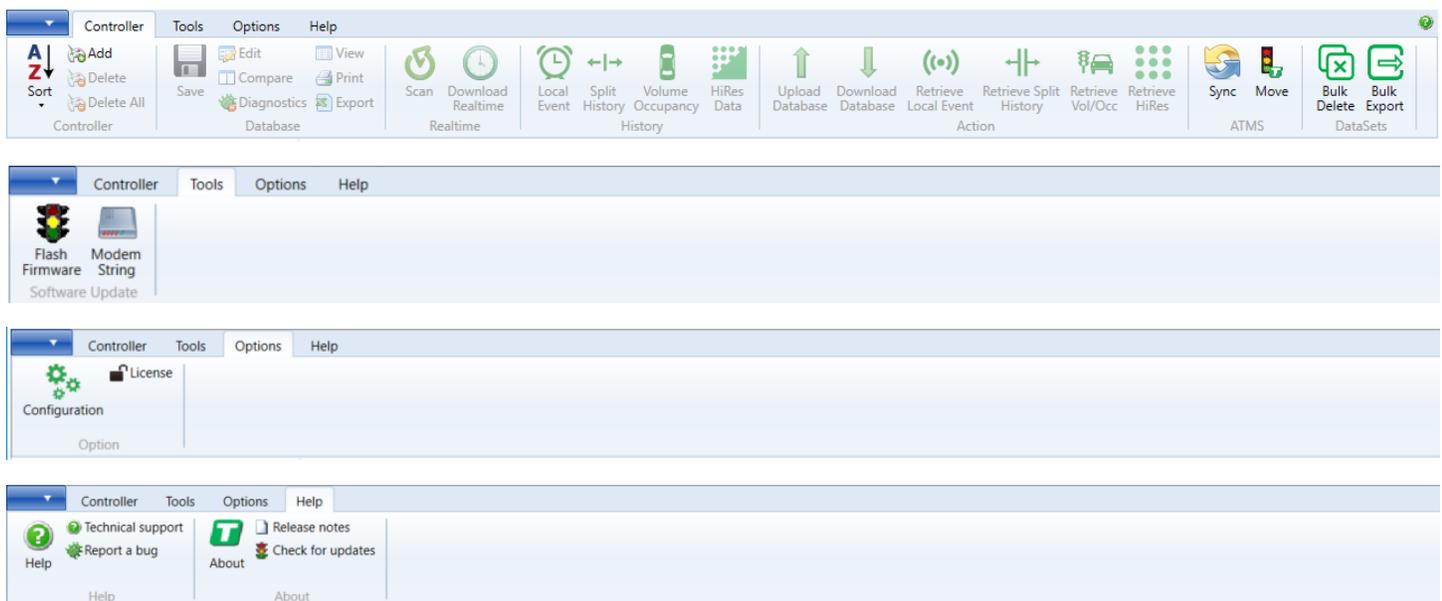
Below is the Home Page for StreetSync:



You must now license the firmware via the tool bar.

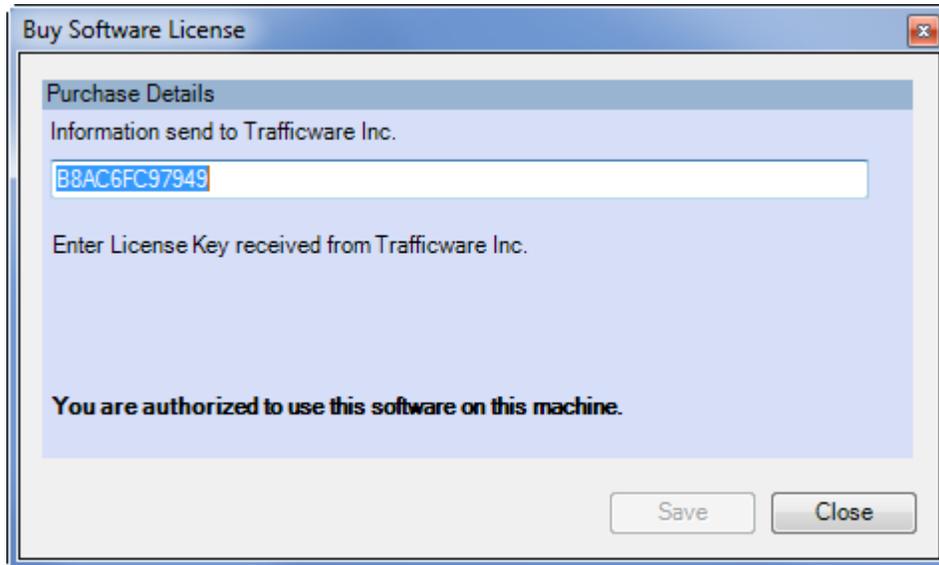
## Quick Action Tool Bar

There is a quick access toolbar on the top of the screen that allows you to access the various menus and controller databases, as shown below.

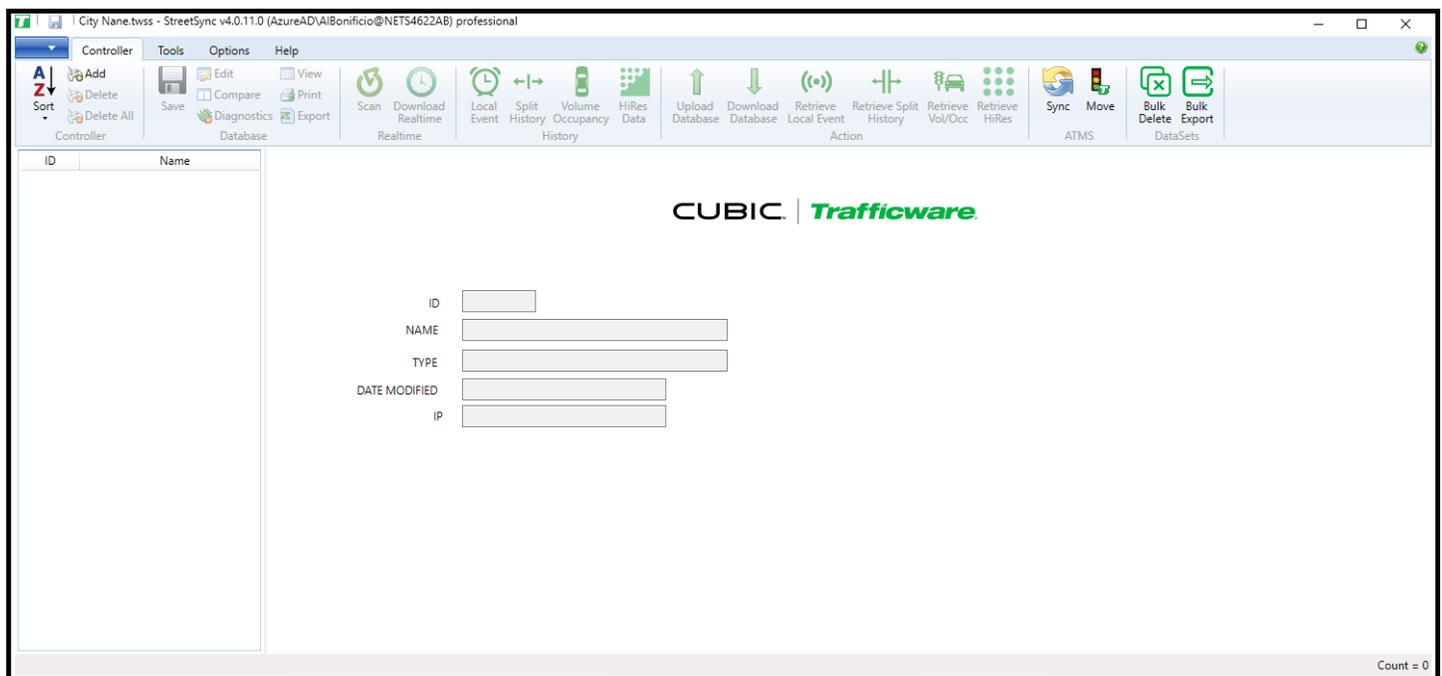


## License

Each time you install StreetSync on a PC you need to license it with Cubic | Trafficware. The following screen will appear for you to enter and validate your license. *Please contact your Cubic | Trafficware representative to acquire a license.*

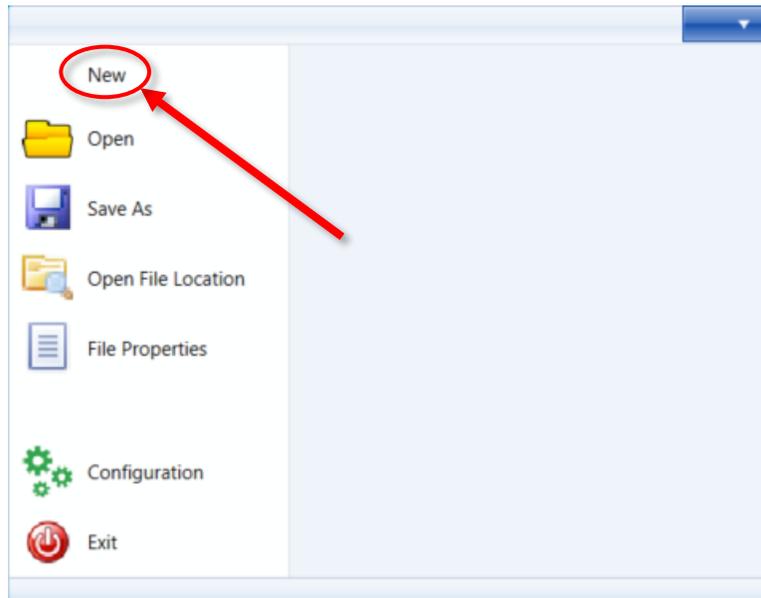


Once licensed, the following screen will appear:



## Selection Drop-Down Menu

StreetSync allows the agency to be able to save multiple jurisdictions to separate StreetSync Files. This can be helpful for larger agencies.

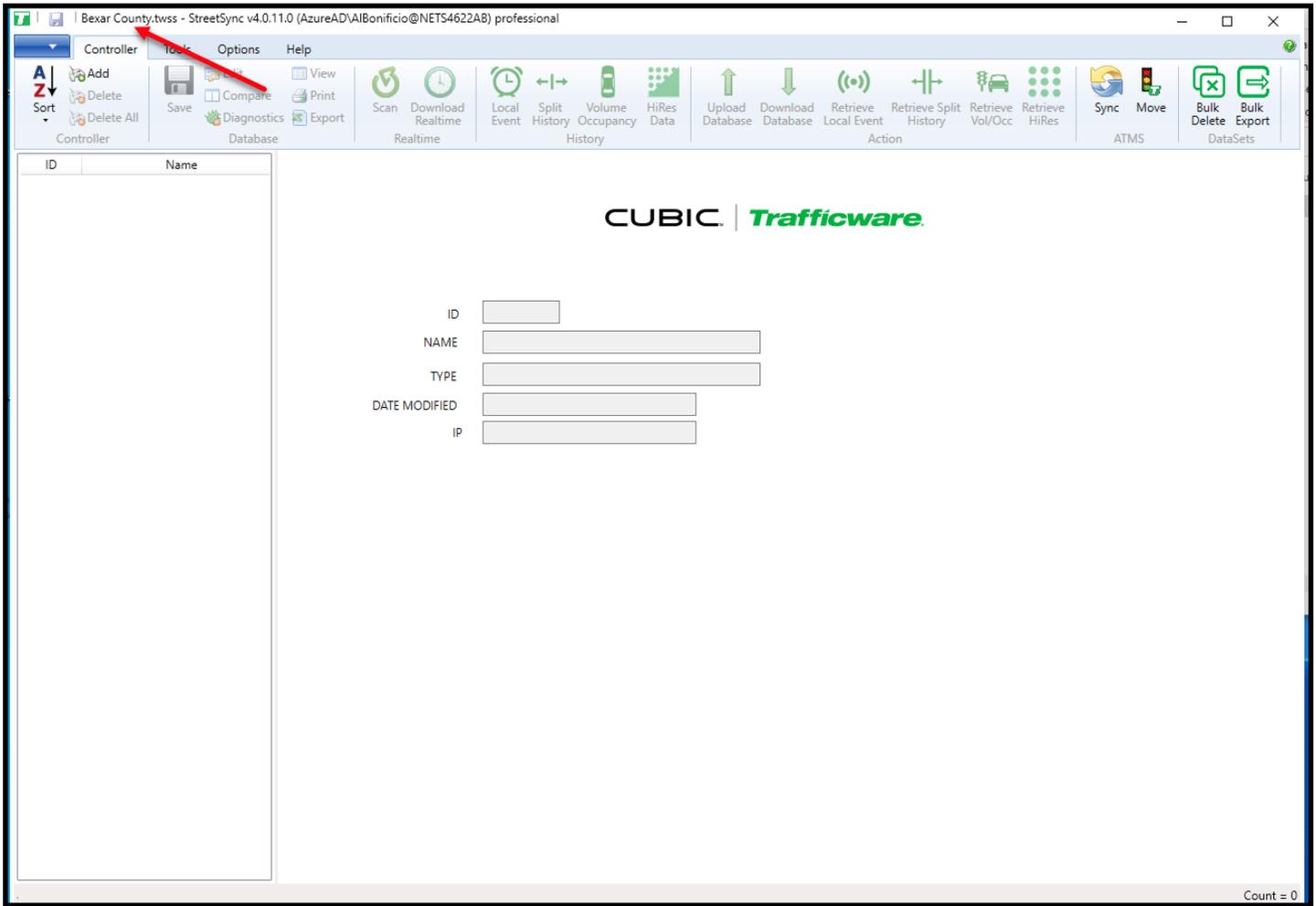


## New City/Jurisdiction

Whenever you bring up StreetSync for the first time you **must** create a city/jurisdiction. To create a new city/jurisdiction select **New** and the following screen will come up for you to enter the City, County, or Jurisdiction name.

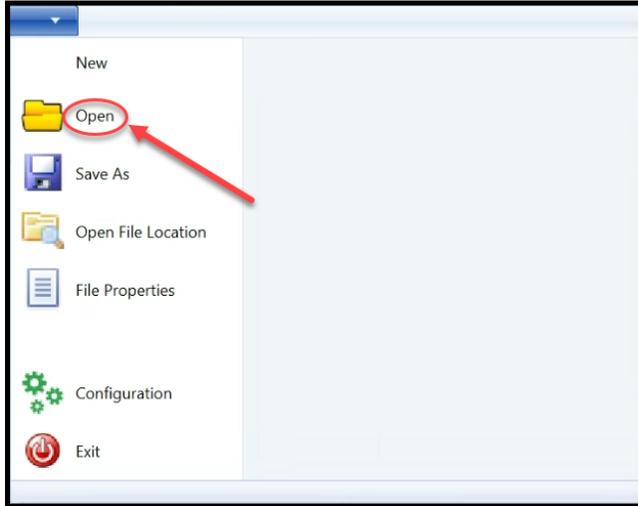
A dialog box titled 'New Document' with a close button (X) in the top right corner. It contains a label 'Agency Name:' followed by an empty text input field. Below the input field are two buttons: 'OK' and 'Cancel'.A dialog box titled 'New Document' with a close button (X) in the top right corner. It contains a label 'Agency Name:' followed by a text input field containing the text 'Bexar County'. Below the input field are two buttons: 'OK' and 'Cancel'.

Once the new city/jurisdiction is created, the title bar will change to reflect the file. At this point you can populate StreetSync by adding controllers manually or syncing to ATMS.

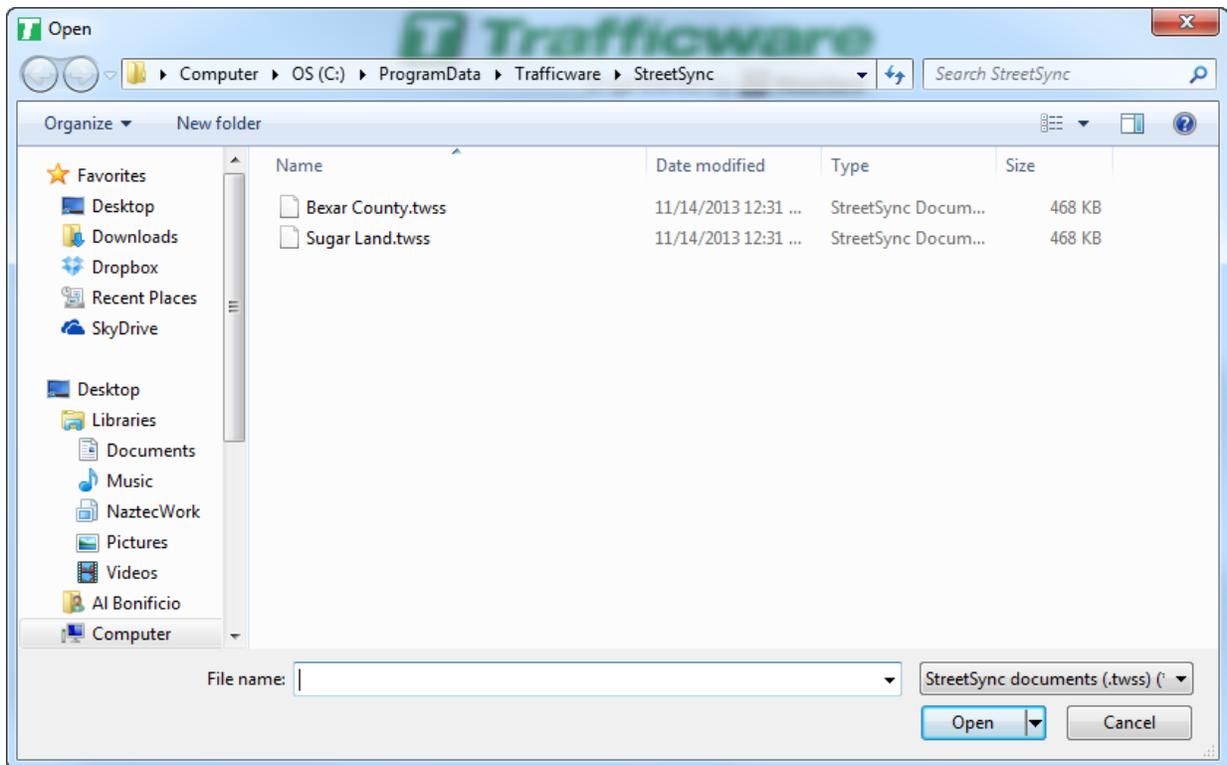


## Viewing all City/Jurisdictions

Go to the Selection Drop Down menu and choose **Open**

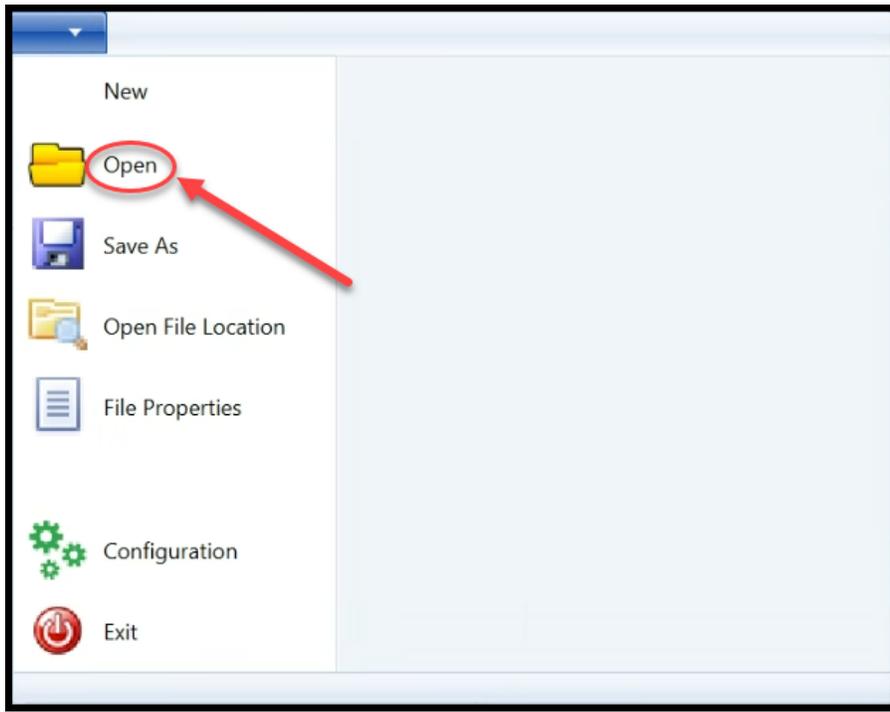


The following browser screen will be displayed.

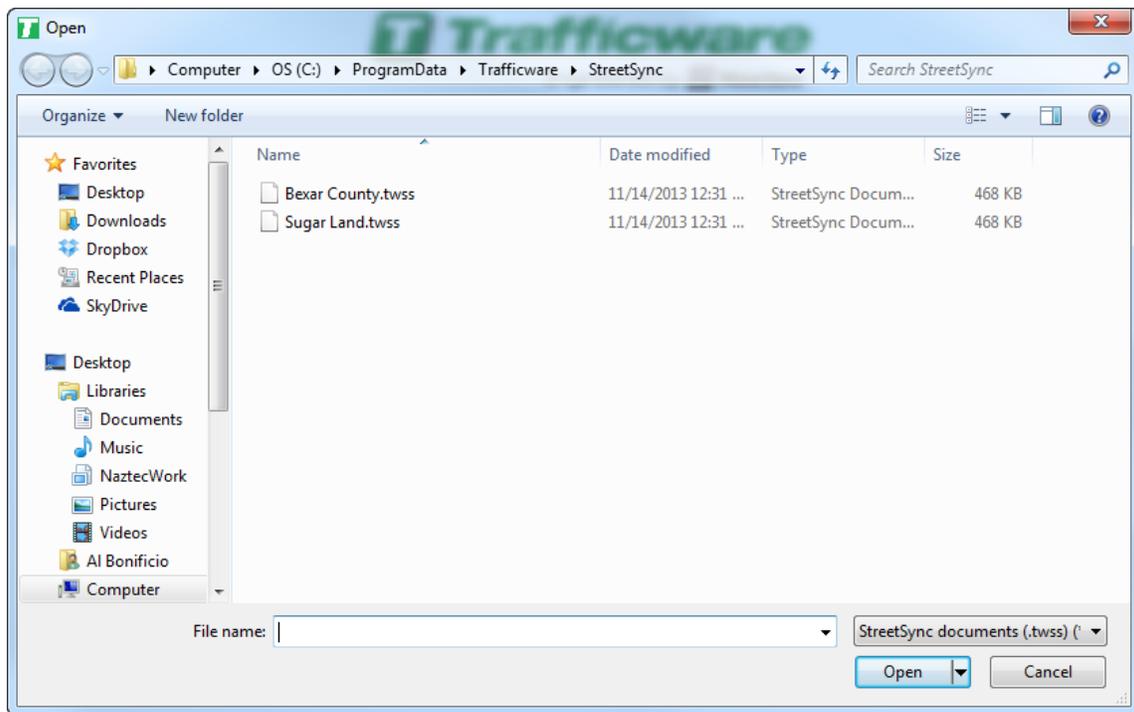


## Switch to another City/Jurisdiction

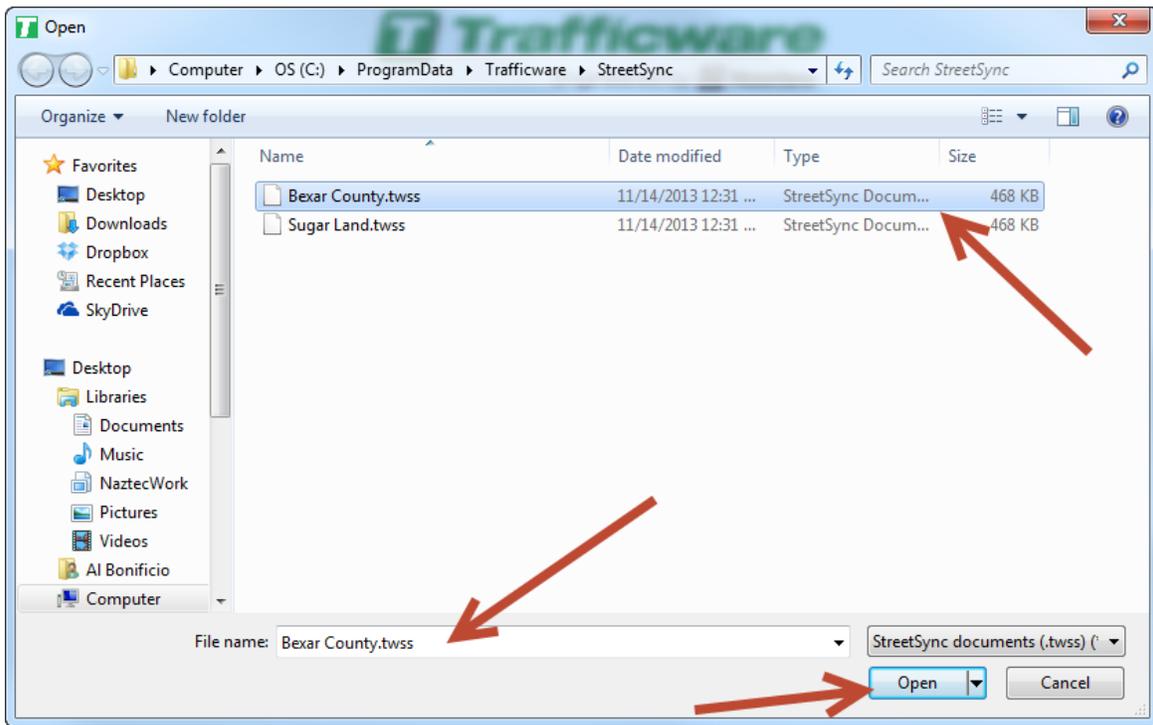
Go to the Selection Drop Down menu and choose **Open**.



The following browser screen will be displayed.



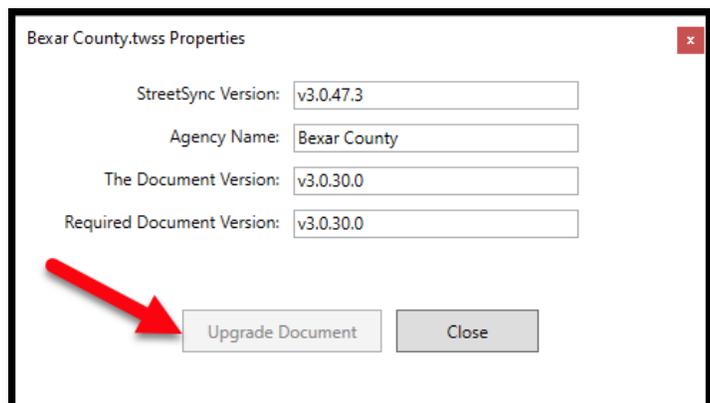
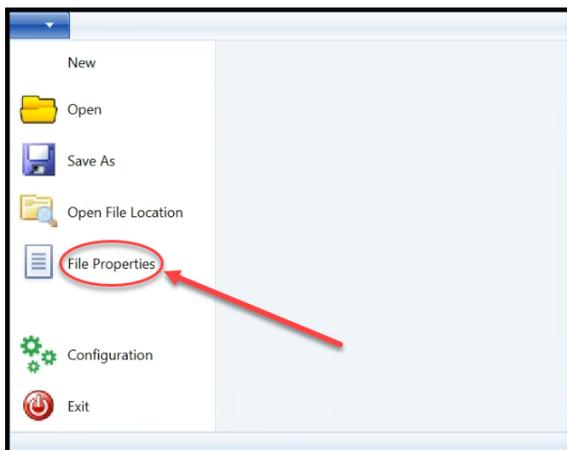
**Note:** Each city created has the extension .twss which will contain the database information for the city/jurisdiction. Select and open the file you want to access.



Once you have created a City/Jurisdiction you are ready to configure StreetSync for the interface to ATMS or to create standalone controllers.

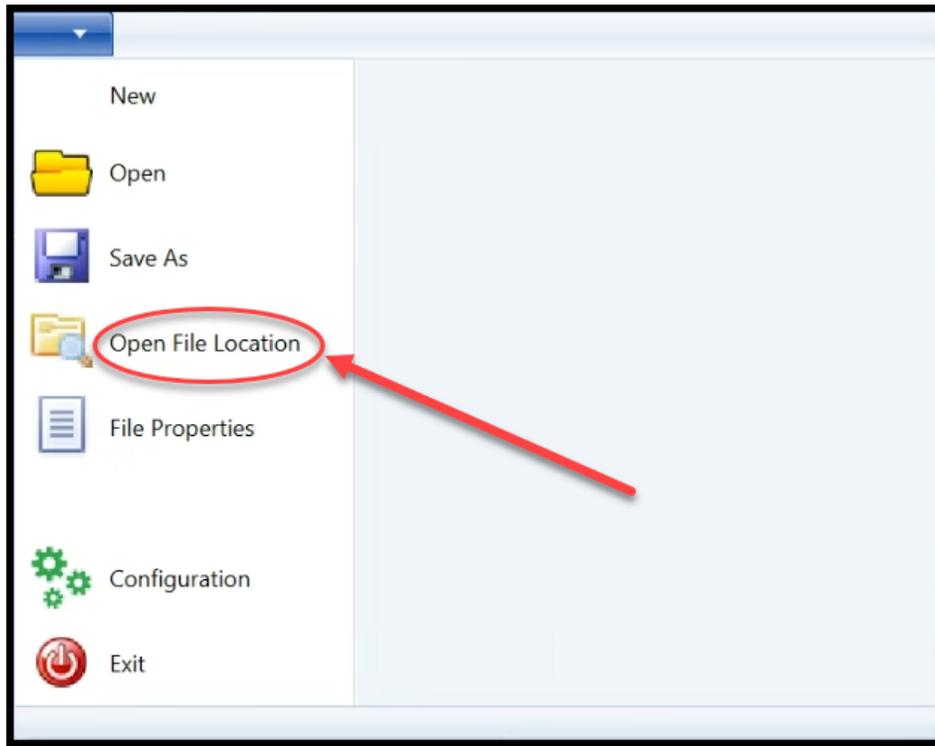
## File Properties

If your agency has a previous version of StreetSync, the City/Jurisdictional database needs to be updated to work with StreetSync 3.x or later. Selecting File Properties will run a conversion tool which will update StreetSync. If the versions are different (referred to as “Documents” on the screen below, The **Upgrade Document** button will be available to do the conversion.

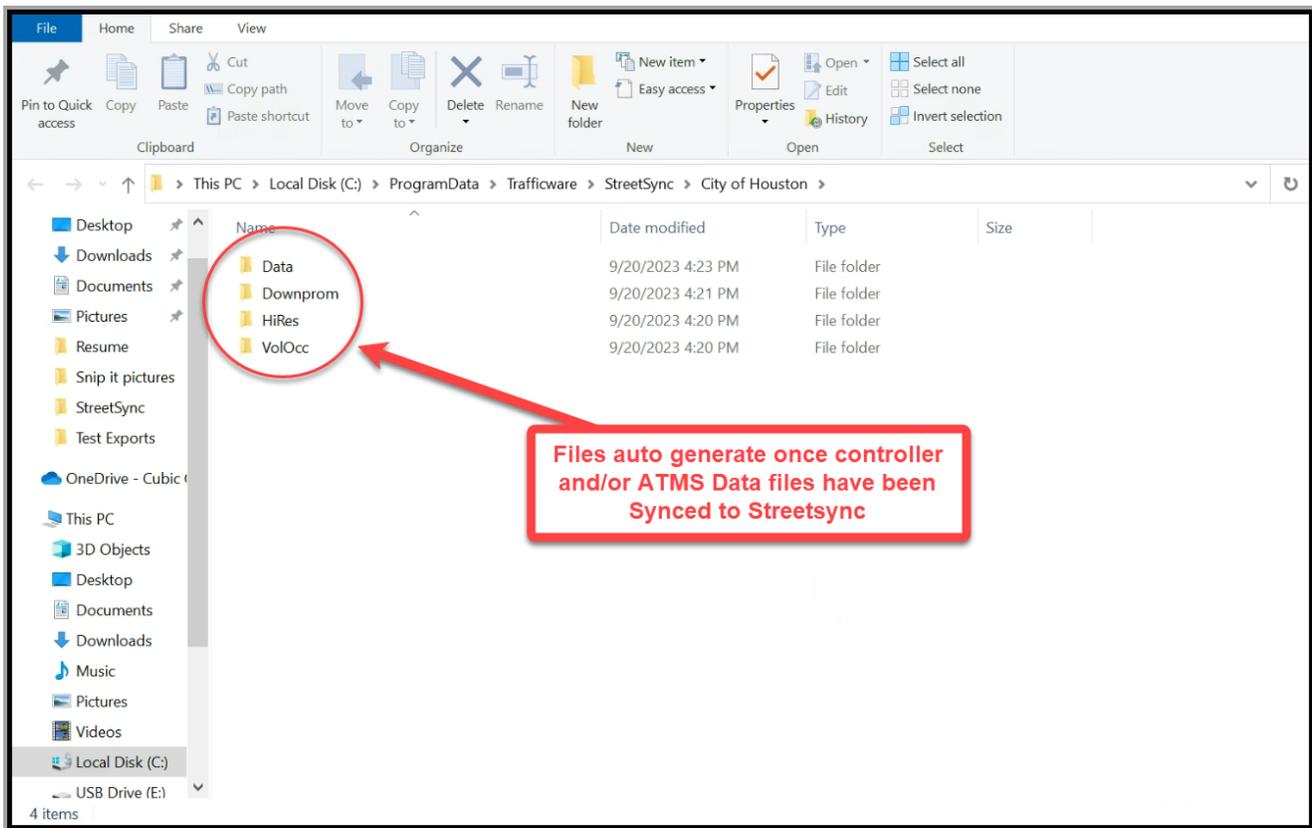


## Open File Location

Opening the File location will give access to the Data files of each city/jurisdiction.

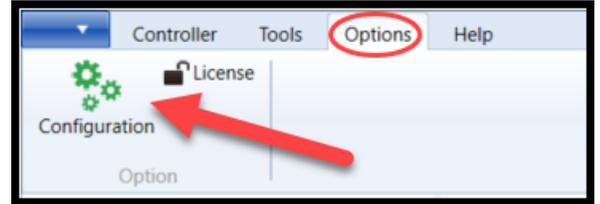


**Note: Once a new city/jurisdiction has been created, the file location will be empty until a controller and/or ATMS Data files have been Synced to ATMS.**



## Options Menu

The Options Menu is used to configure StreetSync as well as License it.



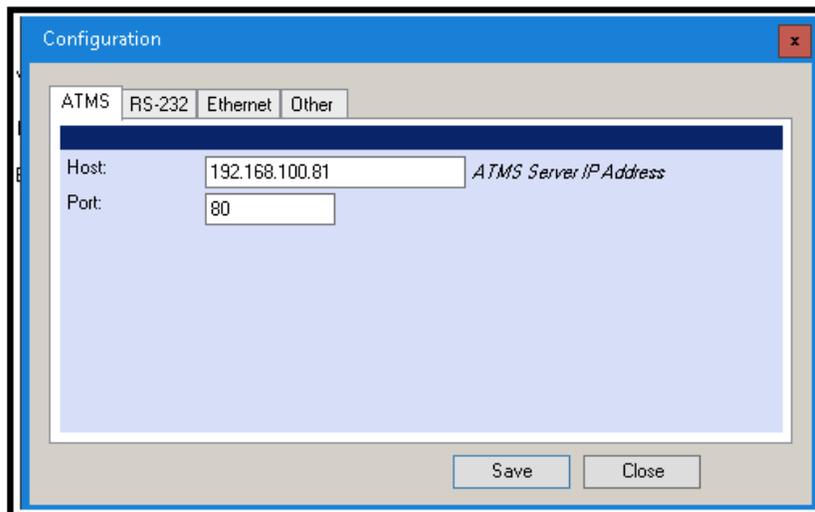
## Configuration

From the Toolbar you must first configure StreetSync to access ATMS by using the configuration button under the Options menu.

The configuration screen will have four tabs that will allow the user to configure StreetSync as shown below. The tabs that contain configuration parameters and they are described below.

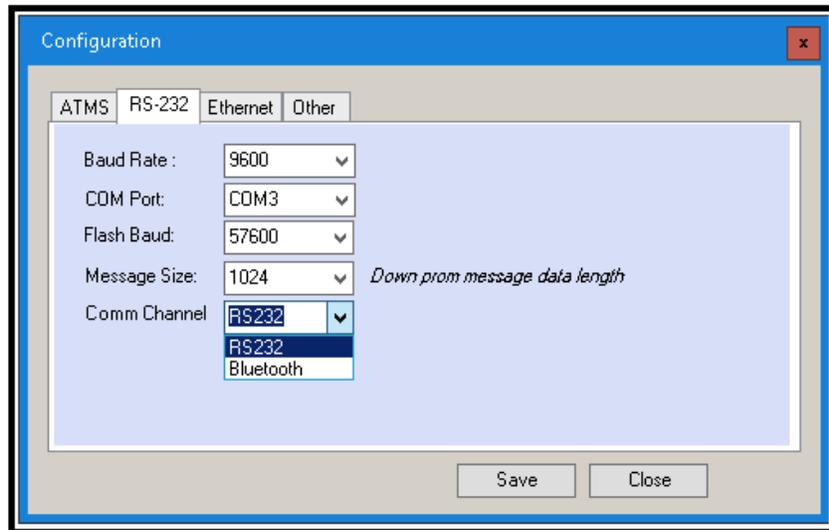
## ATMS

This screen allows the user to choose the ATMS **Server** used to get the controller list during the Sync Action and the **Port** number of that server (typically Port 80).



## RS-232

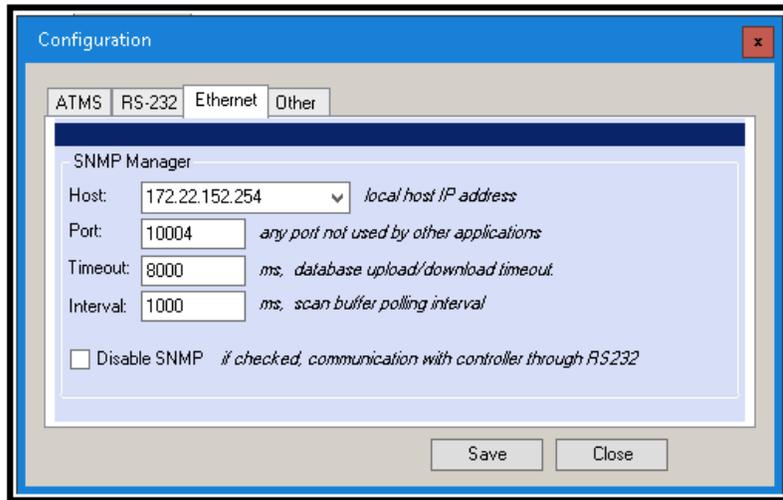
The user will be able to set up the **COMM Channel** (*RS232 or Bluetooth*) **COMM Port** and the **Baud Rate** (*9600 Baud-57600 Baud*) to be used for the laptop device that will connect to the controller. The user can also set up a **Flash Baud Rate** (*9600 Baud-57600 Baud*) when “Flashing” firmware to a TS2 controller or MMU. The user should also set up The Flash Firmware Message Length to ensure that the headers are sent to the controller.



**NOTE: The Baud Rate and Flash Baud Rate for an MMU should be set to 9600 and the Message Size should be set to 512.**

## Ethernet (Available for Controllers using Patriot [V76.x] or Scout [V85.x] software ONLY)

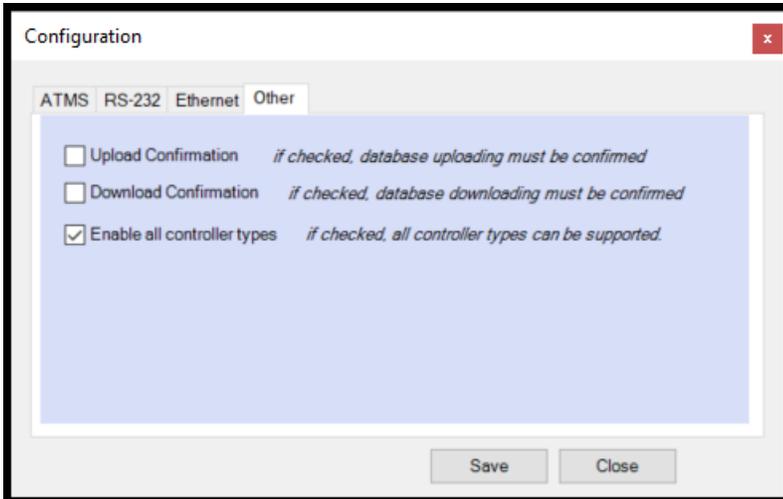
Controllers using *Patriot [V76.x]* or *Scout [V85.x]* software can (and should) communicate using a direct connect Ethernet cable. The user must program the **Host IP address (the IP of the laptop using Streetsync-4th Octet must not match the Controller I.P.)**, the **IP Port** that the laptop will use to communicate to the controller, a communications **Timeout** parameter (in milliseconds) and a polling **Interval** used in association with the scan buffer when scanning the live data from an intersection. If you are communicating with a V76.x, V80x or V85.x controller, you should use Ethernet but if it is unavailable, you can check the Disable SNMP box to communicate via RS232. Keep in mind that a typical Ethernet upload will be substantially quicker than RS232.



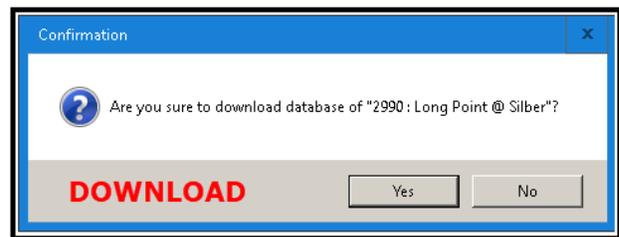
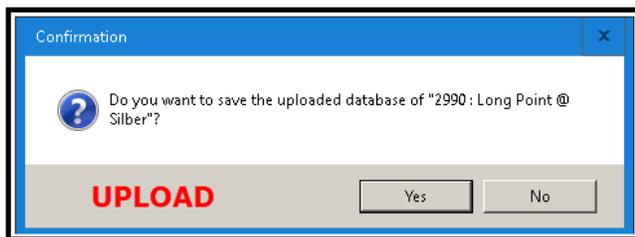
**Note: The Host IP MUST be on the same network as the controller IP to communicate.**

## Other (Confirmation of Uploads/Downloads)

If the agency requires its staff to confirm that they want to perform a database upload or download, then check the confirmation boxes under the **Other** tab as shown below.



When selected then a Confirmation Message will be displayed that will require the user to confirm before saving the uploaded database or starting the download as shown below.



In addition a selection to enable a list for all controller types (even if they are not supported in the ATMS controller selection list) after Syncing to ATMS is supported.

## Controller Menu

The controller Menu is used for interfacing with each intersection as well as ATMS. A list of actions will be displayed.



## Sync

Sync is found under the ATMS section as shown below.



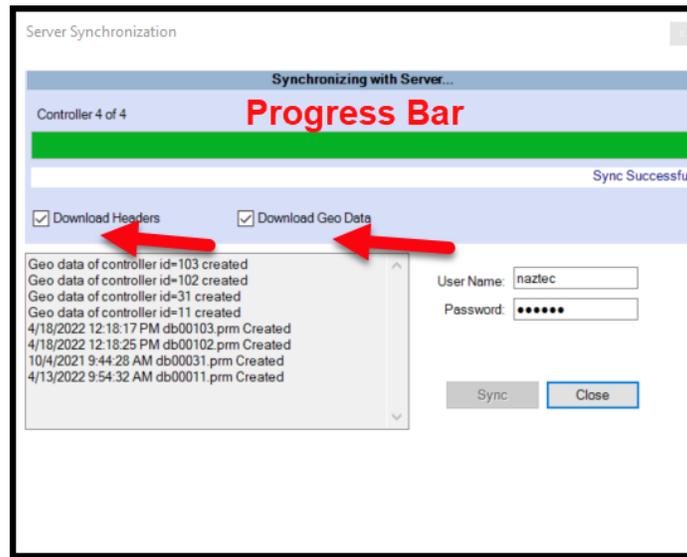
When the user clicks the **Sync** action in the ATMS section, the system will display the Sync action item as shown below.

A screenshot of a dialog box titled 'Server Synchronization'. It has a close button in the top right corner. The dialog is divided into sections. The top section is 'Synchronize with Server' with a large empty text area below it. Below that are two checkboxes: 'Download Headers' and 'Download Geo Data', both of which are unchecked. At the bottom right, there are four input fields: 'User Name:', 'Password:', 'ATMS Server: 192.168.1.50', and 'ATMS Port: 80'. Below these fields are two buttons: 'Sync' and 'Close'.

Logging into the ATMS server is required for syncing. In addition, the log-in will reflect the jurisdictional control that is set up in ATMS. Therefore, by logging-in the user's StreetSync database will only synchronize the databases that they are allowed to use. The user must provide a username and password as shown below then select Sync.

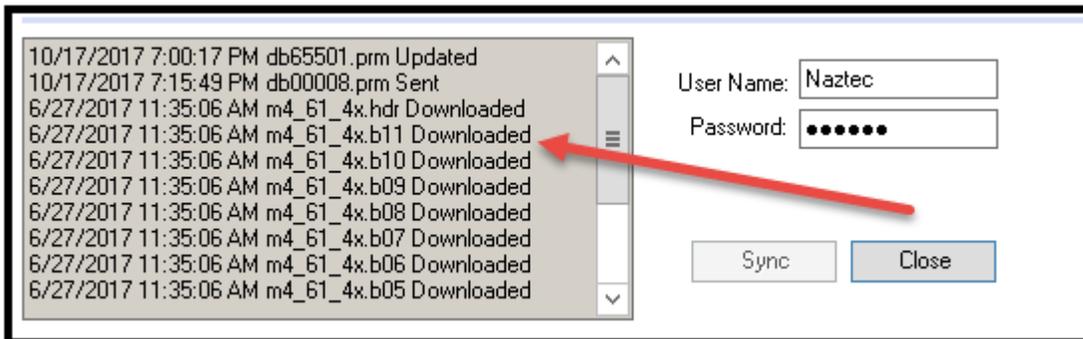
A screenshot of the 'Server Synchronization' dialog box, identical to the previous one but with the input fields filled. The 'User Name' field contains 'naztec', the 'Password' field contains a series of dots, the 'ATMS Server' field contains '192.168.1.50', and the 'ATMS Port' field contains '80'. The 'Sync' button is highlighted in blue.

Sync will begin the Synchronization process. While the Synchronization process occurs, a progress bar indicating how much of the controller data set has been synchronized with the server. The user may cancel the operation at any time.



Please note that the user can select Download Headers if it is desired to download firmware to TS2 controllers or MMU's. StreetSync will search for the server directory **...Naztec/Nazserv/Downprom** for the TS2 firmware data and header files and place it in the **Downprom** folder of the StreetSync City directory. Also Download GeoData can be selected to download Intersection Layout information from ATMS for use with the Scan selection.

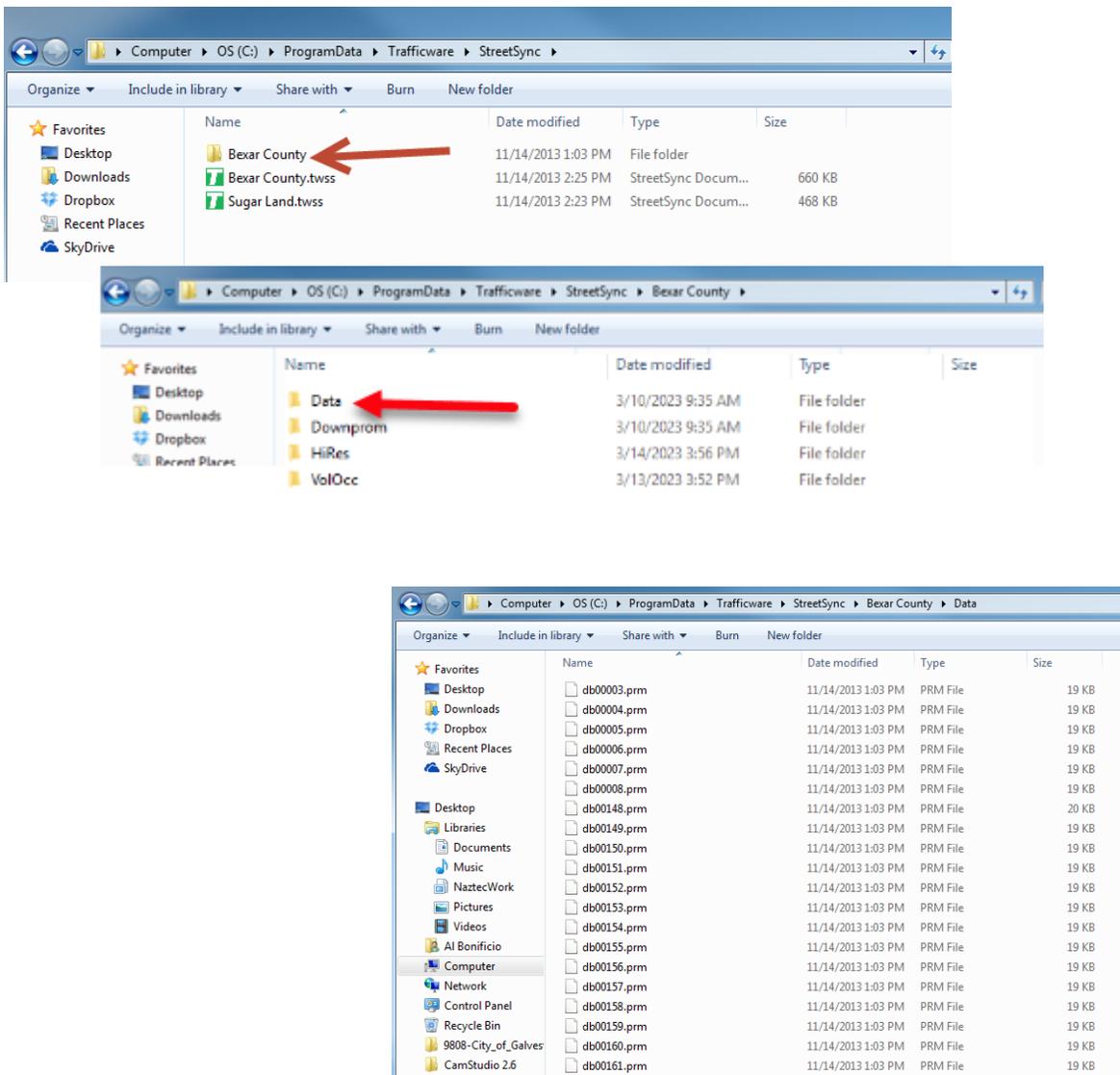
When the Sync is completed, a list of controllers will be displayed. Please note that the status of the transfer from ATMS to StreetSync is also displayed on the left side of the screen as shown below.



## Considerations: Synchronizing Software

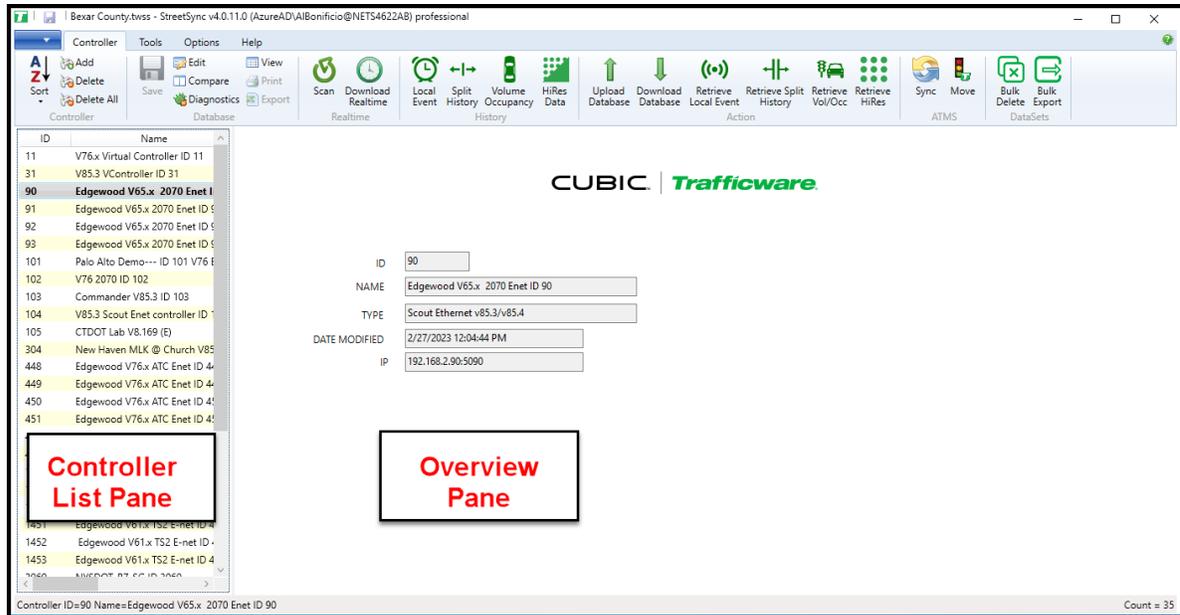
For existing controllers, the synchronization logic first compares the timestamps of the Upload file in ATMS with the “Last Updated” timestamp in ATMS StreetSync. If the “Last Updated” timestamp in StreetSync is newer than the Upload file in ATMS, the controller settings from StreetSync are copied to the Upload file of the corresponding controller in ATMS. If the Upload file in ATMS is equal to or newer than the “Last Updated” timestamp in StreetSync, then the timestamp of the Permanent file in ATMS is compared to the “Last Updated” timestamp in StreetSync. If the timestamp of the Permanent file in ATMS is newer than the “Last Updated” timestamp in StreetSync, then the Permanent file of the controller in ATMS is copied to StreetSync. Finally, if the controller name or type is different between ATMS and StreetSync, then the Permanent file of the controller in ATMS is copied to StreetSync.

Once synchronized StreetSync will create folders with the data as shown below.

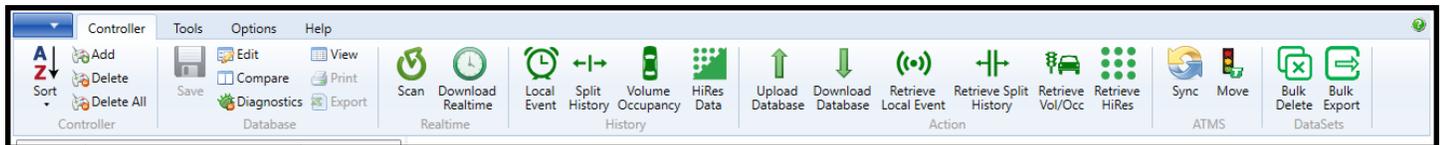


# Initial Screen

When the app first starts, it will display the list of controllers in the system as shown above, As already stated, this list will be populated from the application server after syncing from the server. There are two sizable windowpanes that the user can view: the Controller List pane and the Overview pane.



The user can select an intersection and access the various actions via the icons on the Action Bar as shown below.



Additionally, the user can select an intersection and right click to access the Actions as shown below.

The screenshot displays the Streetsync software interface. On the left, a table lists various controllers with columns for ID, Name, Date Modified, and Type. The entry '103 Commander V85.3 ID 103' is selected, and a context menu is open over it, listing actions such as Upload, Download, Edit, View, Compare, Diagnostics, Scan, Retrieve, View History, Sync with ATMS, Move, Delete Data, and Export Data. On the right, a form displays the details for the selected controller: ID 103, NAME Commander V85.3 ID 103, TYPE Scout Ethernet v85.3/v85.4, DATE MODIFIED 2/7/2023 10:13:29 AM, and IP 192.168.4.103:5103. The CUBIC | Trafficware logo is visible at the top right of the interface.

ID	Name	Date Modified	Type
11	V76.x Virtual Controller ID 11	3/10/2023 9:35:23 AM	v76 Ethernet Virtual Controller
31	V85.3 VController ID 31	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
90	Edgewood V65.x 2070 Enet ID 90	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
91	Edgewood V65.x 2070 Enet ID 91	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
92	Edgewood V65.x 2070 Enet ID 92	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
93	Edgewood V65.x 2070 Enet ID 93	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
101	Palo Alto Demo--- ID 101 V76 E-net	3/10/2023 9:35:23 AM	NTCIP 76.x 2070 Ethernet
102	V76 2070 ID 102	3/10/2023 9:35:23 AM	NTCIP 76.x 2070 Ethernet
103	Commander V85.3 ID 103	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
104	V85.3 Scout Enet controller ID 104	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
105	CTDOT Lab V8.169 (E)	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
304	New Haven MLK @ Church V85.1	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
448	Edgewood V76.x ATC Enet ID 448	3/10/2023 9:35:23 AM	ATC Ethernet
449	Edgewood V76.x ATC Enet ID 449	3/10/2023 9:35:23 AM	ATC Ethernet
450	Edgewood V76.x ATC Enet ID 450	3/10/2023 9:35:23 AM	ATC Ethernet
451	Edgewood V76.x ATC Enet ID 451	3/10/2023 9:35:23 AM	ATC Ethernet
452	Edgewood V76.x ATC Enet ID 452	3/10/2023 9:35:23 AM	ATC Ethernet
453	Edgewood V76.x ATC Enet ID 453	3/10/2023 9:35:23 AM	ATC Ethernet
1448	Edgewood V61.x TS2 E-net ID 448	3/10/2023 9:35:23 AM	TS2 Ethernet
1449	Edgewood V61.x TS2 E-net ID 449	3/10/2023 9:35:23 AM	TS2 Ethernet
1450	Edgewood V61.x TS2 E-net ID 450	3/10/2023 9:35:23 AM	TS2 Ethernet
1451	Edgewood V61.x TS2 E-net ID 451	3/10/2023 9:35:23 AM	TS2 Ethernet
1452	Edgewood V61.x TS2 E-net ID 452	3/10/2023 9:35:23 AM	TS2 Ethernet
1453	Edgewood V61.x TS2 E-net ID 453	3/10/2023 9:35:23 AM	TS2 Ethernet
3060	NVSDOT-R7-SG ID 3060	3/10/2023 9:35:23 AM	NTCIP 76.x 2070 Ethernet

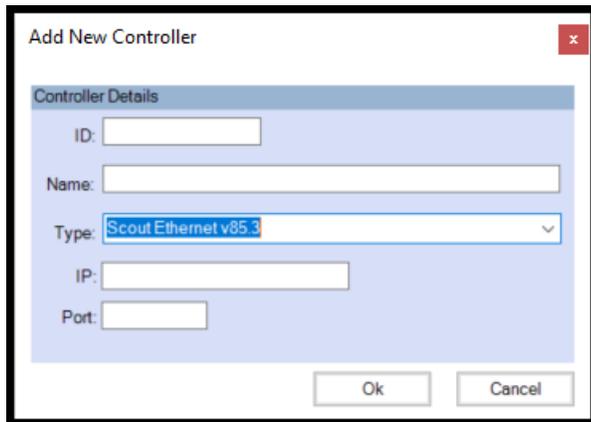
## Controller Section

The controller section menu allows the user to modify the controller database that StreetSync utilizes.



### Add

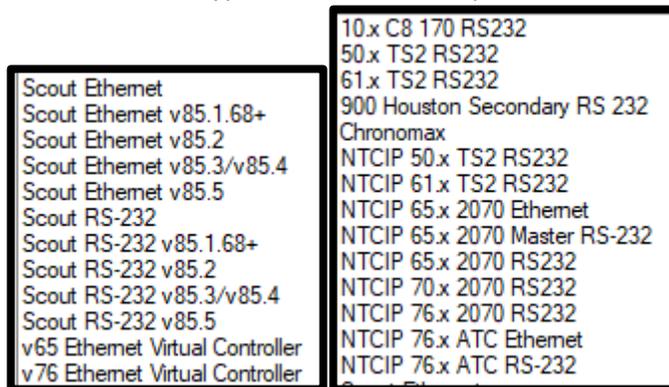
If you add a new controller to the StreetSync database, the following screen will be displayed.



**ID:** Choose an ID that is not in the database. Valid ID numbers are 1-63,535.

**NAME:** Give a description of this controller.

**TYPE:** this is the type of controller that you are communicating with. The types are listed below:



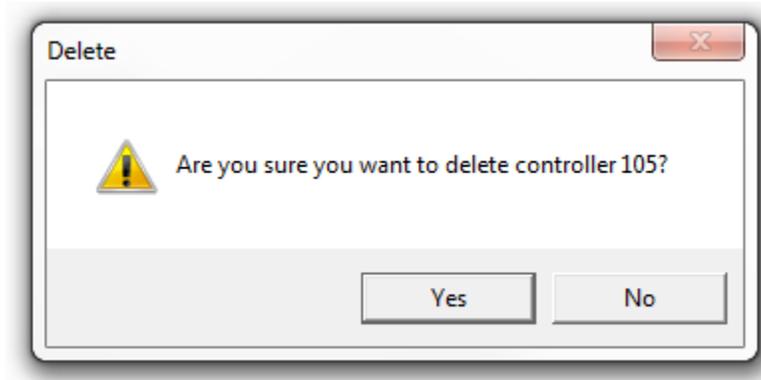
**IP:** this is the IP address if you select an Ethernet type controller. This is the address that is used when communicating with StreetSync.

**Port:** is the windows port number used when communicating with StreetSync.

**Important:** If you create a new controller on the laptop, it will be highlighted as a different color (**RED**) in the controller List Pane and will not be part of the ATMS configuration. If adding to a City/Jurisdiction's ATMS a corresponding Definition must be created in ATMS to match Controller I.D.#, Name, Type, I.P.# and Port #.

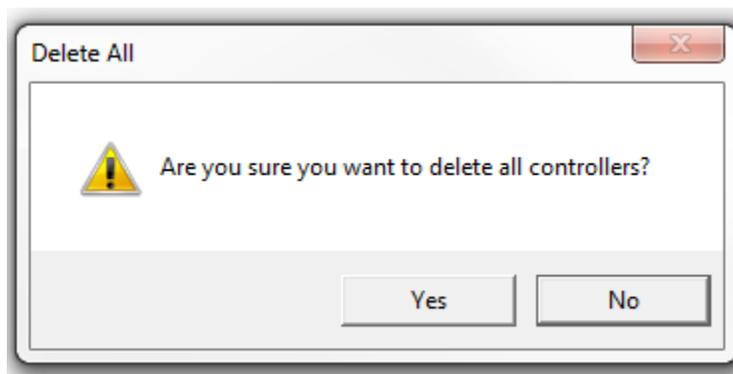
## Delete

To delete a controller from the Street Sync Database, select it and select **Delete**. A confirmation screen will appear. By selecting **Yes**, the controller will be deleted.



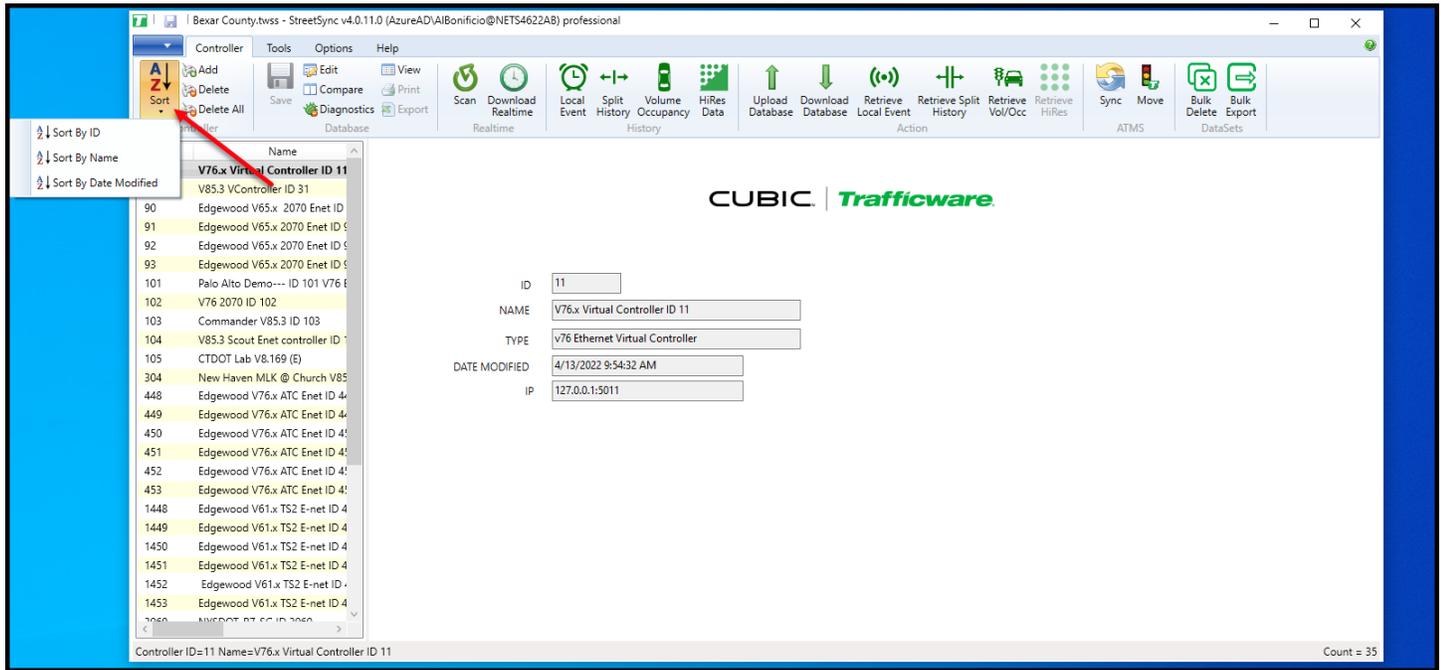
## Delete All

This selection will delete all controllers from the StreetSync database. Again, a confirmation screen will appear.



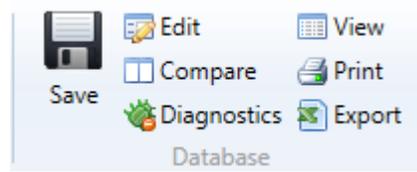
## A-Z Sort ↓

You can sort the database by ID Number, by Controller Name or by the Date Modified by this selection or by double-clicking on the column fields in the List pane.



## Database Section

The Database Section allows the user to select a database and view, modify and save database parameters for each controller. Once a user selects a controller the user can access this section.



**NOTE:** The Database Section is enabled using a machine specific license key. **Contact your Cubic | Trafficware representative on information on acquiring this capability.**

## View

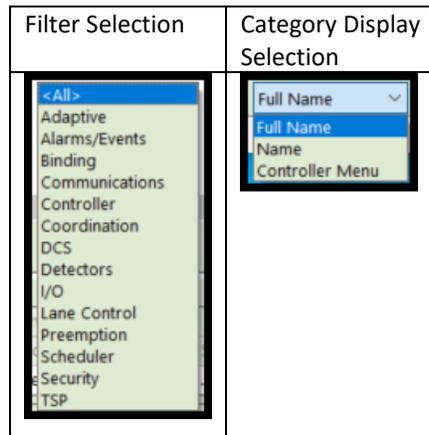
This selection allows the user to view data. The Save icon on the overview pane will be **greyed** out when view is selected. StreetSync provides a database Filter for easy navigation to the specific database categories of the selected database. The Filter categorizes the database according to the database categories provided in the controller. When a category is selected, the affiliated sub-categories will display in tabs within the window. If "All" is selected, every database tab will be displayed. The database tabs display and operate similar to Microsoft Excel. The Category Display will have tab's using the Full Name Menu (Both), Name only menu, and Controller Menu (in ascending Numerical order).

**Controller #102 - Phase Times and Options(1.1.1/1.1.2)**

Phase	Min	Green	Gap	Ext	Max1	Max2	Yellow	Clr	Red	Clr	Walk	Ped	Clearance	Red	Revert	Added	Initial	Max	Initial	Time	Before	Reduce	Cars	Before	Reduce	Time	To	Reduce	Reduce	By	Min	Gap	Dynamic
Phase 1	5		1.5		25	50	3.5		1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 2	5		2		25	50	3.5		1.5	5	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 3	5		1.5		25	50	3.5		1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 4	5		2		25	50	3.5		1.5	5	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 5	5		1.5		25	50	3.5		1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 6	5		2		25	50	3.5		1.5	5	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 7	5		1.5		25	50	3.5		1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 8	5		2		25	50	3.5		1.5	5	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 9	0	0	0	0	0	0	3.5		1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 10	0	0	0	0	0	0	3.5		1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 11	0	0	0	0	0	0	3.5		1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 12	0	0	0	0	0	0	3.5		1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 13	0	0	0	0	0	0	3.5		1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 14	0	0	0	0	0	0	3.5		1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 15	0	0	0	0	0	0	3.5		1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Phase 16	0	0	0	0	0	0	3.5		1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 1

Filter: Controller | Category Display: Full Name



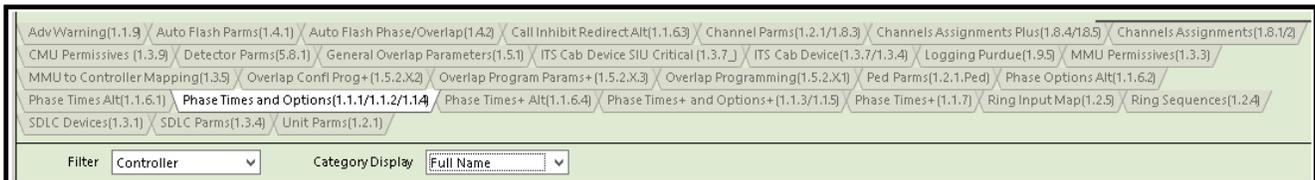
The Category Display section will display each tab using the Full Name Menu (Both), Name only menu, and Controller Menu (in ascending Numerical order).

Please Note that this feature may not be available for all controller types.

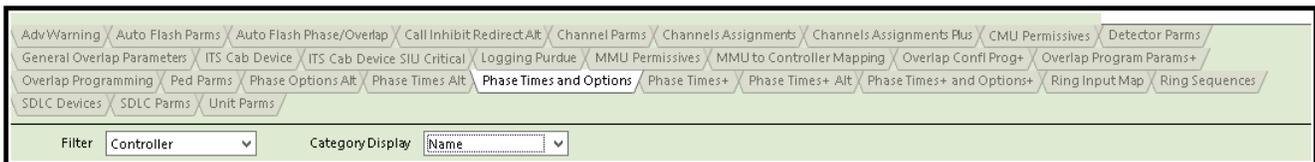


Below is an example of the Controller Filter tab displays based on the Category display selection as shown below:

### Full Name



### Name

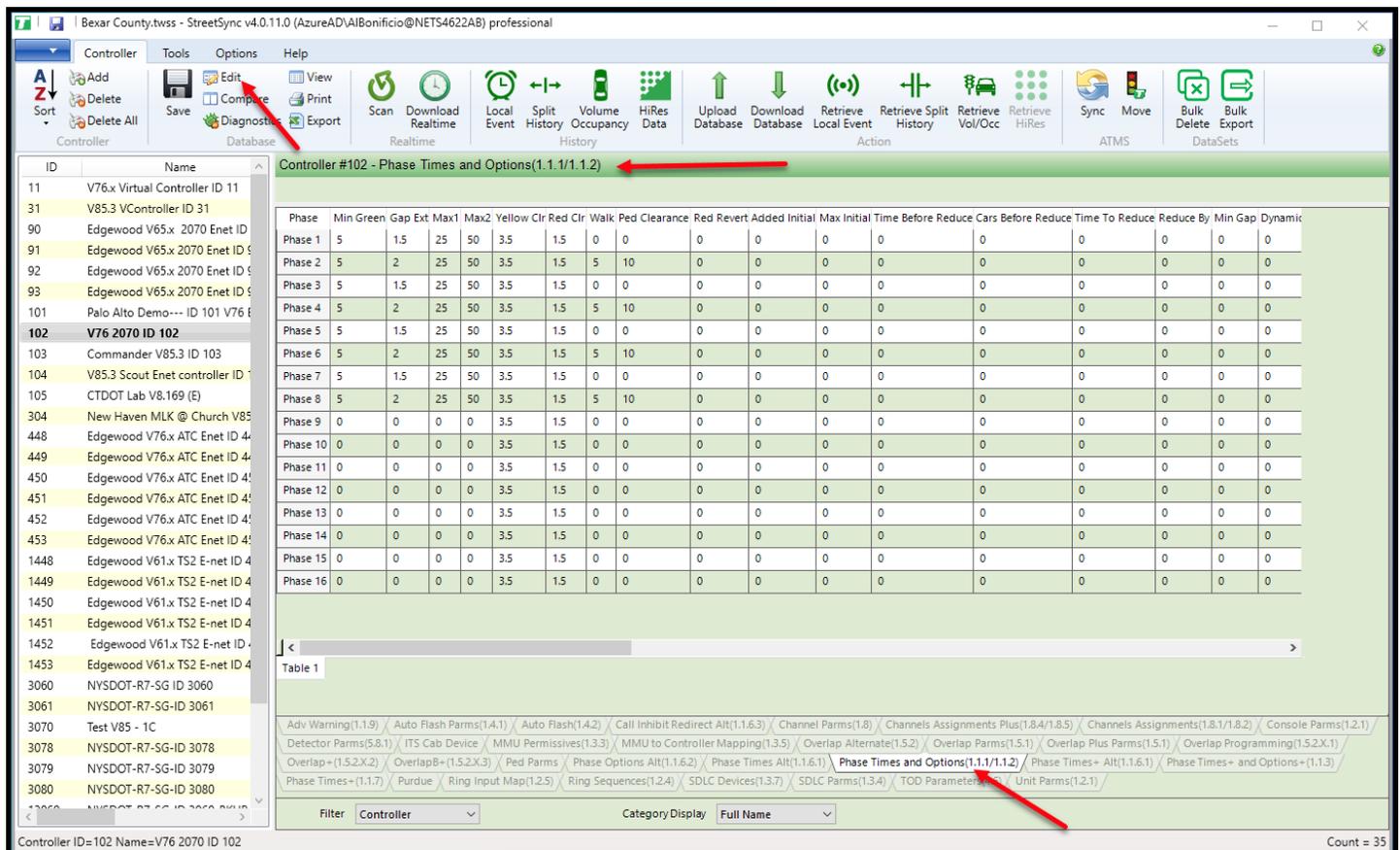


### Controller Menu



## Edit

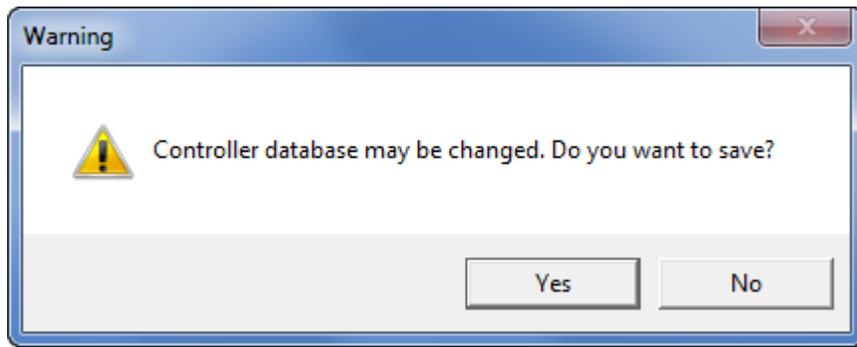
This selection allows the user to edit and modify data. The Save icon on the overview pane will be highlighted in Black when Edit is selected. StreetSync provides a database Filter for easy navigation to the specific database category of the selected database. The Filter categorizes the database according to the database categories provided in the controller. When a category is selected, the affiliated sub-categories will display in tabs within the window. If "All" is selected, every database tab will be displayed. The database tabs display and operate similar to Microsoft Excel.



**NOTE:** After editing data in a cell the user **MUST** click on another cell for the editing change to be saved to the StreetSync database. Press the Save icon when all changes have been completed. You will see a warning prompt that controller changes have been made. Do you wish to save Yes or No. (See **Save** section)

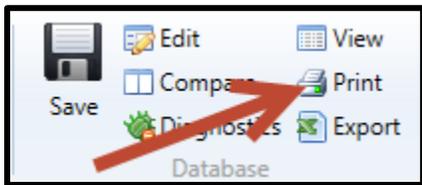
## Save

Once editing is complete, **Save** will write the changes to the database. After selecting **Save**, the following window will appear. Navigate to the Save Screen by clicking on another icon or menu item.



Selecting YES will save the database. All Data which is edited using StreetSync is saved on the /nazserv/data directory on the StreetSync PC. When editing is completed, the updated .PRM file is then time stamped.

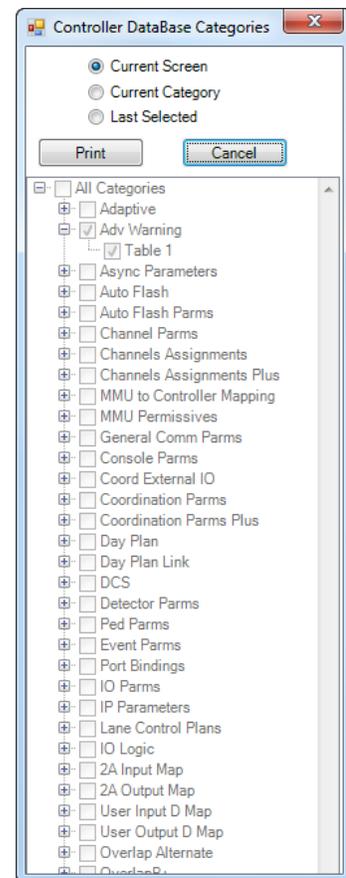
### Print



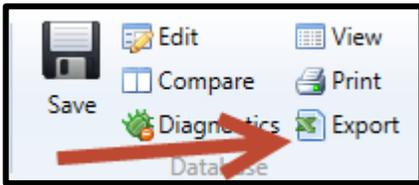
While you are still in the edit screen, the user may print out selected sheets via the **Print** command. This command will allow the user to select tabs to print out to a printer. When **Print** is selected a drop down menu appears as shown below.

The user can select which sheets to print out via the 3 radio buttons on the top of the screen.

- **Current Screen** will print the current screen being edited.
- **Current Category** will print the current screens under the category that is being edited.
- **Last Selected** will allow the user to select categories and/or screens to be printed including all screens.



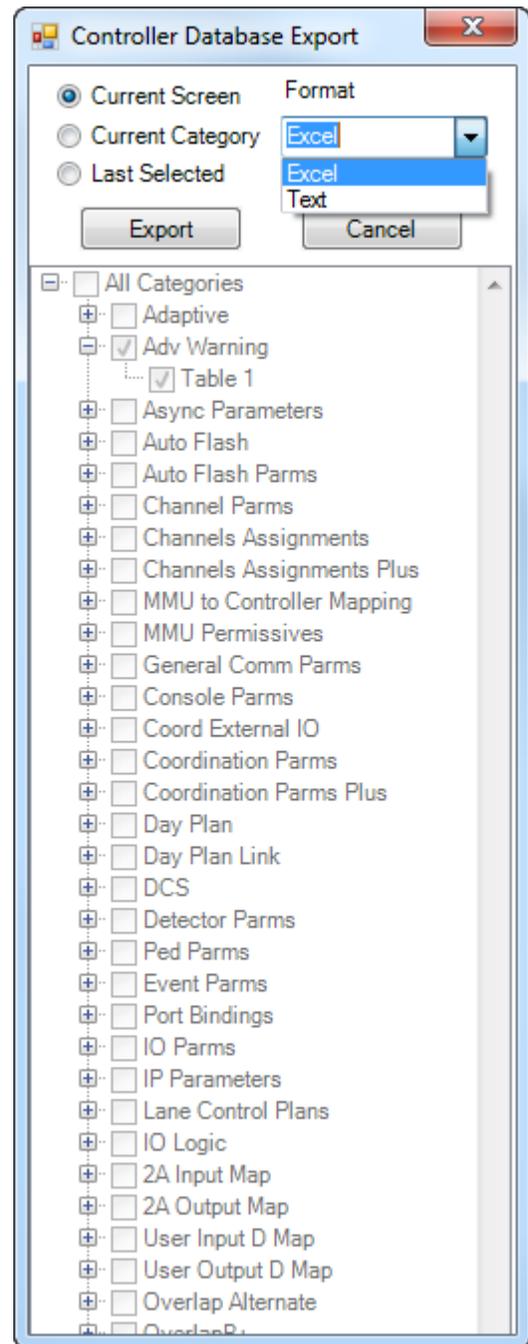
## Export



While in either the edit or View mode the user may export selected sheets via the **Export** command. This command will allow the user to select tabs to export to an Excel or a text file. When **Export** is selected a drop down menu appears as shown below.

The user can select which sheets to export out via the 3 radio buttons on the top of the screen.

- **Current Screen** will print the current screen being edited.
- **Current Category** will print the current screens under the category that is being edited.
- **Last Selected** will allow the user to select categories and/or screens to be printed including all screens.



## Compare

The user can compare the StreetSync database parameters with the controller's data. When accessing Compare, the Upload window will appear:

**NOTE: When comparing database user must not upload before compare. Uploading first will modify the data file.**

The screenshot shows the StreetSync software interface. The main window displays a list of controllers on the left and a detailed view of Controller #102 on the right. The Controller #102 view shows a table of phase parameters and a pop-up window titled "Ethernet: Upload Controller". The pop-up window contains the following information:

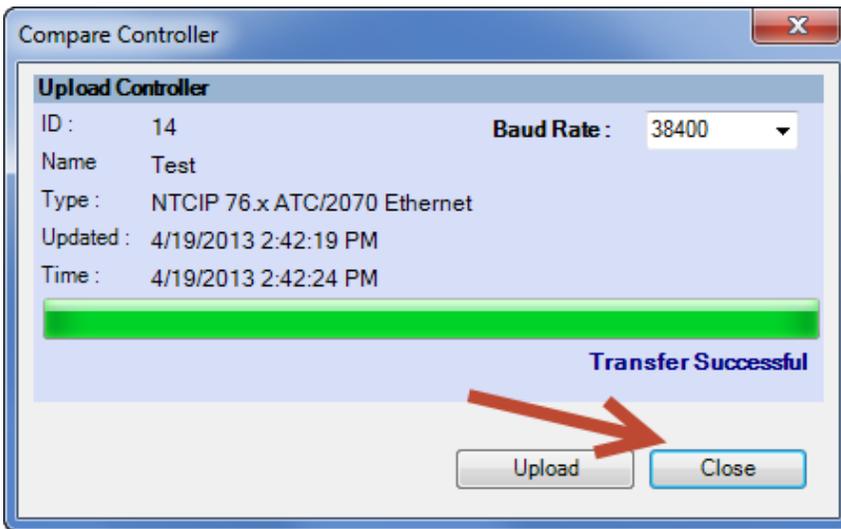
ID:	102
Name:	V76 2070 ID 102
Type:	NTCIP 76.x 2070 Ethernet
IP:	192.168.4.102
Port:	5102
Updated:	2/16/2023 2:57:09 PM
Time:	3/6/2023 4:00:04 PM

The pop-up window also features an "Upload" button and a "Close" button. A red arrow points to the "Upload" button. The main window also shows a "Compare" button in the top toolbar, which is highlighted with a red arrow.

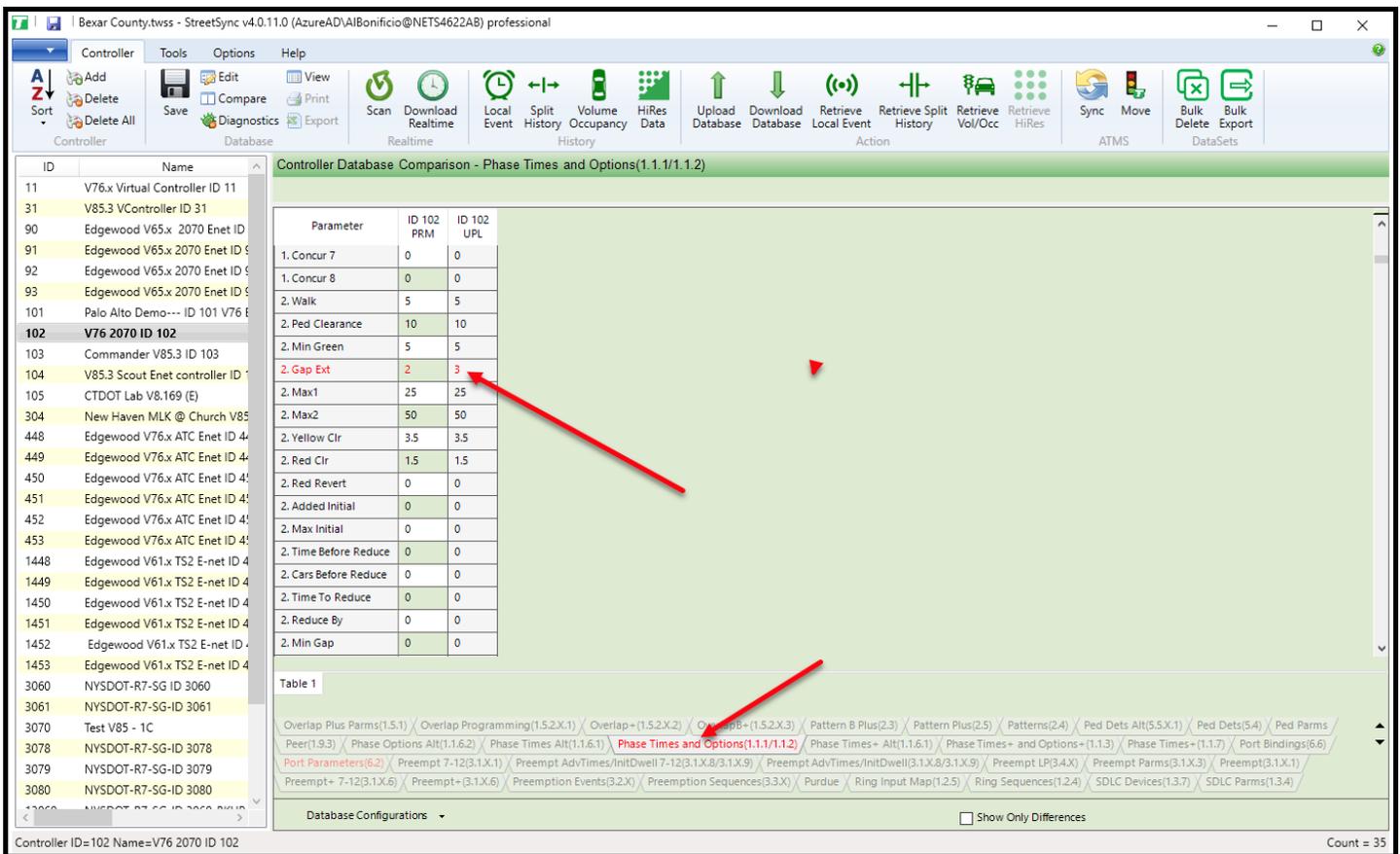
When using serial communications, you can select the proper BAUD Rate to match your controller's serial communications speed via the drop-down menu. When using IP communications, setting BAUD is not necessary. Hitting Upload will begin the process of uploading data.

**Note: If you are Editing and want to compare without being connected to a controller. Simply press Close on this screen and you will be prompted to save changes.**





Once the upload is completed, select Close and the following Database Compare screen will appear on the Overview Pane:

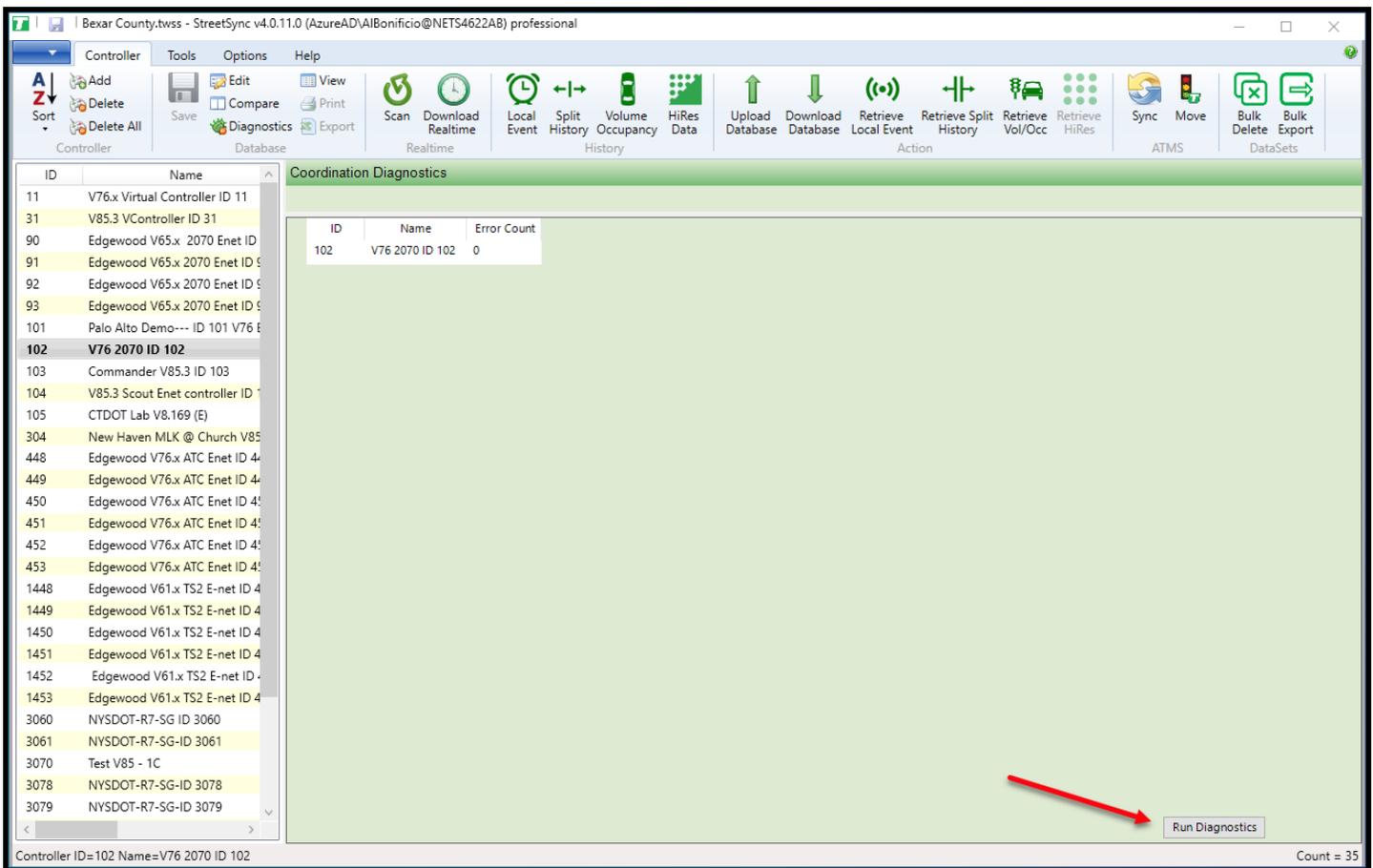


Differences are easily located and identified between the StreetSync database (PRM) and the uploaded database from the controller (UPL). Database differences are shown by color coding each database category tab and corresponding database parameter in **RED**. This will occur when a difference is present between the database types.

**Note: The user can make note of these differences and edit the database if needed. All changes will be prompted to save to the PRM. file before exiting.**

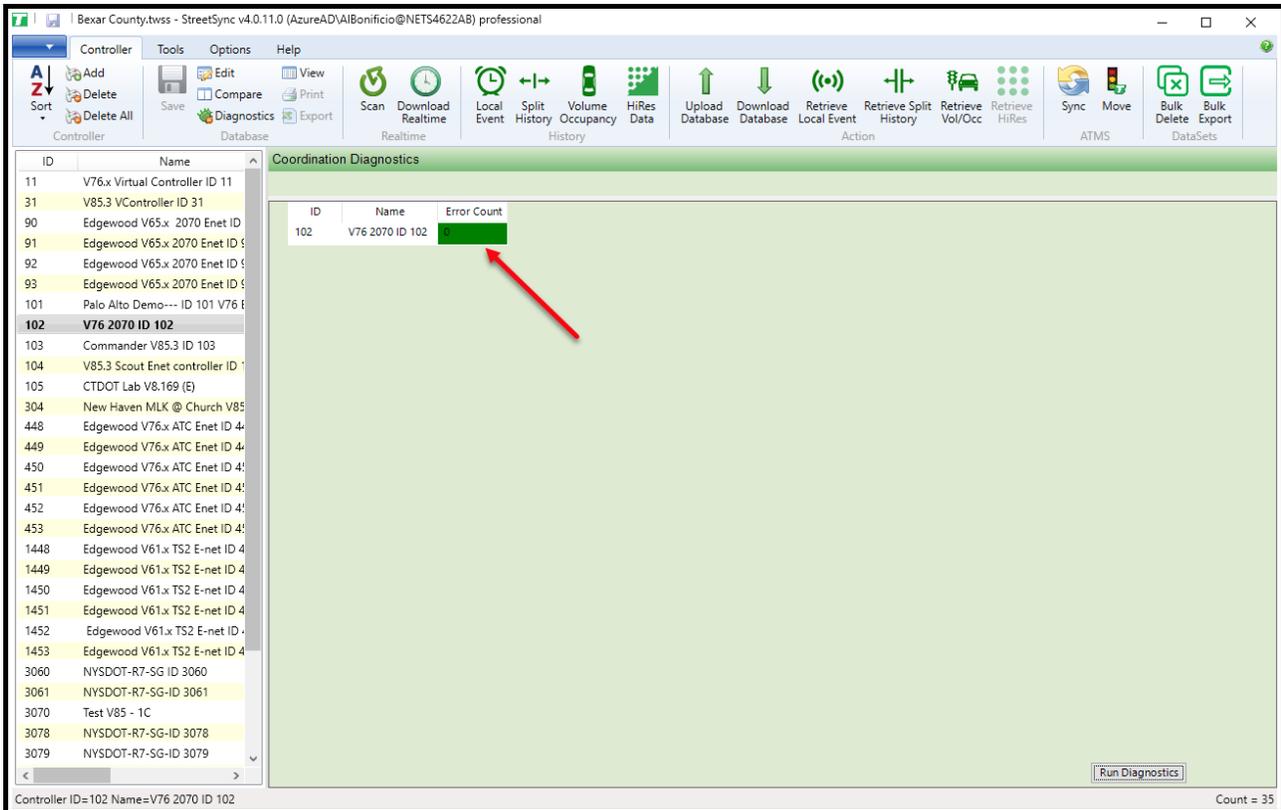
## Diagnostics

The Coordination Diagnostics feature enables the user to run coordination database checks prior to download or by uploading an active database to run a diagnostics from ATMS. Users can run diagnostics on .PRM databases from StreetSync. Once this is selected, the following screen will be shown.

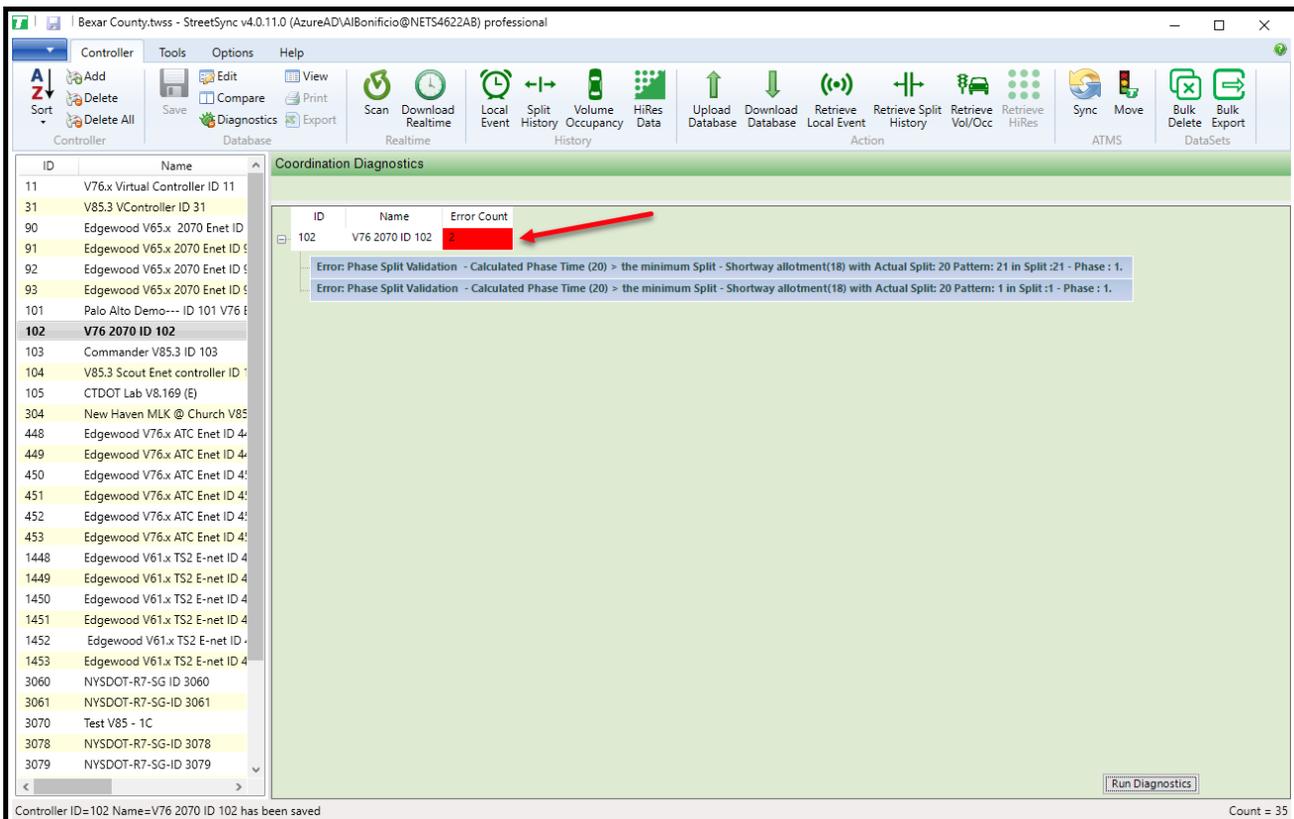


Select Run Diagnostics to run coordination diagnostics.

If the database passes the diagnostics check, the controller line will be highlighted GREEN as shown below

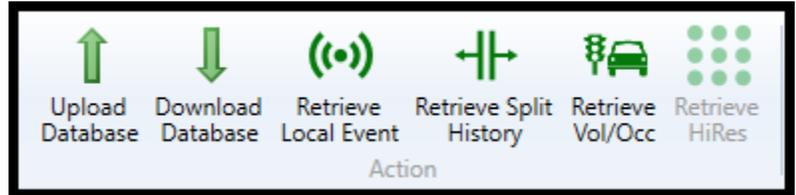


If a database does not pass the diagnostics, it will be highlighted in RED and each individual error will be described. In the picture below, the database has been found with an error.



## Action Section

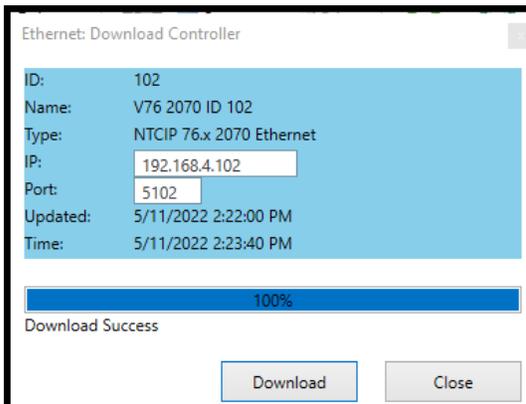
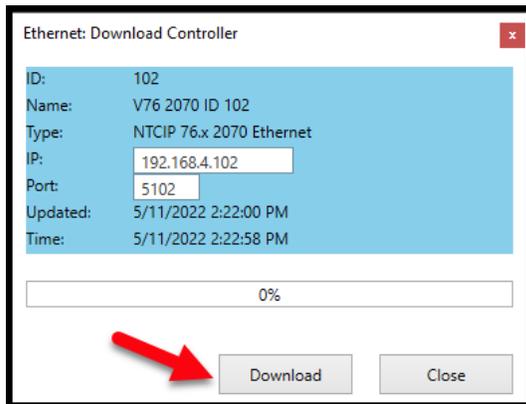
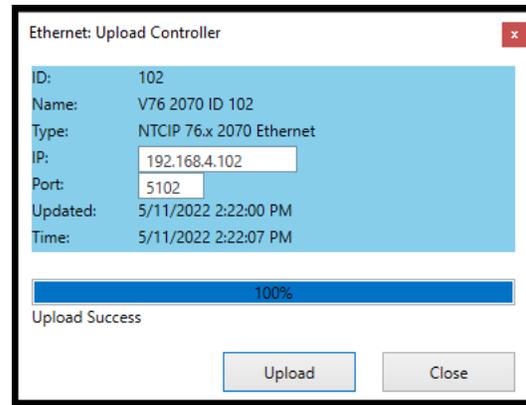
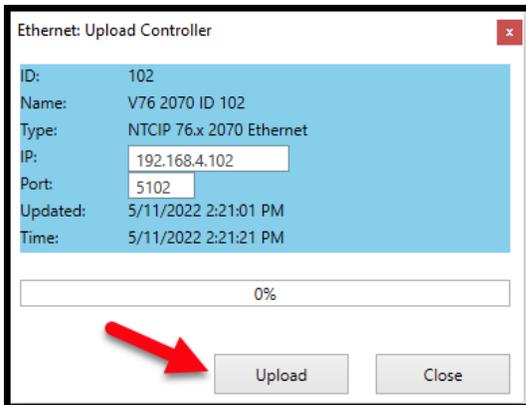
The Action menu will appear on the menu bar. All actions are “instance” actions, meaning that they are only enabled when a controller is selected.



## Upload / Download

The Upload / Download selections work the same way as in ATMS. The user selects a controller from the list, and then chooses the **Upload** or **Download** menu item. The app then displays the screen depicted below, indicating the selected controller. The user may then click either the **Upload** or **Download** menu item to transfer data between the device and the controller.

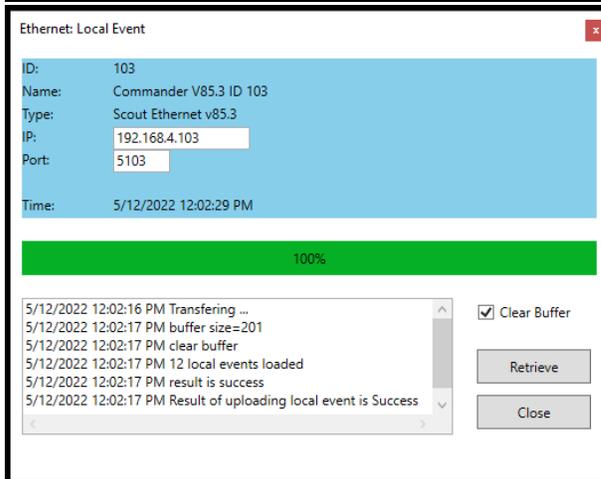
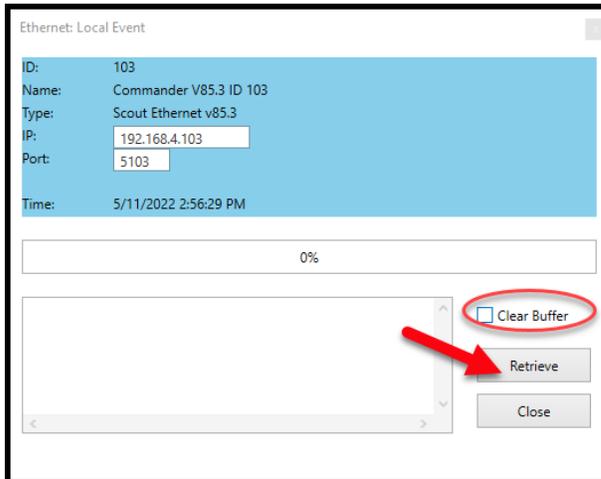
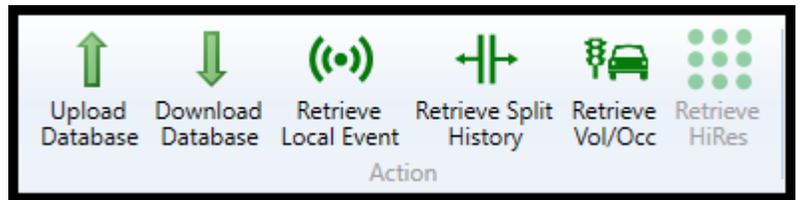
A screen will appear to allow the user to begin the Upload or Download. Select the action from the menu bar and the upload/download process will occur. A progress bar indicating how much of the laptop data has been transferred from (upload) or to (download) the controller. The user may cancel the operation at any time. When the Synchronization is complete, the progress bar displays **Upload Success or Download Success**. **Note: If Communications are interrupted or transfer times out, close the StreetSync app and re-open.**



**Note: Controllers using Patriot [V76.x] or Scout [V85.x] software can (and should) communicate using a direct connect Ethernet cable. See Options section of this manual for more information.**

## Retrieve Local Event

This selection will upload and display any selected local events (alarms) from the controller that were set in its database. Once selected the following screen will be displayed.



Selecting **Retrieve** will get the data from the Local event data. The Clear Buffer selection will clear the buffer in the controller after retrieving the data. Once the data is retrieved a report is generated on the overview pane which displays the data. There are four Local Event categories that can be displayed: Alarms, Patterns, Pre-emption and transit. Below is an Alarm data sample. If data needs to remain in the controller bin, simply uncheck Clear Buffer.

# Local Event

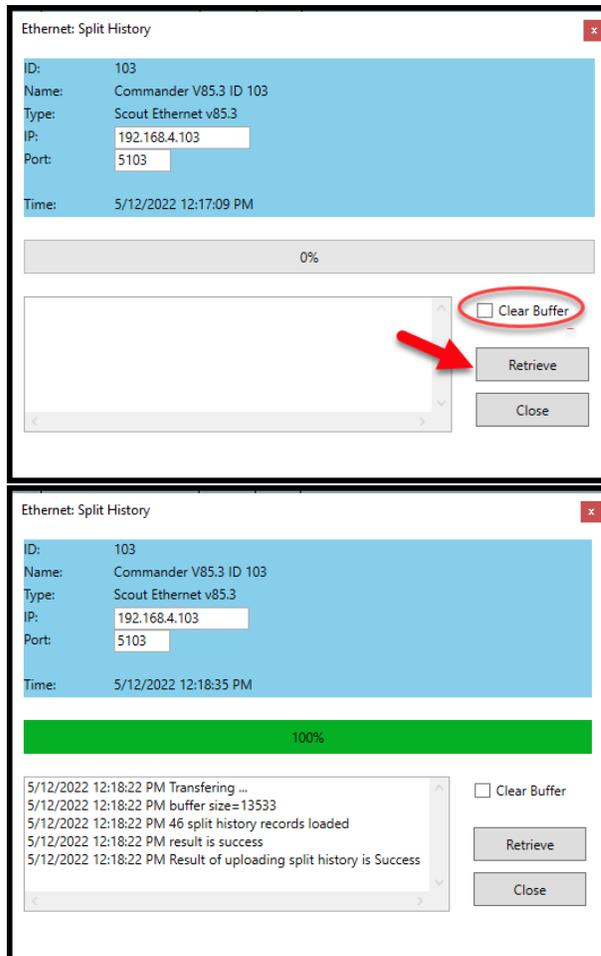
The screenshot shows the ATMS StreetSync software interface. The 'Local Event' window is open, displaying a list of events for Controller ID 103, Commander V85.3. The window has a menu bar (Controller, Tools, Options, Help) and a toolbar with various icons. The main area contains a table of events with columns for Time, #, Description, Status, and Data. A red circle highlights the 'Alarm', 'Pattern', 'Preempt', and 'Transit' tabs. A red arrow points to the 'Clear' button at the bottom right of the event list.

Time	#	Description	Status	Data
5/11/2022 6:05:21 AM	61	Coord in Transition	0	0
5/11/2022 5:05:00 PM	1	Power Up Alarm	0	0
5/12/2022 11:04:21 AM	1	Power Up Alarm	1	0
5/12/2022 11:04:21 AM	70	Internal Clock Jump	1	127
5/12/2022 11:04:22 AM	73	Controller Access	0	1
5/12/2022 11:04:22 AM	73	Controller Access	1	1
5/12/2022 11:04:23 AM	38	Pattern Change	1	1
5/12/2022 11:04:23 AM	47	Coord Active	1	15
5/12/2022 11:04:23 AM	61	Coord in Transition	1	1
5/12/2022 11:04:35 AM	73	Controller Access	1	1
5/12/2022 11:06:46 AM	61	Coord in Transition	0	0
5/12/2022 11:14:14 AM	73	Controller Access	0	1

Please note that Selecting **Clear** will clear the data from the StreetSync overview pane screen as well as the alarm buffer.

## Retrieve Split History

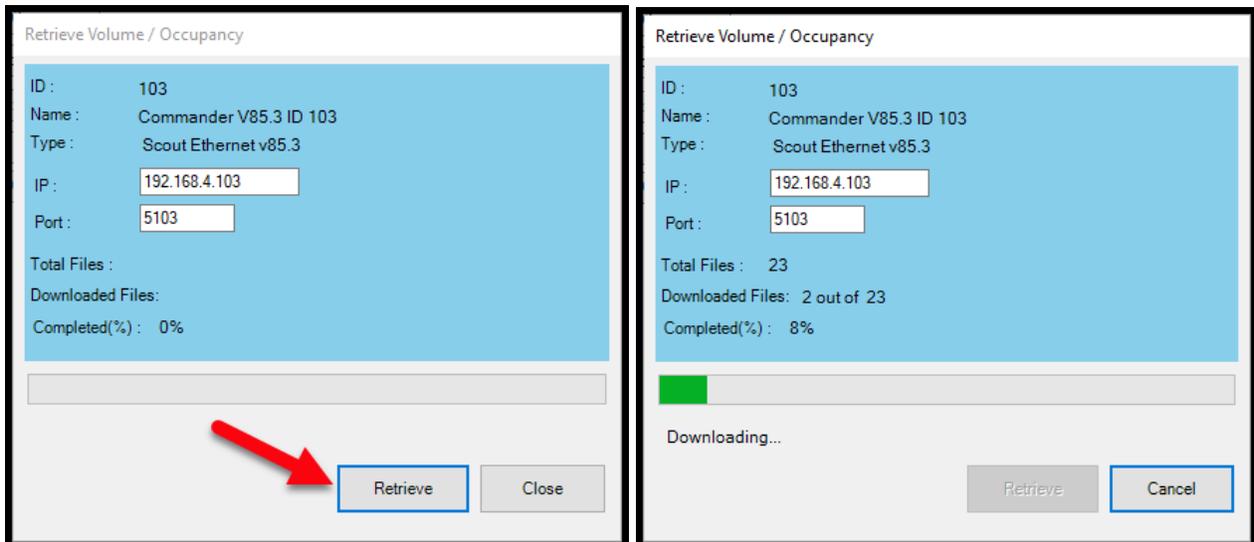
This selection will upload the current split history buffer data. Once selected the following screen will be displayed.



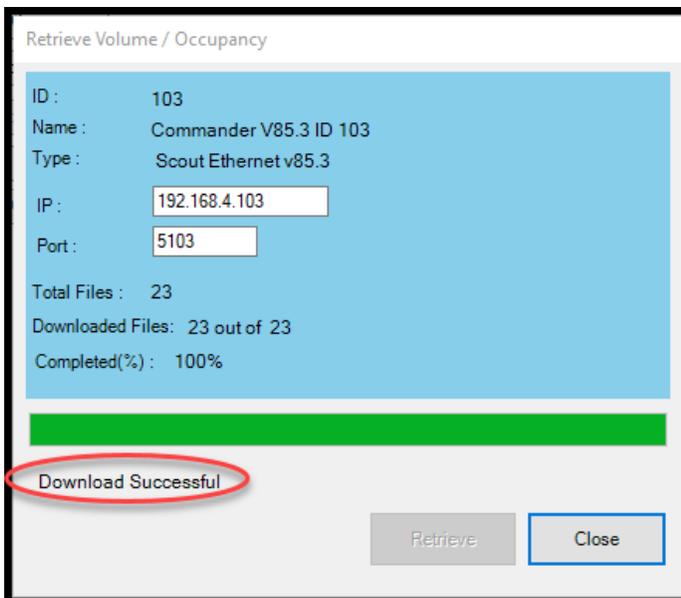
Selecting **Retrieve** will get the data from the Local event data. The Clear Buffer selection will clear the buffer in the controller after retrieving the data. Once the data is retrieved a report is generated. See the History Section below for details on the Split history report.

## Retrieve Vol/Occ

This selection will upload the current volume/occupancy buffer data. Once selected the following screen will be displayed.



The volume/occupancy data retrieval may take a few minutes depending on the time between downloads. Once completed the following screen will be displayed with the Message "Download Successful".



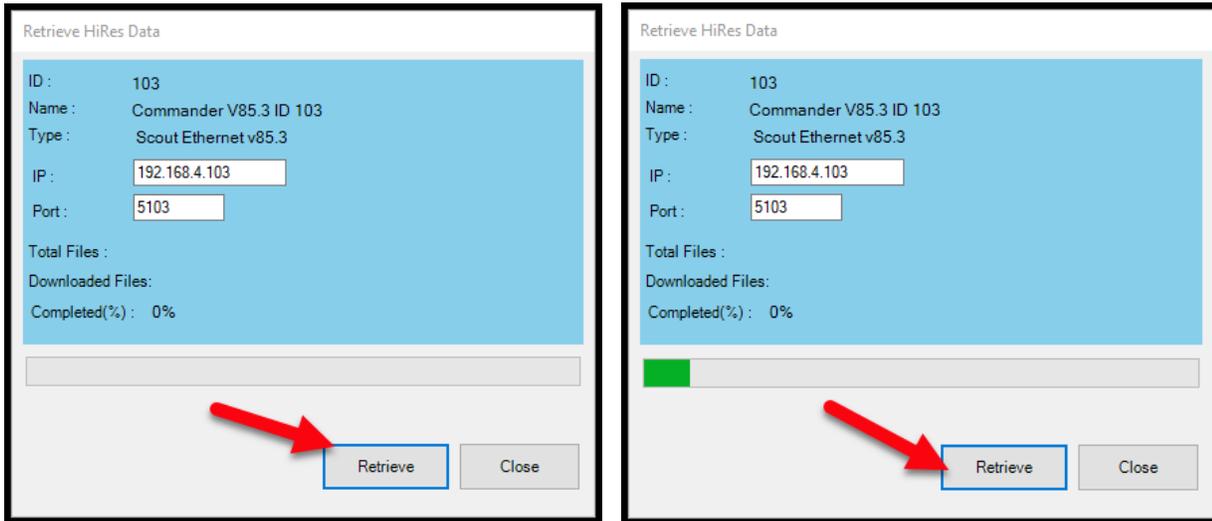
Once the data is retrieved a report is generated. See the History Section below for details on the Vol/Occ report.

## Retrieve HiRes

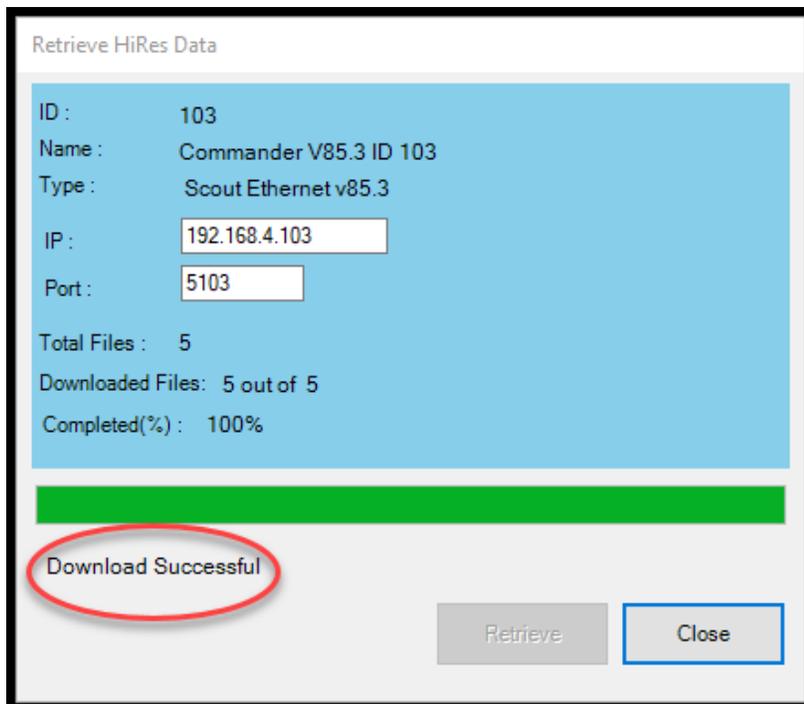
This selection will upload the current High-Resolution data if logging is turned on in the controller.

**Note: Retrieving and displaying High Resolution Data in StreetSync is only available on Scout/V85.x controllers.**

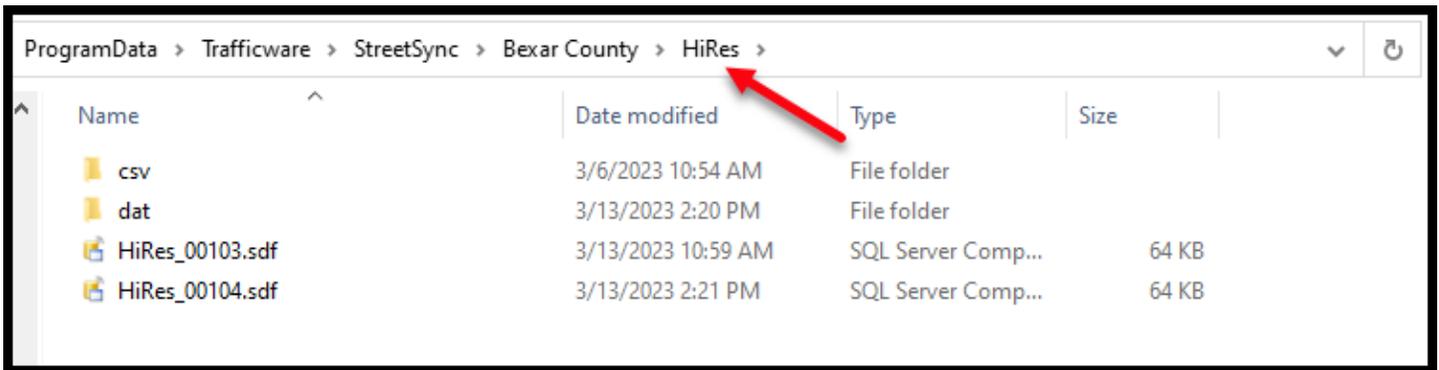
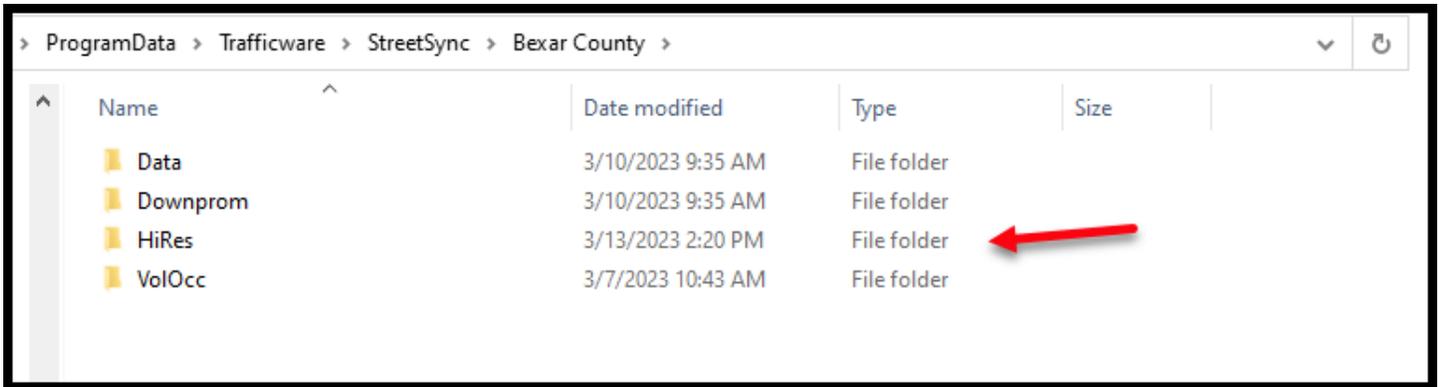
Once selected the following screen will be displayed.



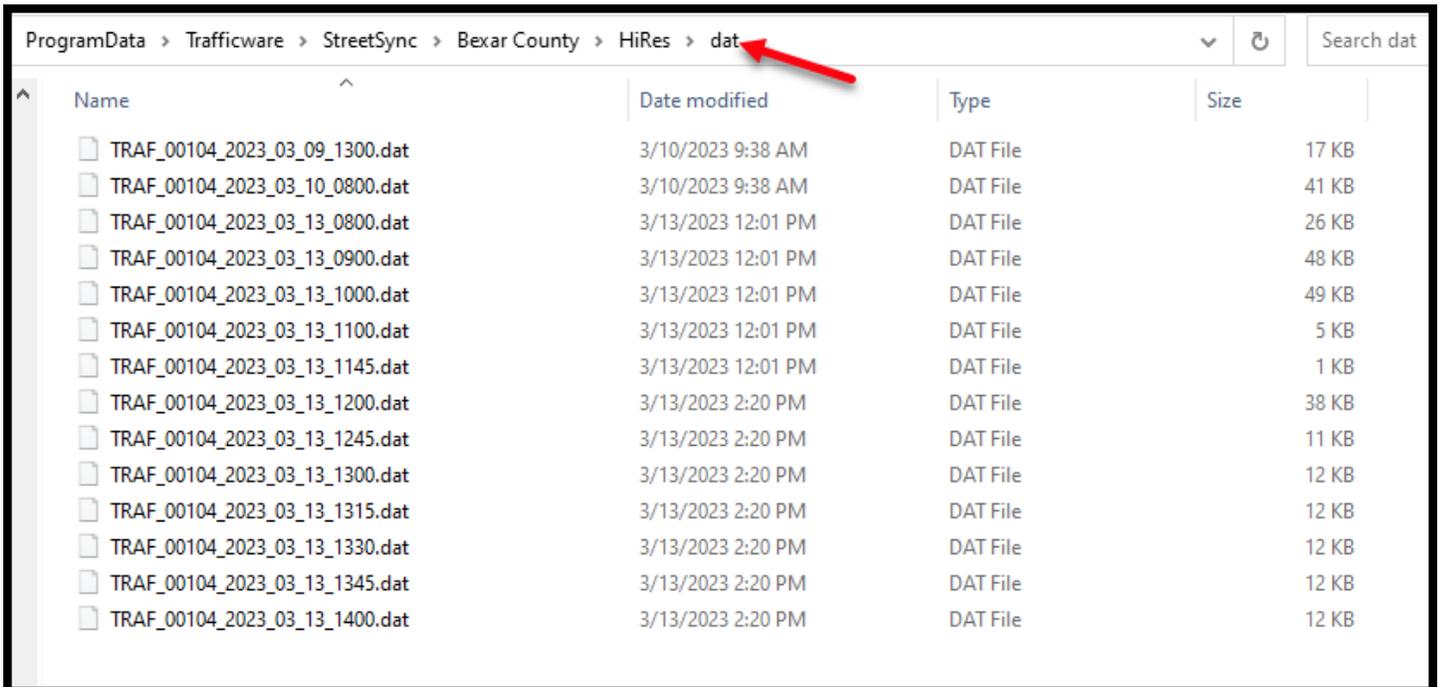
The High-Resolution data retrieval may take a few minutes depending on the time between downloads. Once completed the following screen will be displayed with the Message “Download Successful”.



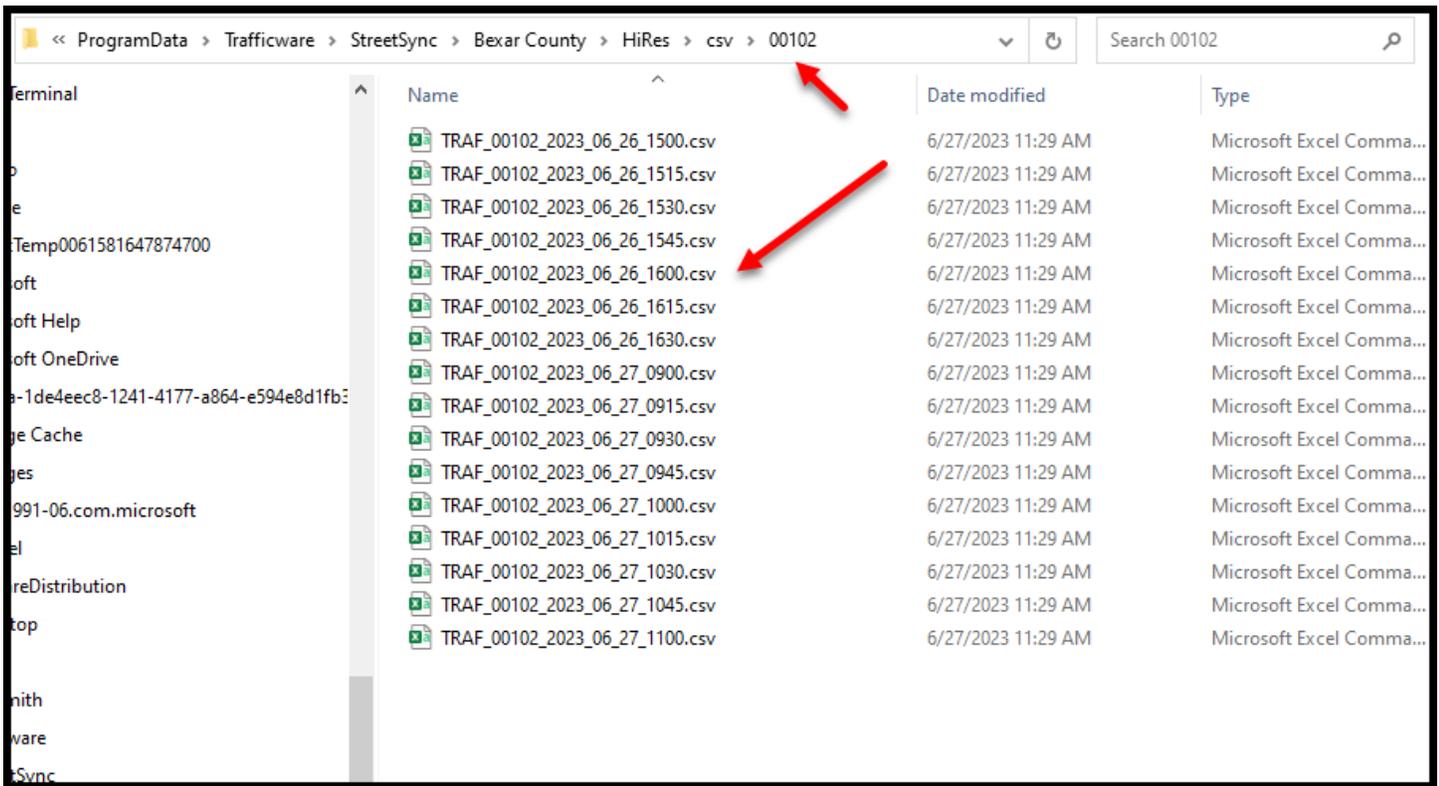
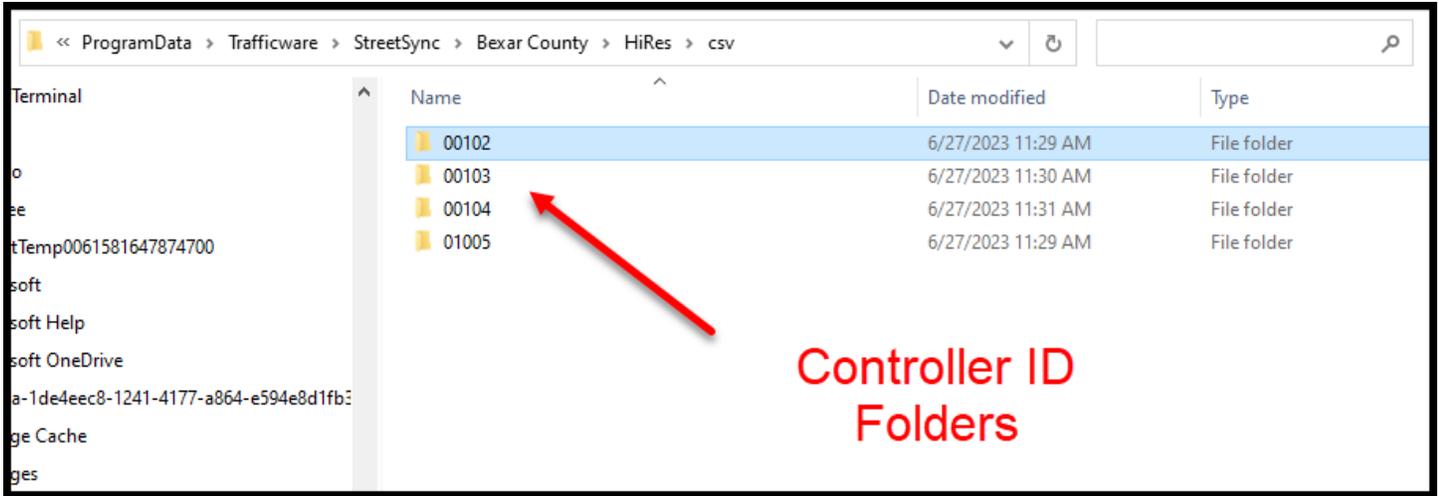
High resolution data is found on the hard drive under the Program Data directory's Trafficware folder as shown below. See **Open File Location**



The **.dat** folder contains the imported raw high-resolution data as per the Purdue specification



The .csv folder will contain the exported high-resolution data by controller id as shown below:



## High Resolution Data

This selection will display the High Resolution (Purdue Enumeration values) retrieved data. Below is a sample:

	Time	Event	Code	Data	
1	06/26/2023 16:02:28.400	Phase On	0	4	
2	06/26/2023 16:02:28.400	Phase On	0	8	
3	06/26/2023 16:02:28.400	Phase Begin Green	1	4	
4	06/26/2023 16:02:28.400	Phase Begin Green	1	8	
5	06/26/2023 16:02:28.400	Phase Check	2	1	
6	06/26/2023 16:02:28.400	Phase Check	2	2	
7	06/26/2023 16:02:28.400	Phase Check	2	3	
8	06/26/2023 16:02:28.400	Phase Check	2	5	
9	06/26/2023 16:02:28.400	Phase Check	2	6	
10	06/26/2023 16:02:28.400	Phase Check	2	7	
11	06/26/2023 16:02:28.400	Extension Timer Reduction St	15	4	
12	06/26/2023 16:02:28.400	Extension Timer Reduction St	15	8	
13	06/26/2023 16:02:28.400	Pedestrian Begin Solid Don't	23	2	
14	06/26/2023 16:02:28.400	Pedestrian Begin Solid Don't	23	4	
15	06/26/2023 16:02:28.400	Pedestrian Begin Solid Don't	23	6	
16	06/26/2023 16:02:28.400	Pedestrian Begin Solid Don't	23	8	
17	06/26/2023 16:02:28.400	Phase Call Registered	43	1	
18	06/26/2023 16:02:28.400	Phase Call Registered	43	2	
19	06/26/2023 16:02:28.400	Phase Call Registered	43	3	
20	06/26/2023 16:02:28.400	Phase Call Registered	43	5	
21	06/26/2023 16:02:28.400	Phase Call Registered	43	6	
22	06/26/2023 16:02:28.400	Phase Call Registered	43	7	
23	06/26/2023 16:02:28.400	Phase Omit On	46	1	
24	06/26/2023 16:02:28.400	Phase Omit On	46	2	
25	06/26/2023 16:02:28.400	Phase Omit On	46	3	
26	06/26/2023 16:02:28.400	Phase Omit On	46	4	
27	06/26/2023 16:02:28.400	Phase Omit On	46	5	
28	06/26/2023 16:02:28.400	Phase Omit On	46	6	
29	06/26/2023 16:02:28.400	Phase Omit On	46	7	
30	06/26/2023 16:02:28.400	Phase Omit On	46	8	
31	06/26/2023 16:02:28.400	Phase Omit On	46	17	
32	06/26/2023 16:02:28.400	Phase Omit On	46	18	
33	06/26/2023 16:02:28.400	Phase Omit On	46	19	
34	06/26/2023 16:02:28.400	Phase Omit On	46	20	
35	06/26/2023 16:02:28.400	Phase Omit On	46	21	

Filter

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Export

Delete

Delete All

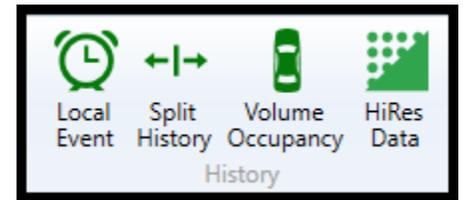
Count = 44

By using the selection buttons, circled on the right, the user can navigate between multiple pages, filter, export or delete data. Please refer to the Local Event section for further information.

**Note: Retrieving and displaying High Resolution Data in StreetSync is only available on V76.x or Scout/V85.x controllers.**

## History Section

The Real time section allows the user to update the clock time for a controller or to scan a connected controller to view Red/Yellow/Green status. Note that for this version, any printout of data must be done via standard Windows screen printing.



## Local Event

This selection will display the retrieved Local event data. There are four Local Event categories that can be displayed: Alarms, Patterns, Pre-emption and transit. Below is an Alarm data sample.

Time	#	Description	Status	Data
3/7/2023 9:16:24 AM	47	Coord Active	1	15
3/7/2023 9:16:24 AM	61	Coord in Transition	1	1
3/7/2023 9:16:29 AM	48	Preempt Active	0	0
3/7/2023 9:16:29 AM	49	HP Preempt 1	0	0
3/7/2023 9:16:32 AM	73	Controller Access	1	1
3/7/2023 9:23:48 AM	73	Controller Access	0	1
3/7/2023 9:23:50 AM	73	Controller Access	1	1
3/7/2023 9:24:05 AM	61	Coord in Transition	0	0
3/7/2023 9:24:24 AM	61	Coord in Transition	1	1
3/7/2023 9:24:24 AM	70	Internal Clock Jump	1	3
3/7/2023 9:24:38 AM	61	Coord in Transition	0	0
3/7/2023 9:25:00 AM	38	Pattern Change	1	1
3/7/2023 9:25:00 AM	61	Coord in Transition	1	2
3/7/2023 9:28:54 AM	61	Coord in Transition	0	0
3/7/2023 9:33:47 AM	73	Controller Access	0	1
3/7/2023 9:51:49 AM	61	Coord in Transition	1	2
3/7/2023 9:53:09 AM	61	Coord in Transition	0	0

Filter

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Export

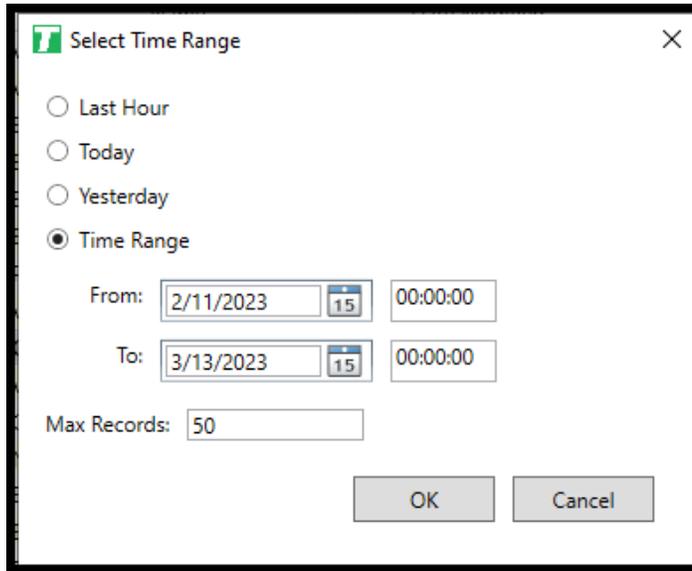
Delete

Delete All

Count = 35

By using the selection buttons, circled on the right, the user can navigate between multiple pages, filter, export or delete data.

Selecting the **Filter** Button will allow the user to filter the results by a selected timeframe that is shown on the screen below:



When selecting **Time Range**, the user can modify the maximum displayed records via the **Max Records** entry.

Navigation between multiple pages of data is done using the **First Page**, **Prev Page**, **Next Page** or **Last Page** buttons.

The **Export** button will allow the user to export the data as a .csv file to the hard disk of their PC, tablet or laptop.

The **Delete** and **Delete All** buttons will delete the retrieved data screen or all associated data with the displayed report.

The user can select individual rows of data to be deleted using the delete button as shown below using Vol/Occ data.

	Time	Interval	V1	V2	V3	V4	V5	V6	V7	V8	O1	O2	O3
1	2/21/2023 7:29:15 AM	369	369	369	369	369	369	369	369	369	41	41	41
2	2/21/2023 7:30:03 AM	48	48	48	48	48	48	48	48	48	5	5	5
3	2/21/2023 7:45:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
4	2/21/2023 8:00:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
5	2/21/2023 8:15:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
6	2/21/2023 8:30:04 AM	900	900	900	900	900	900	900	900	900	100	100	100
7	2/21/2023 8:45:03 AM	99	99	99	99	99	99	99	99	99	99	99	99
8	2/21/2023 9:15:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
9	2/21/2023 9:30:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
10	2/21/2023 9:45:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
11	2/21/2023 10:00:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
12	2/21/2023 10:15:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
13	2/21/2023 10:30:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
14	2/21/2023 10:45:04 AM	900	900	900	900	900	900	900	900	900	100	100	100
15	2/21/2023 11:00:03 AM	899	899	899	899	899	899	899	899	899	99	99	99
16	2/21/2023 11:15:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
17	2/21/2023 11:30:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
18	2/21/2023 11:45:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
19	2/21/2023 12:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
20	2/21/2023 12:15:04 PM	900	900	900	900	900	900	900	900	900	100	100	100
21	2/21/2023 12:30:03 PM	899	899	899	899	899	899	899	899	899	99	99	99
22	2/21/2023 12:45:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
23	2/21/2023 1:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
24	2/21/2023 1:15:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
25	2/21/2023 1:30:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
26	2/21/2023 1:45:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
27	2/21/2023 2:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
28	2/21/2023 2:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100

In the example above, Row 2 (data at 7:30 am) has been selected. Once the delete key is hit a warning message will be displayed.

	Time	Interval	V1	V2	V3	V4	V5	V6	V7	V8	O1	O2	O3
1	2/21/2023 7:29:15 AM	369	369	369	369	369	369	369	369	369	41	41	41
2	2/21/2023 7:30:03 AM	48	48	48	48	48	48	48	48	48	5	5	5
3	2/21/2023 7:45:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
4	2/21/2023 8:00:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
5	2/21/2023 8:15:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
6	2/21/2023 8:30:04 AM	900	900	900	900	900	900	900	900	900	100	100	100
7	2/21/2023 8:45:03 AM	899	899	899	899	899	899	899	899	899	99	99	99
8	2/21/2023 9:00:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
9	2/21/2023 9:15:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
10	2/21/2023 9:30:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
11	2/21/2023 9:45:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
12	2/21/2023 10:00:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
13	2/21/2023 10:15:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
14	2/21/2023 10:30:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
15	2/21/2023 10:45:04 AM	900	900	900	900	900	900	900	900	900	100	100	100
16	2/21/2023 11:00:03 AM	899	899	899	899	899	899	899	899	899	99	99	99
17	2/21/2023 11:15:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
18	2/21/2023 11:30:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
19	2/21/2023 11:45:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
20	2/21/2023 12:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
21	2/21/2023 12:15:04 PM	900	900	900	900	900	900	900	900	900	100	100	100
22	2/21/2023 12:30:03 PM	899	899	899	899	899	899	899	899	899	99	99	99
23	2/21/2023 12:45:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
24	2/21/2023 1:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
25	2/21/2023 1:15:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
26	2/21/2023 1:30:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
27	2/21/2023 1:45:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
28	2/21/2023 2:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100

Warning

Are you sure you want to delete selected volume/occupancy records for controller(s):103?

Legends  
P: Pedestrian  
V: Volume  
O: Occupancy

Filter

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Export

Delete

Delete All

5.3 ID 103 Count = 35

Once the user selects Yes... then row 2 will be deleted.

	Time	Interval	V1	V2	V3	V4	V5	V6	V7	V8	O1	O2	O3
1	2/21/2023 7:29:15 AM	369	369	369	369	369	369	369	369	369	41	41	41
2	2/21/2023 7:45:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
3	2/21/2023 8:00:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
4	2/21/2023 8:15:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
5	2/21/2023 8:30:04 AM	900	900	900	900	900	900	900	900	900	100	100	100
6	2/21/2023 8:45:03 AM	899	899	899	899	899	899	899	899	899	99	99	99
7	2/21/2023 9:00:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
8	2/21/2023 9:15:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
9	2/21/2023 9:30:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
10	2/21/2023 9:45:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
11	2/21/2023 10:00:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
12	2/21/2023 10:15:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
13	2/21/2023 10:30:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
14	2/21/2023 10:45:04 AM	900	900	900	900	900	900	900	900	900	100	100	100
15	2/21/2023 11:00:03 AM	899	899	899	899	899	899	899	899	899	99	99	99
16	2/21/2023 11:15:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
17	2/21/2023 11:30:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
18	2/21/2023 11:45:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
19	2/21/2023 12:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
20	2/21/2023 12:15:04 PM	900	900	900	900	900	900	900	900	900	100	100	100
21	2/21/2023 12:30:03 PM	899	899	899	899	899	899	899	899	899	99	99	99
22	2/21/2023 12:45:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
23	2/21/2023 1:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
24	2/21/2023 1:15:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
25	2/21/2023 1:30:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
26	2/21/2023 1:45:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
27	2/21/2023 2:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
28	2/21/2023 2:15:03 PM	900	900	900	900	900	900	900	900	900	100	100	100

Legends  
P: Pedestrian  
V: Volume  
O: Occupancy

Filter

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Export

Delete

Delete All

5.3 ID 103 Count = 35

Delete All will delete the entire dataset.

## Split History

This selection will display the retrieved Split History data. The split times per phase are displayed as well as the reason for termination. Below is a Split History data sample.

	Time	NBR	Pattern	Cycle	Offset	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
1	3/6/2023 4:44:16 PM	0	254	53	0	28/U	25/U			28/U	25/U		
2	3/7/2023 9:01:39 AM	1	21	100	0	20/U	30/U	20/U	30/U	20/U	30/U	20/U	30/U
3	3/7/2023 9:03:19 AM	2	21	99	0	20/U	30/U	28/U	21/U	20/U	30/U	19/U	30/U
4	3/7/2023 9:04:59 AM	3	21	102	2	20/U	32/U	25/U	25/U	20/U	32/U	20/U	30/U
5	3/7/2023 9:06:41 AM	4	21	82	2	16/U	25/U	21/U	20/U	16/U	25/U	17/U	24/U
6	3/7/2023 9:08:03 AM	5	21	85	2	16/U	29/U	20/U	20/U	16/U	29/U	16/U	24/U
7	3/7/2023 9:09:29 AM	6	21	85	74	16/U	27/U	21/U	21/U	16/U	27/U	18/U	24/U
8	3/7/2023 9:10:54 AM	7	21	90	21	18/U	29/U	22/U	21/U	18/U	29/U	19/U	24/U
9	3/7/2023 9:12:24 AM	8	21	94	57	19/U	29/U	24/U	22/U	19/U	29/U	21/U	25/U
10	3/7/2023 9:13:58 AM	9	21	98	17	21/U	29/U	24/U	24/U	21/U	29/U	23/U	25/U
11	3/7/2023 9:15:37 AM	10	21	32	68		6/U	10/U	16/U		6/U	10/U	16/U
12	3/7/2023 9:16:09 AM	11	254	92	68	19/U	46/U		27/U	19/U	46/U		27/U
13	3/7/2023 9:17:41 AM	12	21	96	56	22/U	32/U	20/U	22/U	22/U	32/U	18/U	24/U
14	3/7/2023 9:19:17 AM	13	21	99	84	22/U	33/U	20/U	24/U	22/U	33/U	19/U	25/U
15	3/7/2023 9:20:56 AM	14	21	119	84	24/U	35/U	33/U	26/U	24/U	35/U	32/U	27/U
16	3/7/2023 9:22:55 AM	15	254	91	84	30/U	32/U		29/U	30/U	32/U		29/U
17	3/7/2023 9:25:00 AM	16	1	99	84	22/U	33/U	18/U	26/U	22/U	33/U	18/U	26/U
18	3/7/2023 9:26:39 AM	17	1	98	84	22/U	32/U	18/U	26/U	22/U	32/U	18/U	26/U
19	3/7/2023 9:28:17 AM	18	1	104	84	24/U	35/U	20/U	25/U	24/U	35/U	20/U	25/U
20	3/7/2023 9:30:01 AM	19	1	109	84	24/U	36/U	23/U	26/U	24/U	36/U	23/U	26/U
21	3/7/2023 9:31:50 AM	20	1	109	84	24/U	34/U	24/U	27/U	24/U	34/U	24/U	27/U
22	3/7/2023 9:33:39 AM	21	1	109	84	24/U	34/U	24/U	27/U	24/U	34/U	24/U	27/U
23	3/7/2023 9:35:28 AM	22	1	109	84	24/U	34/U	24/U	27/U	24/U	34/U	24/U	27/U
24	3/7/2023 9:37:17 AM	23	1	109	84	24/U	34/U	24/U	27/U	24/U	34/U	24/U	27/U
25	3/7/2023 9:39:06 AM	24	1	109	84	24/U	34/U	24/U	27/U	24/U	34/U	24/U	27/U
26	3/7/2023 9:40:55 AM	25	1	109	84	24/U	33/U	24/U	28/U	24/U	33/U	24/U	28/U
27	3/7/2023 9:42:44 AM	26	1	109	84	24/U	33/U	24/U	28/U	24/U	33/U	24/U	28/U

Legends

U: Unknown

G: Gap out

M: Max out

F: Force Off

Filter

First Page

Prev Page

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Last Page

Export

Delete

Delete All

Count = 35

By using the selection buttons, circled on the right, the user can navigate between multiple pages, filter, export or delete data. Please refer to the Local Event section for further information.

## Volume /Occupancy

This selection will display the retrieved Volume / Occupancy/Pedestrian data. The volume, occupancy and pedestrian actuations for each detector that is used and tracked is displayed. Below is a Vol/Occ data sample.

	Time	Interval	V1	V2	V3	V4	V5	V6	V7	V8	O1	O2	O3
1	12/7/2022 8:38:33 AM	485	485	485	485	485	485	485	485	485	53	53	53
2	12/7/2022 8:45:03 AM	390	390	390	390	390	390	390	390	390	43	43	43
3	12/7/2022 9:00:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
4	12/7/2022 9:15:04 AM	900	900	900	900	900	900	900	900	900	100	100	100
5	12/7/2022 9:30:03 AM	899	899	899	899	899	899	899	899	899	99	99	99
6	12/7/2022 9:45:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
7	12/7/2022 10:00:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
8	12/7/2022 10:15:04 AM	900	900	900	900	900	900	900	900	900	100	100	100
9	12/7/2022 10:30:03 AM	899	899	899	899	899	899	899	899	899	99	99	99
10	12/7/2022 10:45:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
11	12/7/2022 11:00:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
12	12/7/2022 11:15:04 AM	900	900	900	900	900	900	900	900	900	100	100	100
13	12/7/2022 11:30:03 AM	899	899	899	899	899	899	899	899	899	99	99	99
14	12/7/2022 11:45:03 AM	900	900	900	900	900	900	900	900	900	100	100	100
15	12/7/2022 12:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
16	12/7/2022 12:15:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
17	12/7/2022 12:30:04 PM	900	900	900	900	900	900	900	900	900	100	100	100
18	12/7/2022 12:45:03 PM	899	899	899	899	899	899	899	899	899	99	99	99
19	12/7/2022 1:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
20	12/7/2022 1:15:04 PM	900	900	900	900	900	900	900	900	900	100	100	100
21	12/7/2022 1:30:03 PM	899	899	899	899	899	899	899	899	899	99	99	99
22	12/7/2022 1:45:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
23	12/7/2022 2:00:03 PM	900	900	900	900	900	900	900	900	900	100	100	100
24	12/7/2022 2:15:04 PM	900	900	900	900	900	900	900	900	900	100	100	100
25	12/7/2022 2:30:03 PM	899	899	899	899	899	899	899	899	899	99	99	99
26	12/7/2022 2:45:03 PM	900	900	900	900	900	900	900	900	900	100	100	100

Legends  
 P: Pedestrian  
 V: Volume  
 O: Occupancy

Filter

First Page

Prev Page

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Last Page

Export

Delete

Delete All

Count = 35

By using the selection buttons, circled on the right, the user can navigate between multiple pages, filter, export or delete data. Please refer to the Local Event section for further information.

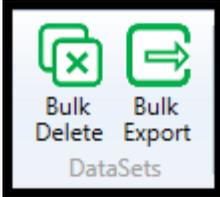
## Bulk Exporting and Deleting of Retrieved Data

Users can export or delete retrieved data in bulk in one of two ways.

The first way is to **select multiple intersections on the left column.** and Right-click to get to the export menu as shown below.

The screenshot displays a table of intersection data with columns for ID and Name. A context menu is open over the table, listing various actions. The 'Export Data' option is highlighted with a blue selection bar and a red circle. Two red arrows point to the 'Export Data' option from the left. To the right of the table, a form displays details for the selected intersection (ID 53):

ID	Name	Type	Date Modified	IP
53	City of Loveland Test V76	Scout Ethernet v8	7/18/2023 9:25:45	10.10.10.65:5001



The second way is select via the **Datasets** section allows the user to Bulk Export or Bulk Delete all selected data for all intersections.

Below is a screen showing the bulk export of data of 3 selected controllers.

ID	Name	Date Modified	Type
11	V76.x Virtual Controller ID 11	3/10/2023 9:35:23 AM	v76 Ethernet Virtual Controller
31	V85.3 VController ID 31	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
90	Edgewood V65.x 2070 Enet ID 90	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
91	Edgewood V65.x 2070 Enet ID 91	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
92	Edgewood V65.x 2070 Enet ID 92	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
93	Edgewood V65.x 2070 Enet ID 93	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
101	Palo Alto Demo--- ID 101 V76 E-net	3/10/2023 9:35:23 AM	NTCIP 76.x 2070 Ethernet
102	V76 2070 ID 102	3/10/2023 9:35:23 AM	NTCIP 76.x 2070 Ethernet
103	Commander V85.3 ID 103	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
104	V85.3 Scout Enet controller ID 104	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
105	CTDOT Lab V8.169 (E)		Scout Ethernet
304	New Haven MLK @ Church V85.1		Scout Ethernet
448	Edgewood V76.x ATC Enet ID 448		CIP 76.x ATC Ethernet
449	Edgewood V76.x ATC Enet ID 449		CIP 76.x ATC Ethernet
450	Edgewood V76.x ATC Enet ID 450		CIP 76.x ATC Ethernet
451	Edgewood V76.x ATC Enet ID 451		CIP 76.x ATC Ethernet
452	Edgewood V76.x ATC Enet ID 452		CIP 76.x ATC Ethernet
453	Edgewood V76.x ATC Enet ID 453		CIP 76.x ATC Ethernet
1448	Edgewood V61.x TS2 E-net ID 448		CIP 61.x TS2 Ethernet
1449	Edgewood V61.x TS2 E-net ID 449		CIP 61.x TS2 Ethernet
1450	Edgewood V61.x TS2 E-net ID 450		CIP 61.x TS2 Ethernet
1451	Edgewood V61.x TS2 E-net ID 451		CIP 61.x TS2 Ethernet
1452	Local Event		CIP 61.x TS2 Ethernet
1453	Split History	3/10/2023 9:35:23 AM	NTCIP 61.x TS2 Ethernet
3060	Volume/Occupany	3/10/2023 9:35:23 AM	NTCIP 76.x 2070 Ethernet
3061	Hi-Res Data	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
3070	All	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
3078	NYS DOT-R7-SG-ID 3078	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4
3079	NYS DOT-R7-SG-ID 3079	3/10/2023 9:35:23 AM	Scout Ethernet v85.3/v85.4

- Upload
- Download
- Edit
- View
- Compare
- Diagnostics
- Scan
- Retrieve
- View History
- Sync with ATMS
- Move
- Delete Data
- Export Data

- Local Event
- Split History
- Volume/Occupany
- Hi-Res Data
- All

ID: 102

NAME: V76

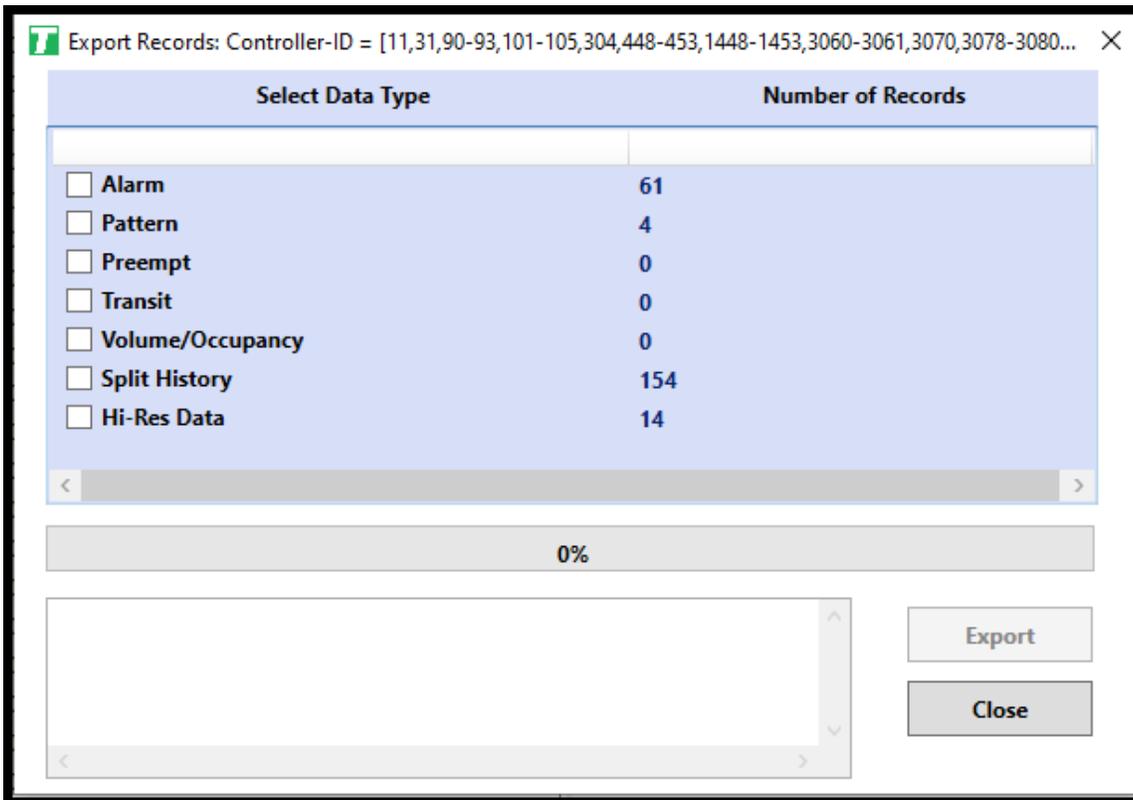
TYPE: NT

DATE MODIFIED: 2/1

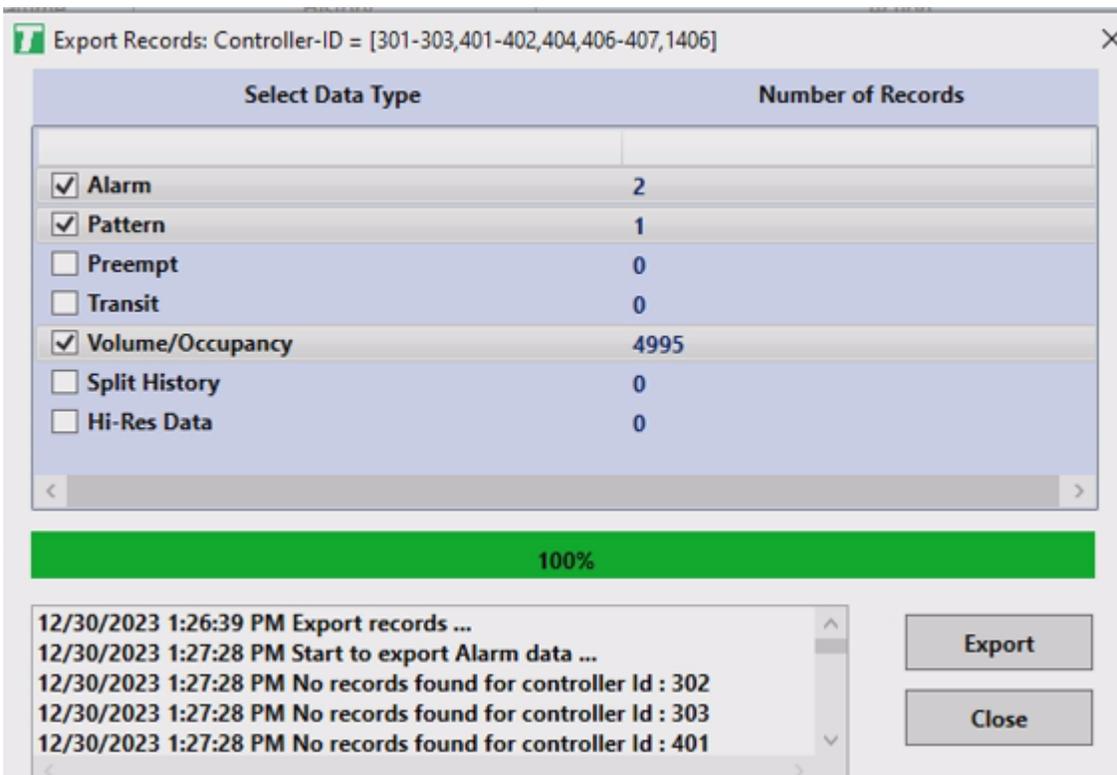
IP: 192

The user can select the type of data to be exported including **All** data.

Once selected a screen will be displayed to verify the data that the user wants to export.



Select the category(s) to be exported and the data to be sent to csv files.



## Move

Move is found in the ATMS section of the controller menu. It is used to transfer the StreetSync retrieved databases into the specific ATMS SQL database. The following selection screen is used for this transfer.



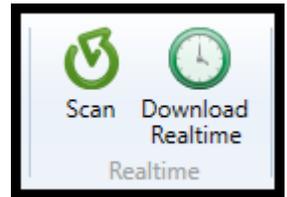
The screenshot shows a dialog box titled "Transfer Retrieved Data to ATMS Server". It features a table with columns for "Select Data Type", "StreetSync", "Upload to ATMS", and "Total". A red oval highlights the "Select Data Type" column, which contains several data types with checked checkboxes. Below the table is a progress bar showing "0%". At the bottom right, there are "Move" and "Close" buttons, with a red arrow pointing to the "Move" button.

Select Data Type	Number of Records		
	StreetSync	Upload to ATMS	Total
<input checked="" type="checkbox"/> Alarm	0	108	108
<input checked="" type="checkbox"/> Pattern	0	7	7
<input checked="" type="checkbox"/> Preempt	0	0	0
<input checked="" type="checkbox"/> Transit	0	0	0
<input checked="" type="checkbox"/> Split History	0	359	359
<input checked="" type="checkbox"/> Volume/Occupancy	0	95	95
<input checked="" type="checkbox"/> Hi-Res Data	0	96	96

Please note that the files are **ONLY** moved to ATMS.

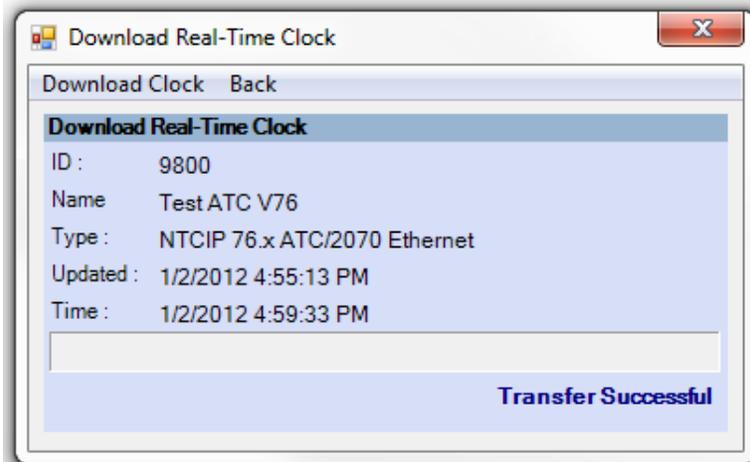
## Realtime Section

The Real time section allows the user to update the clock time for a controller or to scan a connected controller to view Red/Yellow/Green status



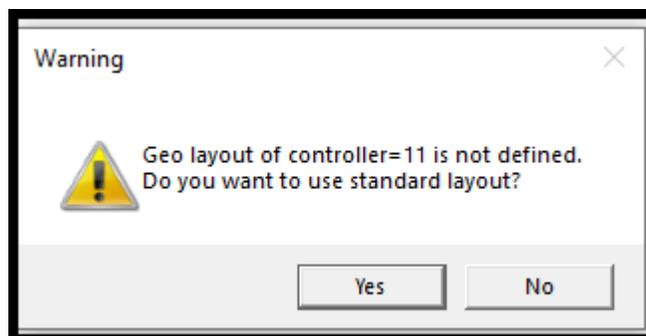
## Download Real-Time

The Download Real Time screen works the same way as the existing ATMS Partner screen. The user selects a controller from the list, then chooses **Download Real Time** menu item. The app then displays the screen depicted below, indicating the selected controller. The user may then click the **Download Clock** button to transfer time data between the device and the controller. When the Synchronization is complete, the progress bar displays **Transfer Successful**.



## Scan

After selecting the intersection and connecting it to StreetSync the user can run a scan screen. The scan screen layout is dependent upon setting the **Intersection Layout** configuration screen in ATMS. If this is programmed in ATMS for the intersection that you are connected to the scan screen will be laid out as per this program. If the Intersection layout configuration is not set then the following message will appear and a default screen is displayed.



After hitting YES, a scan background will occur like the default on below.

Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Overlap																
Call	<input checked="" type="checkbox"/>	<input type="checkbox"/>														
Ped	<input checked="" type="checkbox"/>	<input type="checkbox"/>														
Ped Call	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							

Channels

Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Red	<input checked="" type="checkbox"/>															
Yellow	<input type="checkbox"/>															
Green	<input type="checkbox"/>															

Rings

Ring	Min	Max	Ped
1		16	
2		16	
3			
4			
5			
6			
7			
8			

Overview

Pattern:	1 103-1	Cycle:	100	Ph Opt:	0
TBC:	15	Offset:	0	Ph Time:	0
Local:	15	Splits:	1 103-1	DetGrp:	0

5/11/2022 2:38:35 PM

The scan screen will display Phase Red/Yellow/Green status, timing, Channel Outputs and coordination data so that the user can check the intersection from his PC while verifying field data. In addition, the user can view live alarm data as well as detection data by sliding down the bar on the right side of the screen.

Overview

Pattern:	1 103-1	Cycle:	100	Ph Opt:	0
TBC:	44	Offset:	0	44 Time:	0
Local:	44	Splits:	1 103-1	DetGrp:	0

Active Alarms

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128

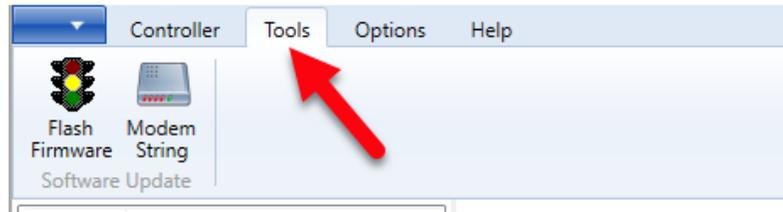
Active Detectors

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128

5/11/2022 2:40:44 PM

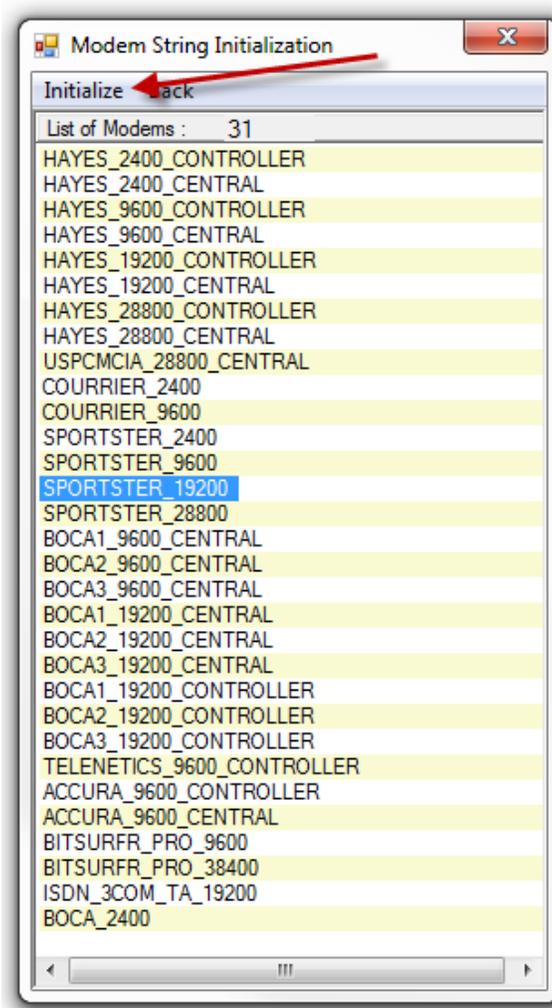
## Tools Menu

The Tools menu allows the user to Flash firmware to a 980 NEMA controller or a Cubic | Trafficware MMU as well as interface to dial modems to set up communication strings.



## Modem String Initialization

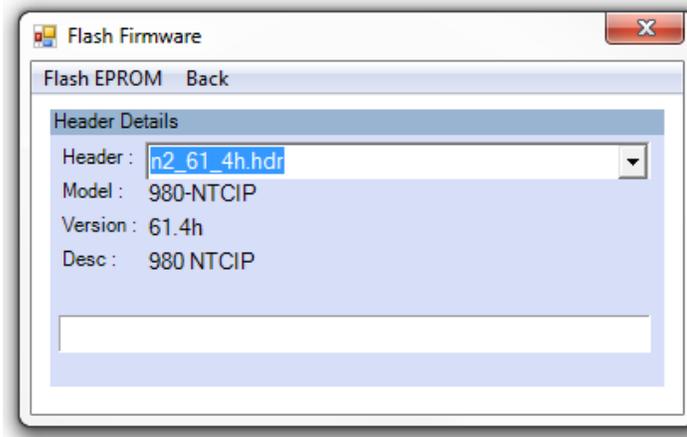
The user can connect the laptop to a modem to initialize it with setup data if needed. Select the **Modem String** Action and chose the modem type that you plan to initialize.



By selecting **Initialize** and connecting the laptop to your modem, StreetSync will download a setup string to the modem.

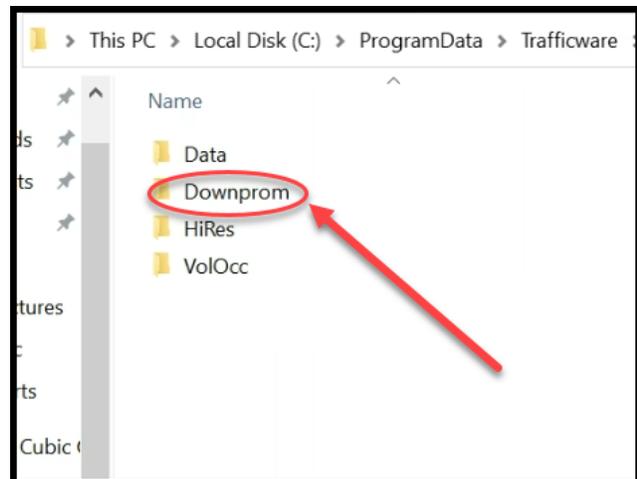
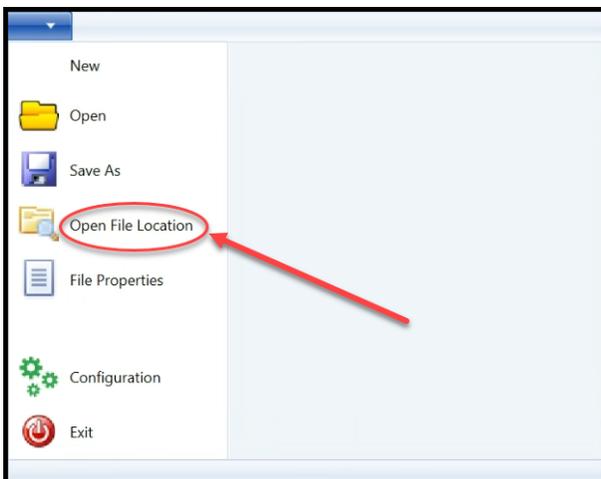
## Flash Firmware

For Cubic | Trafficware TS2 controllers and Cubic | Trafficware MMU's firmware can be upgraded and installed via StreetSync. Selecting **Flash Firmware** will bring up the following screen as shown below.



Click on the pull down menu to select the firmware header file. A list will appear, with the available Proms to download. Select the desired EPROM. Finally, Select **Flash EPROM** from the menu to begin the download. The header files must be located on the ATMS server under the directory: **...Naztec/Nazserv/Downprom**.

**Below is the path to view the contents of the Downprom folder within StreetSync:**



# Help Menu

## Help Menu

This will link to the manual for the user's current version of StreetSync.

## Technical Support

This will link to the online web support portal **(must be connected to the internet)**

## Report a Bug

This will link to an email to report an issue and/or bug. **(must be connected to the internet)**

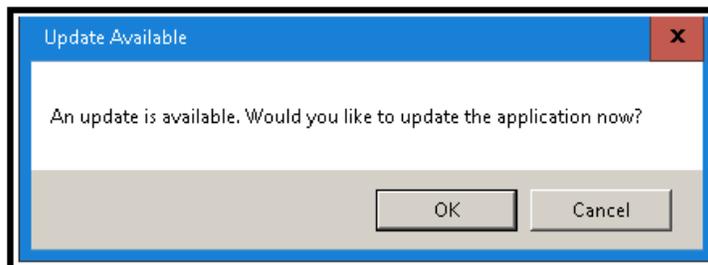
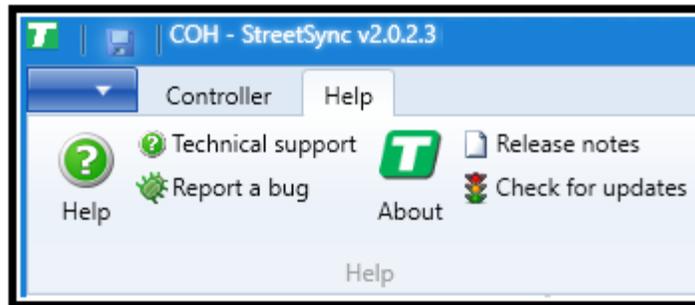
## Release Notes

This will list all features and bug fixes added over each released version of StreetSync.

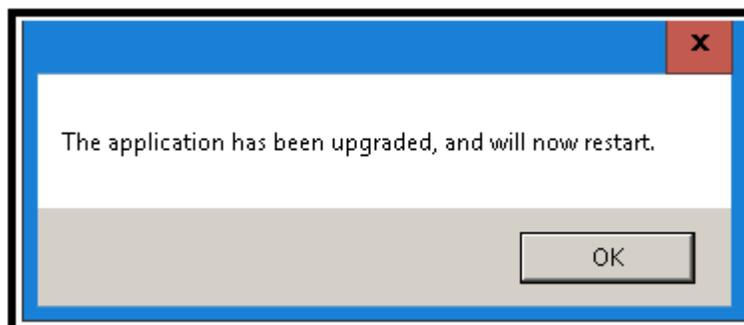
## Check for Updates

Among the features of the StreetSync **Help** section is access to this manual, release notes and an automatic update check feature.

**Note: If a StreetSync update is available via the internet and you run it, it may take a few minutes to access and install the update files. You will get the following if an Update is available:**



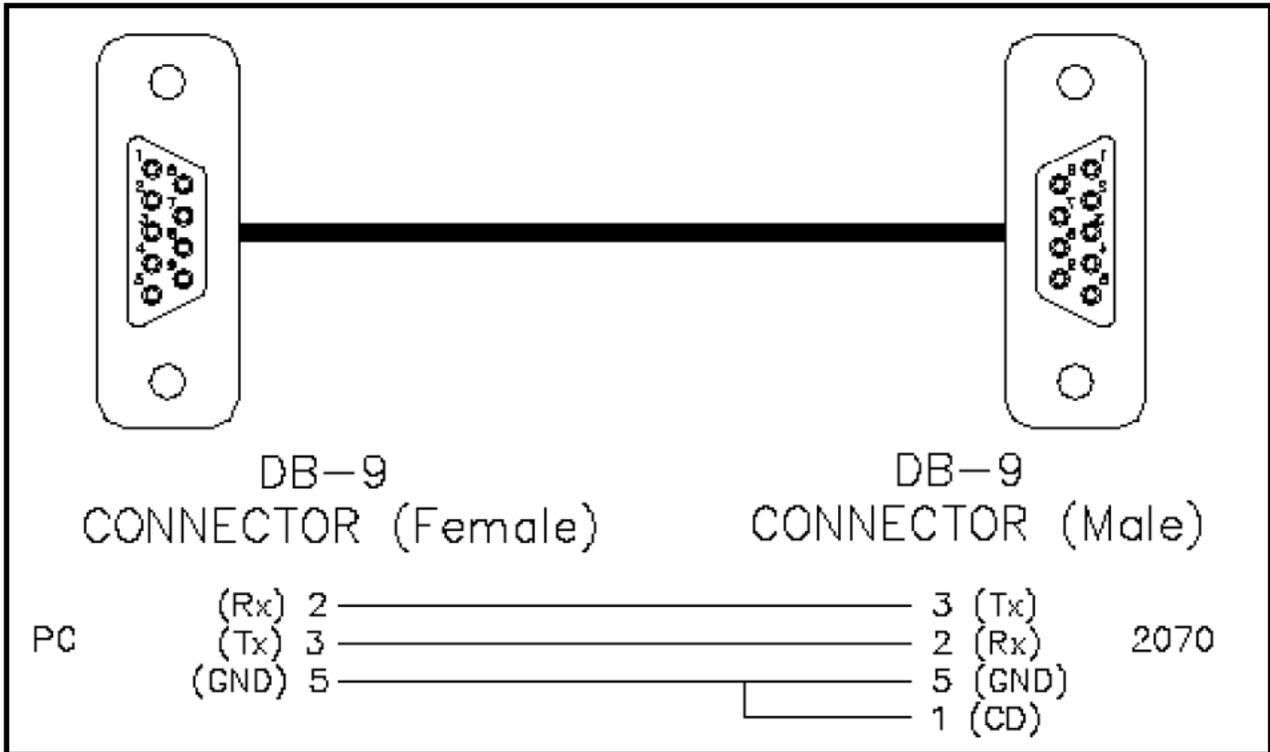
During the update process, StreetSync will not display any confirmation screen. Please wait until you see the following confirmation screen be displayed that insures that StreetSync was updated:



## Hardware considerations

### PC to 2070 Cable Setup

The following is a diagram outlining the pin-outs for a cable connecting the 2070 C50 connector to the comm. port of your PC or laptop.



### NEMA TS2 Communications Port Cable setup

System (P-A)				System Up (P-A)				System Down (P-B)			
Pin	Function	Pin	Function	Pin	Function	Pin	Function	Pin	Function	Pin	Function
1	Earth Ground	7	Signal Ground	1	Earth Ground	7	Signal Ground	1	Earth Ground	5	CTS
2	TX	8	DCD	2	TX	8	DCD	2	TX	7	Signal Ground
3	RX	20	DTR	3	RX	20	DTR	3	RX	8	DCD
4	RTS	24	Enable Logic Ground	4	RTS	24	Enable Logic Ground	4	RTS	20	DTR
5	CTS	25	Logic Ground	5	CTS	25	Logic Ground				

**NOTE:** Additional Hardware setup information can be found in TecNote 3033 as published on Trafficware's Freshdesk Documentation Site. Contact your Trafficware representative for further information.