

OPERATIONS MANUAL

For

StreetSync

A Module of ATMS



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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 7 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
- 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 Controllers and MM516 MMU's
- Create, save and access multiple cities and/or jurisdictions

Operating Environment

The operating environment will be Windows 7 or higher, running on a variety of PC devices.

Traffic Controller Support

The app will support both TS2, 2070 and ATC 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.

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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.

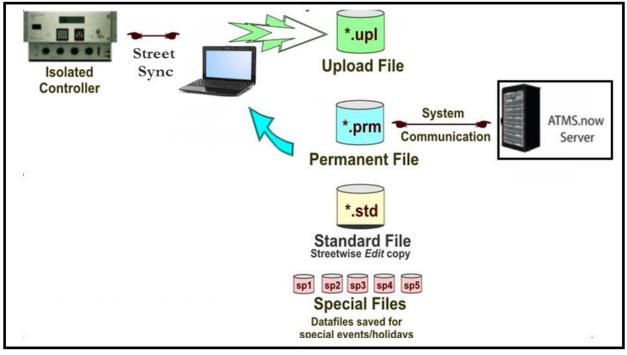
The Permanent File is transferred to StreetSync during the synchronization procedure. This insures that StreetSync carries the last successful download to the field.

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.

1. The CD 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.

	-									- 0	×
GO •	 Computer 	 OS (C:) Nazte 	cWork + StreetSync + relea	ase.8 > StreetSync4.5	i F		▼ ⁴ 7	Search StreetSync	4.5		۶
Organize 🔻	🛃 Open	Burn New fo	older						8==	- 🔳	0
	70Testbo 🔺	Name	^	Date modified	Туре	Size					
	/0Testbo) Application File	5	11/14/2013 11:07	File folder						
	/0Utilitie	ATMS.StreetSyr		11/13/2013 5:09 PM	ClickOnce Applica	6 KB					
	70Utilitie	autorun.inf		11/13/2013 5:09 PM	Setup Information	1 KB					
-	70Utilitie	index.html		11/13/2013 5:09 PM	HTML Document	8 KB					
	70Utilitie	😵 setup.exe 🧹		11/13/2013 5:09 PM	Application	780 KB					
	CUtilitie:	StreetSync.appl	lication	6/20/2013 10:27 AM	ClickOnce Applica	6 KB					
-	CUtilitie: CUtilitie:	StreetSync4.5.a	pplication	8/22/2013 2:43 PM	ClickOnce Applica	6 KB					
	MS Lapt										
-	SI Testbo										
-	J Testing										
	mVid										
CD											
	ronoMax										
	wnProm										
	opbox										
	ICcom E										
	IS_Adapt										
	Vegas										
	VU_Utilii										
-	- /U_Utilit										
	ztec_Res										
	ztecDoc										
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	elease.8										
	elease.8.:										
🔒 Str	eetWise 👻										
C:\Nazte	ecWork∖St	N	ATMS.StreetSync.	-				- 🖻 🗄 🔿 🍕	11:12 11/14	AM /2013	

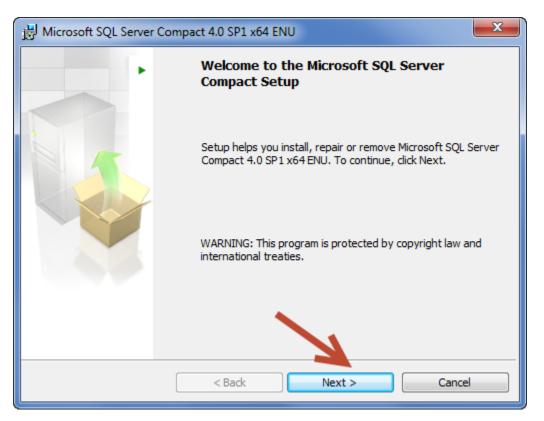
2. The setup will begin and you should see the screen below while StreetSync is installing.

TMS.S	StreetSync4.5 Setup	×
2	Installing Microsoft .NET Framework 4.5 (x86 and x64)	
		Cancel

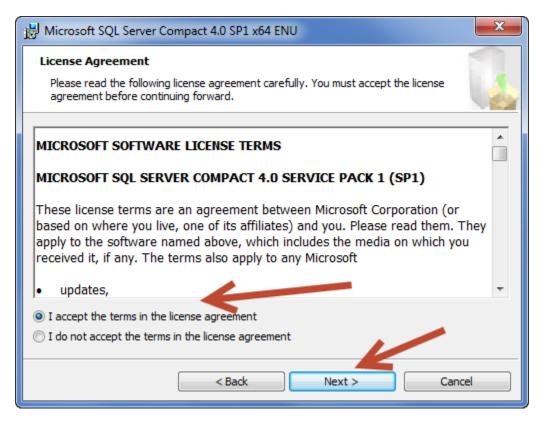
3. When the initial installation is completed the following screen will request a hardware reboot. Please answer **Yes** to reboot your PC, laptop, or tablet.

ATMS.StreetSync4.5 Setup	x
Setup must reboot before proceeding.	
Choose 'Yes' to reboot now or 'No' to manually reboot later.	
Details >>	Yes No

4. Upon restart the following screen may be displayed depending on what has been previously installed on your particular 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.



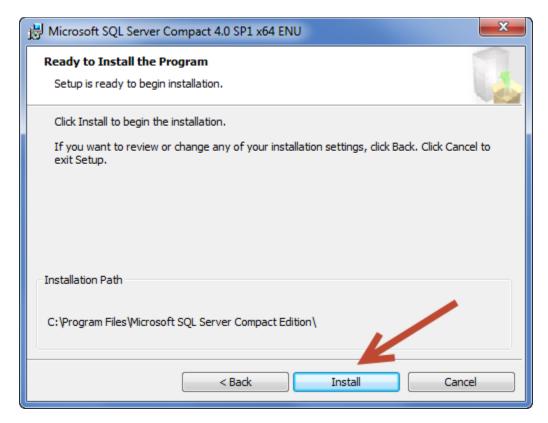
5. Select Next to continue.



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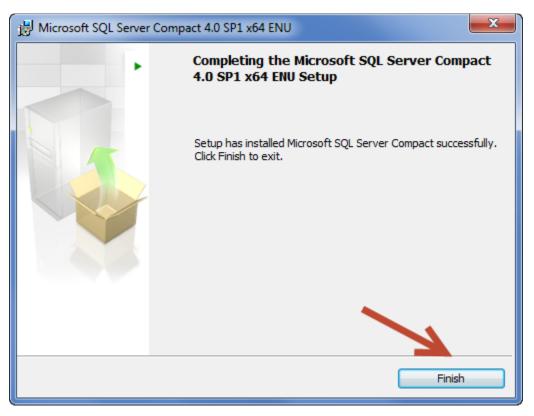
6. Accept the License Agreement and select Next to continue.



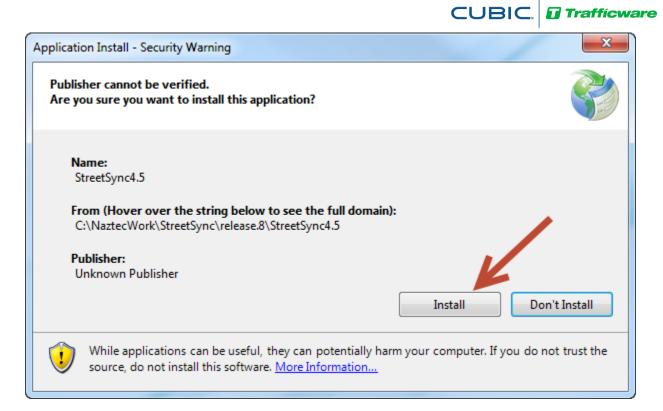
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😸 Microsof	Hicrosoft SQL Server Compact 4.0 SP1 x64 ENU						
Installing Microsoft SQL Server Compact							
The prog	The program features you selected are being installed.						
1	Please wait while the Setup installs Microsoft SQL Server Compact. This may take several minutes.						
	Status:						
	Copying new files						
	< Back Next > Cancel						

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, the following screen will be displayed.

(43%) Insta	alling StreetSync4.5					
This	Installing StreetSync4.5 This may take several minutes. You can use your computer to do other tag during the installation.					
T	Name: <u>StreetSync4.5</u>					
	From: C:\NaztecWork\StreetSync\release.8\StreetSync4.5					
	Downloading: 29.0 MB of 66.0 MB					
		Cancel				



12. When installation is completed StreetSync will automatically start and the splash screen below will be displayed.



Starting StreetSync

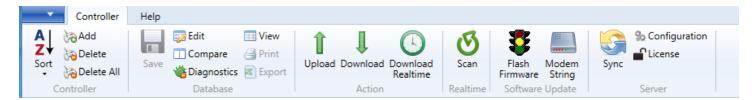
When you first start StreetSync the following screen will appear.

City1 - StreetSync v1.1.0.20		
Controller Help		0
A Belete Sort Delete All Controller Action	Flash Modem Firmware String Software Update	
ID Name C		
Ready		Count = 0

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 controller databases, as shown below.



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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*.

B	uy Software License	
	Purchase Details	
	Information send to Trafficware Inc.	
	B8AC6FC97949	
	Enter License Key received from Trafficware Inc.	
	You are authorized to use this software on this machine.	
	Save	

Once licensed, the following screen will appear:

🔽 🛛 🚽 City1 - StreetSync v1.1.0.20			
Controller Help			0
A Controller Controller Delete All	Upload Download Download Realtime Action	Flash Modem Finware String Software Update	n
ID Name C			
Ready			Count = 0

Selection Drop-Down Menu

l

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

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•		
	New	
<u>-</u>	Open	
H	Save As	
E,	Open File Location	
80	Configuration	
٢	Exit	

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.

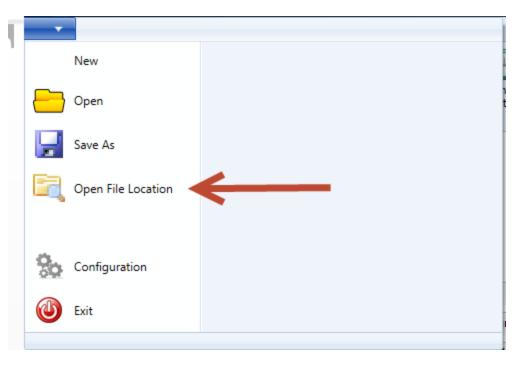
🚺 New City		23
Input City Name		
	OK Cancel	
New City		x
Input City Name	Bexar County	
	OK Cancel	

Once the new city/jurisdiction is created, the title bar will change to reflect the file.

Image: Controller Image: Controler Image: Controller Ima	🔽 🛛 🚽 Bexar County - StreetSync v1.1.0.20		
	Controller Hsip		0
ID NAME DATE MODIFIED TYPE	Sort Delete All Delete All Delete All Delete All Delete All	Download Download Realtime Scan Flash Modem Sync	Clicense
Ready Count = 0		ID NAME MODIFIED	
	Ready		Count = 0

Viewing all City/Jurisdictions

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



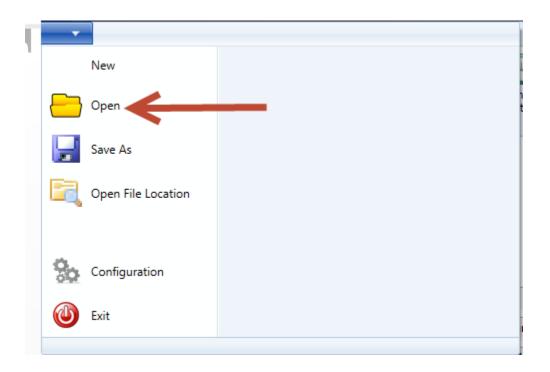
The following browser screen will be displayed.

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				I	
Open	Tra	fficwar	10		×
Com	puter OS (C:) ProgramData Trafficware	 StreetSync 	✓ Search Search S	StreetSync	Q
Organize 👻 New	folder			== -	
☆ Favorites	A Name	Date modified	Туре	Size	
🧮 Desktop	Bexar County.twss	11/14/2013 12:31	StreetSync Docum	468 KB	
鷆 Downloads	Sugar Land.twss	11/14/2013 12:31	StreetSync Docum	468 KB	
💔 Dropbox					
🖳 Recent Places	=				
le SkyDrive					
📃 Desktop					
🕞 Libraries					
Documents					
J Music					
Videos					
Al Bonificio					
Computer					
F	ile name:		✓ StreetSyn	ic documents (.t	wss) (' 🔻
			Open	Ca	ncel

Switch to another City/Jurisdiction

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



The following browser screen will be displayed.

🚺 Open	Tro.	rfficwar	10		×
Com	nputer + OS (C:) + ProgramData + Trafficw	are StreetSync	✓ Search Search S	StreetSync	Q
Organize 🔻 New	folder			!≡ ▼ [
☆ Favorites	^ Name	Date modified	Туре	Size	
🧮 Desktop	Bexar County.twss	11/14/2013 12:31	StreetSync Docum	468 KB	
📜 Downloads	Sugar Land.twss	11/14/2013 12:31	StreetSync Docum	468 KB	
💝 Dropbox					
🖳 Recent Places	E				
\land SkyDrive					
Nesktop					
Eibraries					
Documents					
J Music					
NaztecWork					
Pictures					
🛃 Videos					
强 Al Bonificio					
🖳 Computer	-				
F	File name:		✓ StreetSyn	c documents (.tv	/ss) (' 🔻
	e		Open	Car	ncel
			Open		

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.

Dpen			Traf	ficwar	ne			X
	mputer	 OS (C:) ProgramDa 	ata 🕨 Trafficware 🕨	StreetSync	Search	StreetSync		م
Organize 🔻 Ne	w folder							?
🔆 Favorites	^	Name		Date modified	Туре	Size		
🧮 Desktop		Bexar County.twss		11/14/2013 12:31	StreetSync Docum	468 KB		
🐌 Downloads		Sugar Land.twss		11/14/2013 12:31	StreetSync Docum	468 KB		
💝 Dropbox								
📃 Recent Places	=							
land SkyDrive								
Nesktop								
📄 Libraries								
Documents								
J Music								
NaztecWork								
Pictures								
Videos								
Al Bonificio								
🖳 Computer			V					
	File nam	ne: Bexar County.twss			✓ StreetSyr	nc documents (.	twss) (•
					Open		ancel	
					Open		ancer	

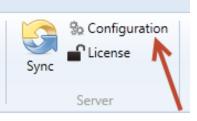
Once you have created a City/Jurisdiction you are ready to configure StreetSync for the interface to ATMS or to create standalone controllers.



Configuration

From the Toolbar you must first configure StreetSync to access ATMS by using the configuration button in the server section.

The configuration screen will allow the user to choose the ATMS **Server** used to get the controller list during the Sync Action and the **Port** number of that server. In addition, the user will be able to set up the **COMM Port** and the **Baud** rate to be used for the laptop device that will connect to the controller. The user can also set up a different baud rate (**Flash Baud**) when "Flashing" firmware to a TS2 controller or MMU. Finally, the user should set up The Flash Firmware Message Length to insure that the headers are sent to the controller.



Co	onfiguration			
	Configuration Deta	ils		
	Server:	192.168.104.10	19	
	Port:	80		
	Baud Rate :	38400 -		
	COM Port:	COM3 -		
	Flash Baud:	57600 -		
	Message Size:	1024 🗸	(Down prom message data length)	
	Comm Channel	RS232		
		RS232 Bluetooth		
		bideroorn	Save Close	

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.

Sync

Sync	action item as shown below. Server Synchronization	
Server	Synchronize with Server	
	Download Headers User Name: Password:	Sync 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.

Server Synchronization		*
	Synchronize with Server	
✓ Download Headers		
User Name: Naztec Password:		Sync Close

Selecting 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.

Server Synchron	nization	E
	Synch	ronizing with Server
Header Files	118 of 125	
		Downloading header filen4_61_4m.b08
Download I	Headers	
User Name:	naztec	
Password:	•••••	Sync
		Cancel

Please note that the user can select Download Headers if it is desired to download firmware to TS2 controllers. 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.

S	erver Synchronization		8
	Synchroniz	zing with Server	
	Header Files 118 of 125		
		Downloading header filen4_61_4m.b0	В
	Download Headers		
	User Name: naztec Password:	Sync Cancel	
	User Name: naztec		

When the Sync is completed, a list of controllers will be displayed.

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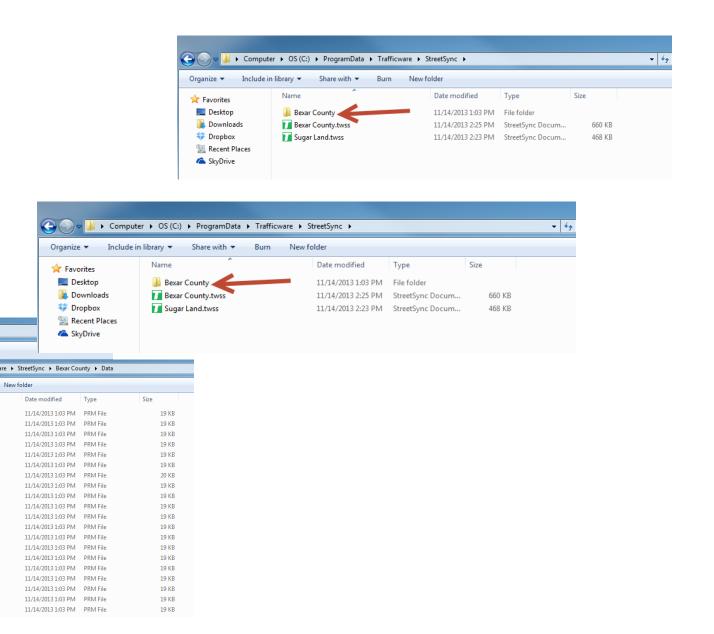
Considerations: Synchronizing Software

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 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 in ATMS is copied to 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.

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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 window panes that the user can view: the Controller List pane and the Overview pane.

	Irafficware Street Sync - VEUUS7 (SUHEU4)All Bonih cio/@SUHEU		X
	Home Help		0
A Z Sort	Add Delete Delete All Save ∰Diagnostics ↓ Upload Dowr	Logical Download Download Configuration Scan Realism String Sing Configuration Single String Sing Single String Si	
ID	Name *		
1	Ygnacio Valley VC # 1		
2	NTCIP Master	Trafficware	
3	v51 Test Conversion	Engineered by M Naztec	
4	2070 V65.x test Ethernet	Engineerea by N Naztec	
5	Test 2070 Lane Control Controller		
6	LCS New 54		
7	V76 Walnut Creek Test 2		
8	Test Full Status		
10	v61 Test Conversion	Vgnacio Valley VC #1	
11	ChronoMax E-net test DATE MOD	DIFIED 7/18/2013 84440 AM	
12	dhcp controller	TYPE NTCIP 65.n 2010 Ethernet	
13	9808	The strend chicket of the strend of the stre	
14	Test V76 FYA E-net		
15	ATC DHCP		
17	Main Street at Elm		
20	V76 RS232 Test-Las Vegas #20		
21	V76 RS232 Las Vegas Test #21		
22	V76 RS232 Test - Las Vegas # 22		
23	V76 RS232 Test - Las Vegas # 23		
41	Test V65 ENET # 41		
48	V61 Norwalk Test		
56	TS2 V61.x Canada Fast Flash		
103	Dulles and Viking		
104	Dulles and Broadmoor		
105	Dulles and Ave E		
	Dulles and Lexington		
	Dulles and Plantation Colony		
	Dulles and Cartwright		
	V61.x Palm Beach Emerg Now - 11.		
	V61.x Palm Beach Emerg Now- 115		
	Douglas Average V76 Output Test (Overview Pane	
	2070 V ale 8Seq Program		
142	TS2 Test Controller		
14 145 146 147 148	Controller List Pane Hernet		
149	rest GYR Serial V65		
4	m		
Control	ler ID=1 Name=Yonacio Vallev VC # 1	Co	ount = 176

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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.

Important: If you create a new controller on the laptop, it will be highlighted as a different color in the controller List Pane and will not be part of the ATMS configuration.

cel					
Controller Details					
Add new Controller					
NTCIP 50 x TS2 RS232	•				
NTCIP 65x 2070 RS232 NTCIP 65.n 2070 Ethernet TR Master 61.x Chronomax 10.x C8 170 RS232 NTCIP n65.x 2070 Ethernet					
	r Details Add new Controller NTCIP 50x TS2 RS232 NTCIP 61x TS2 Ethemet NTCIP 65x 2070 RS232 NTCIP 65.n 2070 Ethemet ITCIP 65.n 2070 Ethemet ITCIP 61.x Chronomax I0.x C8 170 RS232				

ID: Choose an ID that is not in the database. Valid ID numbers are 1-9999. **NAME**: Give a description of this controller.

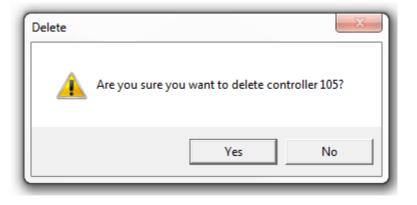
TYPE: this is the type of controller that you are communicating with. The types are listed below:

10 x C8 170 RS232
2070 LCS Ethemet
2070 LCS Ethemet New
50 x TS2 RS232
61 x TS2 RS232
980 TS2 Sec. 50 x Ethemet
980 TS2 Sec. 61 x Ethemet
NTCIP 50 x TS2 RS232
NTCIP 61 x TS2 Ethemet
NTCIP 61 x TS2 RS232
NTCIP 65.n 2070 Ethemet
NTCIP 65 x 2070 RS232
NTCIP 70 x 2070 Ethemet
NTCIP 70 x 2070 RS232
NTCIP 76 x ATC/2070 Ethemet
NTCIP 76 x ATC/2070 RS232
NTCIP Ethemet MASTER 1.48



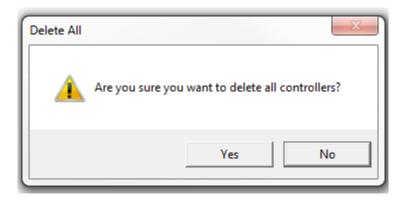
Delete

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

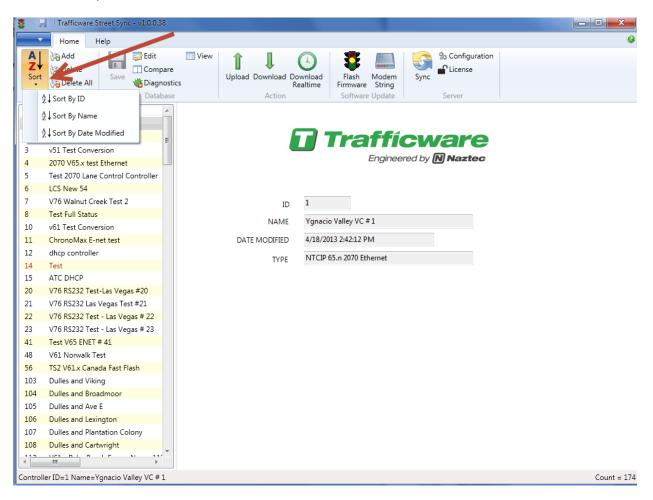
This selection will delete all controllers from the StreetSync database. Again, a confirmation screen will appear.



Sort By ID, Sort By Name

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.

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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.

	🧊 Edit	View
Save	Compare	🛃 Print
Save	👋 Diagnostics	📧 Export
	Database	

Trafficware

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View

This selection allows the user to view data. The info bar on the overview pane will be highlighted in gray when view 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.

ID Name 1 Ypasci Valley (C ± 1) 2 NTCIP Master 3 9 4 2070 V55x test Ethernet 5 Test 2070 Law Controller Control 6 LCS New 54 7 V5 Walnut Creek Test 2 8 7 3 1 20 50 3.5 1.5 0 <th>A Z↓ Sort</th> <th>Controller Help Add Delete Delete All Controller Databas</th> <th>e tics</th> <th>View</th> <th>Jpload Downlo</th> <th>Realtim</th> <th>ad Sc</th> <th></th> <th>Flas Firmw</th> <th>h Ma</th> <th>odem tring</th> <th>Sync</th> <th>Server</th> <th>ration</th> <th></th> <th>-</th> <th></th> <th></th> <th></th>	A Z↓ Sort	Controller Help Add Delete Delete All Controller Databas	e tics	View	Jpload Downlo	Realtim	ad Sc		Flas Firmw	h Ma	odem tring	Sync	Server	ration		-			
1 Ygnacio Valley VC # 1 2 NTCIP Master 3 v51 Test Conversion 4 2070 V55.x test Ethernet 5 Test 2070 Lanc Control Controller 6 LCS New S4 7 V76 Wahut Creek Test 2 8 Test Full Status 9 Test 50 9 Test 50 10 0 3 1 20 50 3.5 1.5 0				ntroller						nare op	Jane		Jerrer						
2 NTCIP Master Phase Image: Solution of the state theme in the state of	1	Ygnacio Valley VC # 1]																
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b b	4	2070 V65.x test Ethernet	Phas	e1 0	0	3	1	20	50	3.5	1.5	0	0	0	0	0	0	0	
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8 Test Full Status 9 Test 9 0	6	LCS New 54	Phas	e3 0	0	3	1	20	50	3.5	1.5	0	0	0	0	0	0	0	c≡
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105 Dulles and Ave E 106 Dulles and Lexington			Pha	Phase Times and Options / Phase Times + Alt & Phase Times + & Phase Times + and Options + & Phase Times Alt & SDLC Devices & Ring Input Map & Ring Sequences & TOD Parameters															
			SDL	C Parms	Unit Parms														
Filter Controller	107	Dulles and Lexington			/														

Edit

This selection allows the user to edit and modify data. The info bar on the overview pane will be highlighted in blue when view 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.

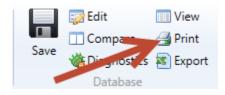
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ID	Name	^	Contro	ller i	#14 - Phase	e Times a	and Op	otion	S				4	5					
1	Ygnacio Valley VC # 1																		
2	NTCIP Master	= [Phase	Wal	Ped Clearanc	Min Gree	Passage	Max	Max	Yello	Red	Red Rever	Added Initi	Max Initi	Time Before Reduc	Cars Before Reduc	Time To Reduc	Reduce B	N
	v51 Test Conversion 2070 V65.x test Ethernet		Phase 1	0	0	3	1	20	50	3.5	1.5	0	0	0	0	0	0	0	C
	Test 2070 Lane Control Controller		Phase 2	5	7	3	1	20	50	3.5	1.5	0	0	0	0	0	0	0	С
	LCS New 54		Phase 3	0	0	3	1	20	50	3.5	1.5	0	0	0	0	0	0	0	c ≡
	V76 Walnut Creek Test 2		Phase 4	5	7	3	1	20	50	3.5	1.5		0	0	0	0	0	0	C
	Test Full Status		Phase 5	0	0	3	1	20	50	3.5	1.5	-	0	0	0	0	0	0	
	Test 9			5	7	3	1	20	50	3.5	1.5		0	0	0	0	0	0	
0	v61 Test Conversion		Phase 6	-		-	-					-	•	-	-	-	-	-	
1	ChronoMax E-net test		Phase 7	0	0	3	1	20	50	3.5	1.5	-	0	0	0	0	0	0	C
2	dhcp controller		Phase 8	5	7	3	1	20	50	3.5	1.5	-	0	0	0	0	0	0	С
.3	9808 Test V76 FYA E-net		Phase 9	0	0	0	0	0	0	3.5	1.5	0	0	0	0	0	0	0	C
4 5	ATC DHCP		Phase 1	0	0	2	0	0	0	3.5	1.5	0	0	0	0	0	0	0	С
0	V76 RS232 Test-Las Vegas #20		Phase 1	0	0	0	0	0	0	3.5	1.5	0	0	0	0	0	0	0	C
1	V76 RS232 Las Vegas Test #21		Phase 1	0	0	0	0	0	0	3.5	1.5	0	0	0	0	0	0	0	С
2	V76 RS232 Test - Las Vegas # 22		Phase 1	0	0	0	0	0	0	3.5	1.5	0	0	0	0	0	0	0	C -
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	- III		Filt	er (Controller	<	<												

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.



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.



🖳 Controller DataBase Categories 📃 🎫
Current Screen
Current Category
C Last Selected
Print Cancel
E. All Categories
👜 🗌 Adaptive
🖨 🗸 Adv Warning
🗸 Table 1
🕮 🗌 Async Parameters
🕀 🗌 Auto Flash
🕀 🗌 Auto Flash Parms
😟 🔄 Channel Parms
🕀 🔄 Channels Assignments
🕀 🗌 Channels Assignments Plus
😟 🔄 MMU to Controller Mapping
😟 🔄 MMU Permissives
🔄 🔄 General Comm Parms
😟 🔄 Console Parms
😟 🗌 Coord External IO
😟 🗌 Coordination Parms
🖶 🔄 Coordination Parms Plus
🖶 🔄 Day Plan
🖶 🔄 Day Plan Link
🖶 🔄 DCS
🖶 🔄 Detector Parms
🖶 🔄 Ped Parms
🖶 🔄 Event Parms
🗐 🗌 Port Bindings
🖶 🔄 IO Parms
🕒 🔄 IP Parameters
🗐 🗌 Lane Control Plans
🗐 🗌 IO Logic
🗐 🗌 2A Input Map
🖶 🔄 2A Output Map
🖶 🔄 User Input D Map
🖶 🔄 User Output D Map
🖶 🔄 Overlap Alternate
Cuarlan R.

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

Current Screen will print the current screen being edited.

Current Category will print the current all the 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

п

Save

While you are still in the edit screen, 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.

□ Compare	📝 Edit 📰 View	🖳 Controller Database Export
Data Control Calegory Exect Image: Control Calegory Exect Feat Export Cancel Image: Control Calegory Exect Image: Control Calegory Cancel Image: Control Calegory Exect Image: Control Calegory Exect Image: Control Calegory Cancel Image: Control Calegory Exect Image: Control Calegory Cancel Image: Control Calegory Calegory Image: Control Calegory Cancel Image: Control Calegory Cancel Image: Control Calegory Calegory		Current Screen Format
Export Text Export Cancel Image: Construct of the state of	🖓 Diagnostics 🔊 Export	Current Category Excel
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Event Parms Fort Bindings Port Bindings Port Bindings IO Parms IO Parms IO Parameters IO Logic IO Logic 2A Input Map Overlap Alternate		Detector Parms
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 IO Parms IP Parameters ID Logic <l< th=""><th></th><th>👜 🖳 Event Parms</th></l<>		👜 🖳 Event Parms
IP Parameters IP Control Plans ID Logic IP Control Plans ID Logic ID Lo		🖶 🔄 Port Bindings
Lane Control Plans Lane Control Plans D Logic 2A Input Map 2A Output Map Output D Map User Input D Map Overlap Alternate		
IO Logic		
Contraction of the second		
B ··· □ User Input D Map B ··· □ User Output D Map B ··· □ Overlap Alternate		
⊕ □ User Output D Map ⊕ □ Overlap Alternate		
🕀 🔲 Overlap Alternate		

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

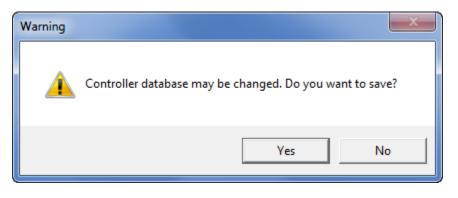
Current Screen will print the current screen being edited.

Current Category will print the current all the 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.



Save

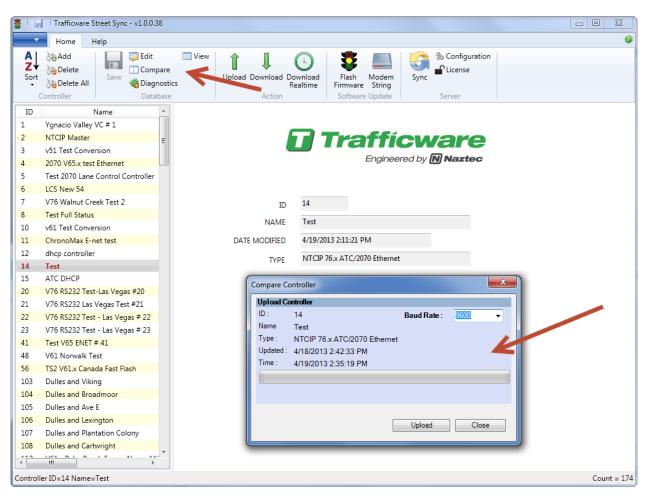
Once edits are completed, Save will write the changes to the database. After selecting Save, the following window will appear. Navigate to the Save Screen by clicking on another icon or menu item.



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.

Compare

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

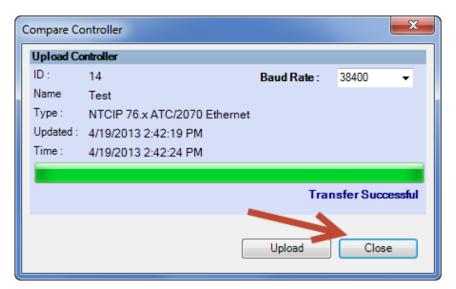


You can select the proper BAUD Rate to match your controller's serial communications speed via the drop down menu. Hitting Upload will begin the process of uploading data.

CUBIC. D Trafficware

C	Compare Co	ontroller		X	J
	Upload Co	ntroller]
	ID :	14	Baud Rate :	9600 -	
	Name	Test			
	Type :	NTCIP 76.x ATC/2070 Ethernet		` \	
	Updated :	4/18/2013 2:42:33 PM			
	Time :	4/19/2013 2:39:02 PM		N	
		\rightarrow	Upload	Close	
	Updated :	4/18/2013 2:42:33 PM	Upload	Close	

Compare Co	ontroller		×
Upload Co	ontroller		
ID :	14	Baud Rate :	38400 👻
Name	Test		
Type :	NTCIP 76.x ATC/2070 Ethernet		
Updated :	4/18/2013 2:42:33 PM		
Time :	4/19/2013 2:40:50 PM		
			3660 of 30000
		Upload	Cancel





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

	I trafficware street over - 01000 es		and the second se		• ×
	Home Help				9
AI	Add 🗾 🔂 Edit	🔲 View 🛛 🔶	1 0	🕿 📖 🖂 % Configuration	
A z	Delete		1 O		
Sort	Delete All		wnload Download Realtime	Flack Modem Sync	
	Controller Databas		Action	ramware string Software Update Server	
ID	Name			1 - Phase Times and Options	
1	Ygnacio Valley VC # 1	Controller Databa	ise companso		
2	NTCIP Master				
2	v51 Test Conversion	Parameter	ID 14 ID 14		
4	2070 V65.x test Ethernet	Parameter	PRM UPL		
5	Test 2070 Lane Control Controller	1. Walk	0 0		
6	LCS New 54	1. Ped Clearance	0 0	1	
7	V76 Walnut Creek Test 2	1. Min Green	0 5	-	
8	Test Full Status		0 1	4	
10	v61 Test Conversion	1. Passage	0	4	
11	ChronoMax E-net test	1. Max1	0 25		
12	dhcp controller	1. Max2	0 50		
14	Test	1. Yellow	0 3.5		
15	ATC DHCP	1. Red	0 1.5		
20	V76 RS232 Test-Las Vegas #20	1. Red Revert	0 0		
21	V76 RS232 Las Vegas Test #21	1. Added Initial	0 0		
22	V76 RS232 Test - Las Vegas # 22	and the second s	-		
23	V76 RS232 Test - Las Vegas # 23	1. Max Initial	0 0		
41	Test V65 ENET # 41	1. Time Before Reduce	0 0		
48	V61 Norwalk Test	1. Cars Before Reduce	0 0		
56	TS2 V61.x Canada Fast Flash	1. Time To Reduce	0 0		
103	Dulles and Viking	1. Reduce By	0 0	-	
104	Dulles and Broadmoor			-	
105	Dulles and Ave E	1. Min Gap	0 0		
106	Dulles and Lexington	1. Dynamic Max Limit	0 0		
107	Dulles and Plantation Colony	1. Dynamic Max Step	0 0		
108	Dulles and Cartwright	1. Startup	NONE RED		
	V61.x Palm Beach Emerg Now - 11	1. Enable	Off On		
	V61.x Palm Beach Emerg Now- 115	1. Auto Entry	Off Off	-	
138	Douglas County- V76 Output Test (1. Auto Exit	Off Off		
141	2070 V76 Avondale 8Seq Program		A COLORED AND A	4	
	TS2 V61.x Ethernet Test Controller	1. Non Act1	Off Off		
143	NTCIP V61 CFI-Loveland	1. Non Act2	Off Off		
	Test V61 RS232 NTCIP				
	Test 2070 VC TSP	Table 1			
146	Bench Test V76 2070 Ethernet	Contraction and the second			
147	Test GYR 2070 V65 2070 Bench V65.n ENet SDLC Testb	Actions Adaptive		Warning X Algin's Pasameters X Auto Flash X Auto Flash Parms X Call Inhibits Reduced Alt X Channel Parms X Channel Assignments X Channel Assignments Plus X Counter Parms X Coord Stormal D X Coordination Parms X Coordination Parms X	ms Plus
	Z0/0 Bench Vb5.n ENet SDUC Testb Test GYR Serial V65	Day Plan Day Plan Li	nk (DCS (Detecto	Parent, Enable Alema J, Enable Greens J, Eneet Parent J, General Comm Parent, J 10 Logic / KD Parent J, Parametern J, Lane Control Parent J, Multi Controller Magging J, Overlap Alternate J, Dorelap Parent J, Posto Parent J	
	90A and SH6				
	90A and Ulrich	Preempt / Preempt LP		Preempt- X Eng Export Map X Ring Sequences X SDLC Parvices X SDLC Parvices X SDLC Parvices X SDLC Parvices X Security Passwords X Speed Parameters X Splits Expanded X Sync Parameters X 100 Parameters X 199 Splits (TSP Strategy X Unit Parvix X User Input D Map /	
e		Database Configurat	ions -	Show Only Differences	
	ler ID=14 Name=Test				Count = 174

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.

The user can make note of these differences and edit the database if needed.



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 databases from StreetSync. Once this is selected, the following screen will be shown.

🏅 I 🔓	Trafficware Street Sync - v1.0.0.3	8								x
-	Home Help									0
A Z↓ Sort	Add Image: Controller <	nostic	View	Upload Download	l Download Realtime Fi	Flash Modem rmware String Software Update	Sync Sync	Server		
ID	Name	*	Coordina	ation Diagnos	tics					
1	Ygnacio Valley VC # 1	Ξ								
2	NTCIP Master		ID	Name	Error Count					
3	v51 Test Conversion									
4	2070 V65.x test Ethernet		14	Test	0					
5	Test 2070 Lane Control Controller									
6	LCS New 54									
7	V76 Walnut Creek Test 2									
8	Test Full Status									
10	v61 Test Conversion									
11	ChronoMax E-net test									
12	dhcp controller									
14	Test									
15	ATC DHCP									
20	V76 RS232 Test-Las Vegas #20									
21	V76 RS232 Las Vegas Test #21									
22	V76 RS232 Test - Las Vegas # 22									
23	V76 RS232 Test - Las Vegas # 23	-							<u> </u>	
•									Run Diagnostic	
Controll	er ID=14 Name=Test has been saved	ł							Cou	nt = 174

Select Run Diagnostics to run coordination diagnostics.

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

🧕 I 🖟	Trafficware Street Sync - v1.0.0.38	
-	Home Help	0
A Z Sort		View 1 J Ownload Download Realtime Firmware String Action Software Update Server
ID	Name 🔶 C	oordination Diagnostics
1	Ygnacio Valley VC # 1 📃	
2	NTCIP Master	
3	v51 Test Conversion	ID Name Error Count
4	2070 V65.x test Ethernet	21 V76 RS232 Las Ve 0
5	Test 2070 Lane Control Controller	
6	LCS New 54	
7	V76 Walnut Creek Test 2	
8	Test Full Status	
10	v61 Test Conversion	
11	ChronoMax E-net test	
12	dhcp controller	
14	Test	
15	ATC DHCP	
20	V76 RS232 Test-Las Vegas #20	
21	V76 RS232 Las Vegas Test #21	
22	V76 RS232 Test - Las Vegas # 22	
23	V76 RS232 Test - Las Vegas # 23	Run Diagnostic
-	III	
Control	ler ID=21 Name=V76 RS232 Las Vegas Test #	21 Count = 174

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

🤹 I 🖢	Trafficware Street Sync - v1.0.0.38		x
-	Home Help		0
A Z↓ Sort	Add Image: Compare state Delete Save Delete All Save Controller Database	tics Upload Download Download Flash Modem Sync Realtime Firmware String	
ID	Name	Coordination Diagnostics	
1	Ygnacio Valley VC # 1 🛛 🗉		
2	NTCIP Master	ID Name Error Count	
3	v51 Test Conversion	□ 14 Test 2	
4	2070 V65.x test Ethernet		
5	Test 2070 Lane Control Controller	Warning: Limited Diagnostics are run for controllers in USER MODE	
6	LCS New 54	Error : Phase Split Validation - Force Mode	
7	V76 Walnut Creek Test 2		
8	Test Full Status		
10	v61 Test Conversion		
11	ChronoMax E-net test dhcp controller		
12 14	Test		
14	ATC DHCP		
20	V76 RS232 Test-Las Vegas #20		
21	V76 RS232 Las Vegas Test #21		
22	V76 RS232 Test - Las Vegas # 22		
23	V76 RS232 Test - Las Vegas # 23 🛫		
•		Run Diagnostic	
Control	ler ID=14 Name=Test has been saved	Count	= 174

Action Section

The Action menu will appear in the lower-left portion of the display. Sync operation is considered a "static" action, meaning that it is enabled whether or not a controller is selected. The other actions are "instance" actions, meaning that they are only enabled when a controller is selected.

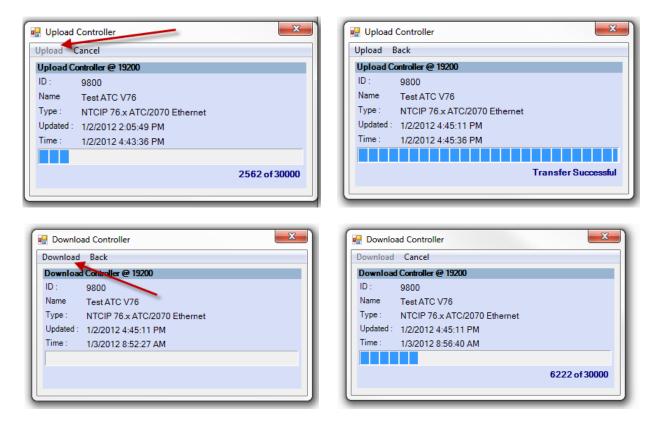


CUBIC. Drafficware

Upload / Download

The Upload / Download screen works the same way as the existing ATMS Partner screen. 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 *Transfer Successful*.



Please note that both Upload and Download overwrite the .PRM file in the StreetSync Database.

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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**.

	🚽 Downlo	ad Real-Time Clock	×	1
	Download	Clock Back		I
	Download	Real-Time Clock		I
	ID :	9800		I
	Name	Test ATC V76		I
	Type :	NTCIP 76.x ATC/2070 Ethernet		I
	Updated :	1/2/2012 4:55:13 PM		I
	Time :	1/2/2012 4:59:33 PM		I
				I
			Transfer Successful	I
				I
-				1

CUBIC. **Trafficware**

Scan

Realtime

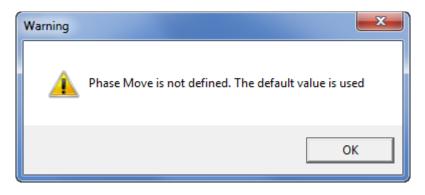
Realtime Section

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

Scan

After selecting the intersection and connecting it to StreetSync the user can run a scan screen. The scan screen

layout is dependent upon the ATMS setting known as *Edit Turn Phase/Directions*. 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 *Edit Turn Phase/Directions* is not set then the following message will appear and a default screen is displayed.



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

	1	2	3	4	5	6	7	8	9	10	12	14	15
Overlap													
Call													
Ped													
Ped Call													



Ring	Min	Max	Ped
1			
2			
3			
4			

Pattern:	Cycle:	Ph Opt:
TBC:	Offset:	Ph Time:
Local:	Splits:	DetGrp:

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.

Software Update Section

The software Update sections 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.



Trafficware

CUBIC

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.

🔛 Modem String Initialization	
Initialize ack	
List of Modems : 31	
HAYES_2400_CONTROLLER	
HAYES_2400_CENTRAL	
HAYES_9600_CONTROLLER	
HAYES_9600_CENTRAL	
HAYES_19200_CONTROLLER	
HAYES_19200_CENTRAL	
HAYES_28800_CONTROLLER	
HAYES_28800_CENTRAL	
USPCMCIA_28800_CENTRAL COURRIER_2400	
COURRIER 9600	
SPORTSTER 2400	
SPORTSTER_9600	
SPORTSTER_19200	
SPORTSTER 28800	
BOCA1 9600 CENTRAL	
BOCA2_9600_CENTRAL	
BOCA3_9600_CENTRAL	
BOCA1_19200_CENTRAL	
BOCA2_19200_CENTRAL	
BOCA3_19200_CENTRAL	
BOCA1_19200_CONTROLLER	
BOCA2_19200_CONTROLLER	
BOCA3_19200_CONTROLLER	
TELENETICS_9600_CONTROLLER	
ACCURA_9600_CONTROLLER	
ACCURA_9600_CENTRAL BITSURFR PRO 9600	
BITSURFR_PRO_38400	
ISDN 3COM TA 19200	
BOCA_2400	
1 III	

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.

	Flash Fir	mware		×						
F	Flash EPROM Back									
	Header De	tails								
	Header :	n2_61_4h.hdr		•						
	Model :	980-NTCIP		_						
	Version :	61.4h								
	Desc :	980 NTCIP								
L]						

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 **FlashEPROM** from the menu to begin the download.

The header files must be located on the ATMS server under the directory: ...Naztec/Nazserv/Downprom

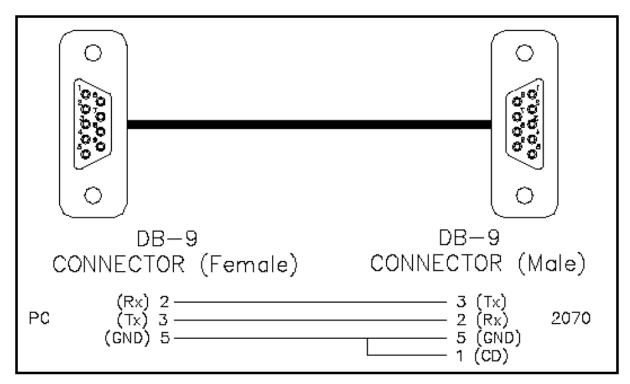
If you are using a standalone version of StreetSync, you can copy the header files to the following Directory: ...ProgramData\Trafficware\StreetSync\Sugarland2\Downprom



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	ТΧ	8	DCD		2	тх	8	DCD		2	тх	7	Signal Ground
3	RX	20	DTR		3	RX	20	DTR		3	RX	8	DCD
4	RTS	24	Enable		4	RTS	24	Enable		4	RTS	20	DTR
5	CTS	25	Logic Ground		5	стѕ	25	Logic Ground		_ ·	1	1	

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