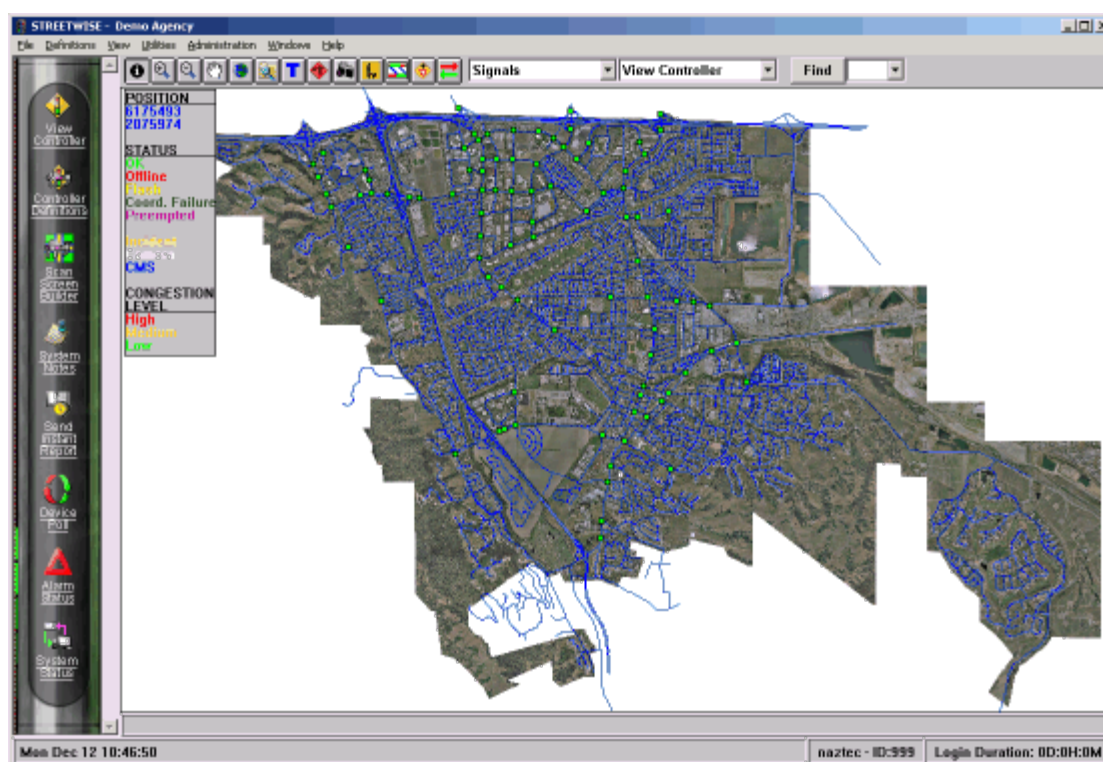


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TecNote 3021 - Setting Up the GIS Interface in StreetWise or ATMS.now



The purpose of this TecNote is to help the user set up StreetWise or ATMS.now to interface with its existing GIS functionality. This TecNote assumes that the agency is using the StreetWise full-featured version or ATMS.now as well as existing ArcInfo or ArcView databases. When the software is installed it will integrate GIS as a System Map within StreetWise.

Installation Considerations

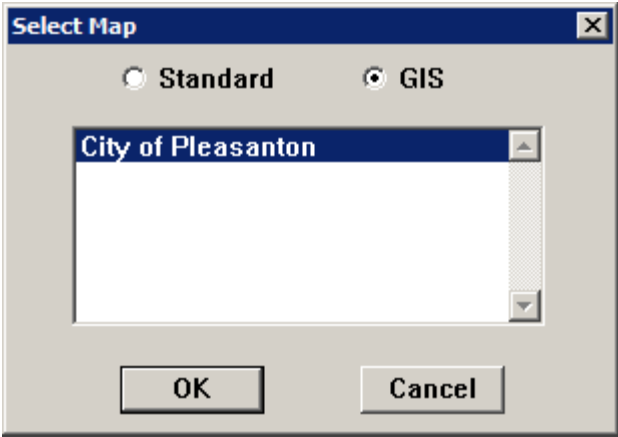
StreetWise or ATMS.now herein to be known as the "**Central**" utilizes the agency's existing GIS database files for its interface. In particular, you will need the following files:

- MrSID** for aeriels. This aerial, mosaic (1 file) is the best to use and its file size needs to be as small as possible
- .shp** for streets, roads and centerlines.
- .shp** for signals. StreetWise requires a field(column) called SIGNAL_NO which contains the StreetWise ID.

The **Central** installation requires the following third party programs if your system calls for GIS support. No additional configuration is required after installing these programs with the files listed above.

Microsoft Data Access Objects (DAO) version 3.5

MapObjects 2.1 from ESRI (see <http://support.esri.com>)



Trafficware can take existing ArcInfo or ArcView databases and integrate GIS as a System Map within the **Central**. Each GIS System Map provided with the system will be listed as a separate record in the **/nazserv/tables/gis.dbf** data file. For example, the following record in gis.dbf indicates there is one GIS map available in the system.

C:\nazserv\TABLES\gis.dbf	
ID	NAME
1	City of Pleasanton

ID number "1" from **gis.dbf** is used to reference another database on the server (in this case **gis0001.dbf**). This file contains 3 records that store the location of ESRI shape files and the .tif map background from the customer's existing GIS system.

C:\nazserv\TABLES\gis0001.dbf		
LOCATION	FUNCTION	LABEL
\nazserv\gis\Signals.shp		SIGNAL_NO
\nazserv\gis\Centerlines.shp		ST_NAME
\nazserv\gis\HR_color_mosaic.tif		101

This database has three defined fields in the following order; *LOCATION*, *FUNCTION* and *LABEL*.

The first line in this file refers to the signal locations **.shp** file in the *LOCATION* field. This entry must contain a blank or 0 in the *FUNCTION* field and have SIGNAL_NO in the *LABEL* field.

The second line refers to the streets and roads centerlines **.shp** file in the *LOCATION* field. This entry must contain a 5 in the *FUNCTION* field and have the name of column in the GIS shape file with the street names in the *LABEL* field.

The third line refers to a file that is the aerial mosaic of your city or area. You should use one file and it needs to be as small as possible. The *LOCATION* field will refer to the .tif or **.sid** map background. This entry must contain a 101 in the *FUNCTION* field.

There are no other configuration issues involved with getting your existing GIS data integrated into the **Central**. Some customization of the shape files is required; however, Trafficware can easily provide this service working with the agency GIS manager.

OTHER NOTES:

- 1) The user should use what ever database editing tools that they have on hand, such as cdbf editor or Microsoft Access to edit the **gis.dbf** and the **gisxxx.dbf** files in the **/nazserv/tables/** directory. Be careful to only edit the appropriate fields discussed above and do not change the structure of these databases.
- 2) When considering changes to your GIS database such as adding new signals, do it using your GIS tools. For example, take the **.shp** file with the signal locations and edit it in GIS with whatever tool you use. Be sure to use the file from the GIS system, don't modify the structure of this file and when finished editing, return to the original location. The next time you bring up the **Central** it will access the GIS database with the new signals.

Summary

By working with a database editor in the directory **/nazserv/tables/** on files **gis.dbf** and **gisxxx.dbf** you can easily link the **Central** to your existing GIS database.

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