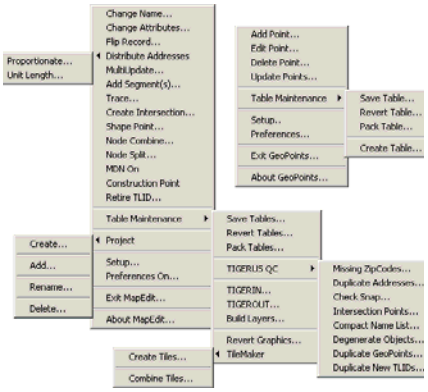
Introducing TIGERUS© Census Ready

We empower the people who manage TIGER/Line based geography.

TIGERUS© from International Computer Works, powered by MapInfo Professional, brings a level of ease-of-use never before offered by GIS to create spatially accurate and attribute enriched TIGER/Line Files for desktop mapping with **latest Census version**.

We bring you a GIS solution designed to integrate the latest TIGER/Line Files with your existing GIS base maps resulting in more accurate use.



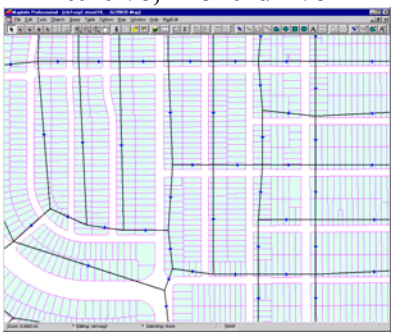
Intuitive, Menu driven

A solution based upon tried and true methods and tools,

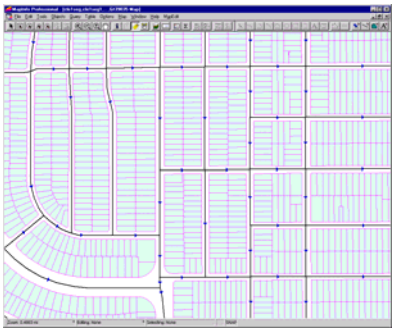
proven with end-user success represent the track record of the application we want to introduce into your office. With capabilities such as:

- Correcting a street name with up to five aliases
- Creating intersections with auto-distribution of addresses
- Adding new streets or entire sub-divisions
- Realign a lengthy shoreline as easily as drawing a polyline
- Correct addresses and ZIP codes for all the roads in the county
- Use TIGEROUT and Build Layers to create map layers including:

- US Census Blocks
- US Census Block Groups
- US Census Tracts
- County and City Boundaries
- Landmark areas and points
- Roads and points for geocoding
- Railroads and Airports
- Water boundaries and shoreline
- Major Roads
- Congressional Districts



Parcels and TIGER Before



Parcels and TIGER After

Designed for ease-of-use and strategically positioned to

combine the wealth of our national treasury of digital geography from the US Bureau of the Census TIGER/Line Files and local GIS data.

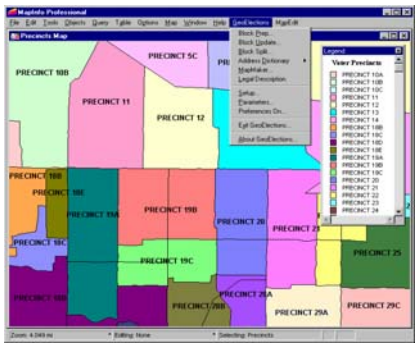
Map data built with TIGERUS© can be used with :

Traditional GIS

1. Maintain your center street line file with TIGER topology.
2. Create blocks, tracts, etc. that share the same geometry as local data.
3. Distribute the enhanced data (17 to 30 layers) to users who can benefit from a shared map library.
4. Use the enhanced data for redistricting school attendance zones, election precincts, or man power allocation in public safety.
5. Geocode data using ZIP5 as an attribute of the street segment.

New Technologies

1. Use the enhanced data for GPS driven automated vehicle location (AVL).
2. Populate your map enabled web site with data whether you serve up GIS or display maps for your end-users.
3. Use the enhanced data with vertically integrated applications such as **GeoSchools**, **GeoChoice**, **GeoBuilder**, or **GeoElections** also from ICW.
4. Link the new demographics from Census data to enhanced TIGER based geography.



Redistricting

TIGERUS© is Census ready!

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Following is a list of the items in the **MapEdit** pull down menu along with a brief overview of the functionality that each tool or command option offers.

1. Change Name
From a single dialog box the user may change the name of a segment feature for a single TLID or for all TLIDs with the same Reference Number. For roadway features denoted by an "A" type Census Feature Classification Code (CFCC), the user may edit a primary name and up to 5 alternate feature names.

2. Change Attributes
Permits the user to have direct edit control over the left and right address information for a segment (to and from addresses and 5 digit zip codes) and the CFCC for that segment. This tool is used on a single TLID at a time.

3. Flip Record
Provides the user with the means to reverse the line direction for a road segment thus converting the line to a forward encoded segment for making it easier to edit address ranges.

4. Distribute Addresses
Provides two methods of assigning address ranges to multiple road segments (**Proportionate** and **Unit Length**).

5. MultiUpdate
Assists the user to update the name, left and right zip codes, CFCC and Revert Graphics for a group of selected segments. For roadway features denoted by an "A" type Census Feature Classification Code (CFCC), the user may edit a primary name and up to 5 alternate feature names.

6. Add Segment
The user can add a new line representing any feature within the TIGER system. MapEdit presents the operator with a dialog box for entering the name and other attributes for the newly created segment.

7. Trace
Assists the user to keep track of edits to the geometry of line work through a change in line symbology consistent with the specifications set through the Preferences menu option.

8. Create Intersection
Every time the user adds a new linear feature (i.e. street or road, railroad, airstrip, creek, stream, etc.) and it intersects with an existing line, an intersection must be installed unless it is coincident with an existing intersection. MapEdit performs this very efficiently, even to the point of prompting the user for attribute information for the two new segments created.

9. Shape Point
There can be 9,990 shape points for a single TLID. With this tool the user can create a new shape for a selected TLID. This can result in the addition of shape points, deletion of shape points all transparent to the end user.

10. Node Combine
Allows the user to remove segments that create jogs at intersections that should be clean through streets.

11. Node Split
Allows the user to add jogs to intersections that appear in TIGER/Line as clean through streets but in fact are not.

12. MDN
Is a simple toggle between the setting "Move Duplicate Nodes in the Same Layer or None of the Layers". If two or more lines intersect at the same location they are said to share a node. With MDN on, the user can select a line and move the shared node and all of the lines will move with the first line. This is also referred to as rubber banding.

13. Construction Point
This command allows the user to snap a point to a line.

14. Retire TLID
In the TIGER system, **TLIDs do not get deleted**, they get retired. This tool allows the user to tag an object and MapEdit will assign a standard CFCC value that indicates the new status of the line.

15. Table Maintenance
Consists of a group of submenus that provide access to MapEdit functions which manage files as opposed to manipulating individual or groups of objects in a table. Following is a list of the items and a brief overview of the functionality represented by this menu group.

Save Tables will save multiple tables relieving the user from the need to perform multiple saves.

Revert Tables will revert multiple tables relieving the user from the need to perform multiple revert table commands.

Pack Tables will pack multiple tables relieving the user from the need to perform multiple packing operations.

TIGERUS QC is a set of diagnostic tools. These tools will make it easier to complete the task of creating the best enhanced TIGER/Line File possible. Following is a brief description of each of the menu items:

- **Missing ZIPCodes** operation will generate a file that contains a list of records that are missing a 5-digit ZIP Code.
- **Duplicate Addresses** operation will generate a file that contains a list of records that have duplicate or overlapping addresses for both primary and alternate feature names.
- **Check Snap** operation will generate a map table of points that identify the end points of lines that are not connected to an adjacent line, but fall within a user specified snap tolerance.
- **Intersection Points** will build a table of points that are snapped to the intersections of the segments within a table of linear features (i.e. lines and polylines).
- **Compact Name List** operation is designed to eliminate names that entered into the TIGERUS database and subsequently modified, leaving the initial name unused.
- **Degenerate Objects** will analyze the contents of TGR1 for zero length line objects and present the user with a table of points that mark the location of the objects to be repaired.
- **Duplicate GeoPoints** detects multiple occurrences of records and reduces the set to one, additionally. it creates a list of records that have duplication of the three fields used for geocoding.

TIGER In will import TIGER/Line Files into a project for purposes of editing with the **MapEdit** and **GeoPoints**.

TIGER Out will export the current database contained in a project generating enhanced TIGER/Line Files. An option to run Build Layers will generate map data from these enhanced TIGERs.

Build Layers accesses the integrated **Universal TIGER Translator** (**UTT**) that converts either the original or enhanced TIGER/Line Files into mapped layers for day-to-day use.

Revert Graphics will restore the symbology of a file that has been edited with Preferences on to the original styles.

TileMaker is a utility used to divide a TIGER database into smaller units of geography or restore the units to a single database. These two functions are performed with the **Create Tiles** and **Combine Tiles** menu options. Because of the special nature of this function, the instructions for the use of TileMaker are reserved for a separate chapter at the end of this manual.

16. Project
The Project menu options create and manage directories and files. A MapEdit database consists of many directories and files. For the user's convenience the database is managed as a project. Following is a brief overview of this functionality.

Create allows the user to register and create a project.

Add allows the user to register an existing project.

Rename allows the user to rename a registered project.

Delete allows the user to remove a project from the system.

17. Setup
To initiate a work session with an existing project, the user goes through Setup. This feature allows the user to select a project. For projects that have been tiled, the user can also specify the individual tile.

18. Preferences
Allows the user to change the graphical representation for features that are edited, verified, or node combined. Also, permits specifying the number of feet in a unit for incrementing addresses in Unit Length addressing.

19. Exit MapEdit
This option exits MapEdit and removes it from the MapInfo Menu Bar. To get MapEdit back the user must launch MapInfo from the MapEdit Icon or execute the Tools>Run MapBasic Application.

20. About MapEdit
When the user selects this menu item, a dialog box displays the version and serial number of the active copy of MapEdit.