Information Technology Division / Geographic Systems Section

GEOSUPPORT SYSTEM TECHNICAL BULLETIN 12-04

SUBJECT: Version 11.5 Enhancements

Coordinated Release: 12C

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Target audience: All Geosupport users

Introduction

The principal enhancements to Geosupport for **Geosupport Version 11.5** include:

I. Normalization of Street Names is enhanced to Delete Blanks that Appear Before and/or After Slashes (/) and Dashes (-). (COW and MSW)
II. Function 2 (intersection processing) has been enhanced to return more appropriate information to the user. (COW and MSW)
III. The acronym GOAT has been redefined as 'Geographic Online Address Translator'
IV. Internal system enhancements were made to improve system performance and maintenance. (COW and MSW)
V. Miscellaneous bugs were fixed.

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User Programming Considerations

I. Normalization of Street Names is enhanced to Delete Blanks that appear Before and/or After Slashes (/) and Dashes (-) (COW and MSW)

To improve readability, normalization processing will delete any blanks that appear before and/or after a slash (/) or a dash (-) in a street name. The normalization process will also not generate any such blanks. In the case where there is a numeric before or after the slash or dash, the numeric will now be treated as alphabetic. As a result, no blanks will be inserted for alignment purposes when the sort format is requested. Also, for the compact format, a single blank will no longer be inserted between a slash or a dash and the number.

In the following examples, both the Sort and Compact Options are shown. Note that prior to Version 11.5, when the Sort option is on, additional blanks are added to the numerics for purposes of alignment. (This feature is described in the *User Programming Guide*, Section III.3)

Sort/ Compact	Input Name	Prior Software e.g. Version 11.4	New Software Version 11.5
Sort	J SMITH 9/11	J SMITH 9 / 11	J SMITH 9/11
Compact	J SMITH 9/11	J SMITH 9 / 11	J SMITH 9/11
Sort	I-95	I- 95	I-95
Compact	I-95	I- 95	I-95
n/a	ABC / DEF	ABC / DEF	ABC/DEF

In general, this improvement typically does not affect the user's programming and program execution. There are some rare cases where a street code will be replaced by a new street code. If you are storing street codes in your files, please resynchronize the files. The resynchronization process is described in the *User Programming Guide*, Section IV.4. Note that re-synchronization is recommended with every release.

II. Function 2 (Intersection Processing) has been enhanced to return more appropriate information. (COW and MSW)

Implementation of enhancements to intersection processing enables Function 2 to return more appropriate information. Special handling has been given to Coincident Streets and streets where two street names having different B5SCs are both valid (a.k.a. Special Address 'Type B' situation).

Some examples of the enhanced intersection processing follow:

Consider the situation of coincident street features, e.g. 3rd Avenue and Gowanus Expressway in Brooklyn. The Gowanus Expressway is physically above 3rd Avenue between approximately 18th Street and 65th Street.

- Previously if a user made a Function 2 call requesting information about the intersection of 3rd Avenue and Gowanus Expressway, Geosupport rejected the call. The call was rejected because Geosupport considered each of the streets where the two streets were coincident (e.g. 23 Street, 24 Street, etc.) as actual intersections. Geosupport's error message indicated that the input streets intersected more than twice. Now, Geosupport recognizes only the two points where the streets actually intersect. When the user supplies a compass direction, the Function 2 call will be accepted and processed.

Consider the situation where two street names, with different street codes (B5SCs), are valid for the same street at an intersection. An example exists in The Bronx on Throgs Neck Expressway (the service road). For this service road, East 177 Street is also valid, even though East 177 Street has a different B5SC. That portion of Throgs Neck Expressway where East 177 Street is also valid, is considered to be a Special Address SAF 'Type B' situation. The situation exists at the intersection with Sampson Avenue. Both Throgs Neck Expressway and East 177 Street are valid at the intersection with Sampson Avenue.

- Previously, a Function 2 call was accepted if Throgs Neck Expressway was submitted as an input street intersecting with Sampson Avenue; however, the call was rejected if East 177 Street (which is also valid for the same street as Throgs Neck Expressway) was submitted as an input street intersecting with Sampson Avenue. Now, the Function 2 call will be accepted with either street name (Throgs Neck Expressway or East 177 Street) as an input street intersecting with Sampson Avenue.

III. The acronym GOAT has been redefined as 'Geographic Online Address Translator'

To use more generally understood terminology, the definition of GOAT has been changed from 'Geosupport Online Address Translator' to 'Geographic Online Address Translator'. The headings on the GOAT screens have been updated to reflect the new definition. No user changes are needed.

IV. Internal system enhancements were made to improve system performance and maintenance. (COW and MSW).

The areas of change were in normalization routines, distribution modules, and packaging.

V. Miscellaneous bugs were fixed.

Appendix A

TABLE OF GEOSUPPORT FUNCTIONS

Function	User Input	Selected Geosupport Output Items
1 & 1 Extended (a.k.a. 1X)	Address	Standardized Street Name and Street Code, Address Range, List of Cross Streets, Zip Code, Community District, Health Area, Health Center District, 1990 Census Tract, 2000 and 2010 Census Tract and Block, Fire Engine or Ladder Company, School District, Police Precinct, X-Y Coordinates (based on the State Plane Coordinate System)
1E &1E Extended (1EX)	Address	Same as for Function 1 + Political Geography (Election District, Assembly District, Congressional District, City Council District, Municipal Court District and State Senatorial District)
1A &1A Extended (a.k.a.1AX)	Address	Standardized Street Name and Street Code, Tax Block and Lot, Alternative Addresses for Lot, Building Identification Number, RPAD Building Class, Interior Lot Flag, Vacant Lot Flag, Irregularly-Shaped Lot Flag, Corner Code, etc.
1B	Address	Same as for Function 1E + Property Level Information from Function 1A + Street Names for Cross Streets and Address Lists
1N	Street Name	Standardized Street Name and Street Code (not available in the Desktop Edition of GOAT)
2	Pair of Intersecting Streets or Named Intersection	Standardized Street Name and Street Codes, List of Additional Cross Streets, Zip Code, Community District, Health Area, Health Center District, 1990, 2000 and 2010 Census Tract, Fire Districts, School District, Police Precinct, X-Y Coordinates (based on State Plane Coordinate System)
3 & 3 Extended (a.k.a. 3X)	On Street and a Pair of Consecutive Cross Streets	Standardized Street Names and Street Codes, Lists of Cross Streets at both ends, and information about both sides of the street, (including Zip Codes, Community Districts, Health Areas, Health Center Districts, 1990, 2000 and 2010 Census Tracts, Fire Districts, School Districts, Police Precincts)
3C & 3C Extended (a.k.a.3CX)	On Street and a Pair of Consecutive Cross Streets & a Compass Direction (Side of Street)	Same as Function 3 but for one side of the street only (Blockface information)
3S	On Street and an Optional Pair of any Intersecting Streets along the On Street	Street Stretch information: List of intersecting streets in order along 'on' street, the distance between them and node IDs
BF, BB	Character String	List of street names in alphabetic order - supports street name browsing
BL &BL Extended (a.k.a.BLX)	Tax Block and Lot	List of Addresses Ranges for Lot, List of Building Identification Numbers (BINs), RPAD Building Class, Interior Lot Flag, Vacant Lot Flag, Corner Code, etc.
BN &BN Extended (a.k.a.BNX)	Building Identification Number	List of Address Ranges for Building, Tax Block and Lot, RPAD Building Class, Interior Lot Flag, Vacant Lot Flag, Irregularly Shaped Lot Flag, Corner Code etc.
D,DG,DN	Street Code and/or House Number	Street Name and/or House Number in Displayable Format

Note: 'Extended' functions return additional data. (See Technical Bulletins for Versions 11.0 and 11.2)