City of New York Department of City Planning
Information Technology Division
Geographic Systems Section

GEOSUPPORT SYSTEM TECHNICAL BULLETIN 10-01

SUBJECT: Version 10.9 Enhancements

Date: October 28, 2010

Target audience: All Geosupport users

Introduction

The principal enhancements to Geosupport for Version 10.9 include:

I. Return Transitional Property Address Directory (TPAD) Building Identification Number (BIN) for Functions 1A, BL and BN (COW[1] only)
II. Reuse Geosupport Return Codes (GRCs) 69 and 70 in Conjunction with New Reason Codes
III. Miscellaneous Enhancements and Corrections

User Programming Considerations

I. Return Transitional Property Address Directory (TPAD) Building Identification Number (BIN) for Functions 1A, BL and BN (COW only)

A. What is the TPAD File?

The TPAD (Transitional Property Address Directory) file, allows users to get up-to-date property related information. Geosupport has three functions (1A, BL and BN) that access the Property Address Directory (PAD) file. The PAD file contains property level information and is updated on a quarterly basis. In order for users to get more up-to-date information regarding the status of new building construction and/or demolition, the Department of City Planning (DCP) has created the TPAD file.

The TPAD file is updated daily with new information received from the Department of Buildings (DOB) regarding job filings for new buildings (NB)[2]. In addition, changes in status of both NB and demolition (DM) jobs are updated weekly.

[1] Character-Only Work Area
[2] Earlier this year, DCP launched a system for DOB to obtain a new Building Identification Number (BIN) at the time that an applicant pre-files an application. This new system (Bin-on-Demand) should obviate DOB's need to assign what users refer to as 'dummy' BINs. The BINs that are newly assigned by Bin-on-Demand will be included in the TPAD file.

B. How to use the new functionality?

Geosupport users can set a new flag in Work Area 1 (the TPAD Switch). When this flag is set for a 1A, BL or BN call, Geosupport will read the TPAD file along with the PAD file, thereby returning more up-to-date information to users.

The TPAD Switch is located in position 329 of the COW Work Area 1. If the Flag is set to "Y", then the following TPAD information will be returned to the user:

Work Area 2 Fixed Portion
Status of DM Job for BIN of the Input Address
New BIN for NB Job for Input Address or BBL
Status of NB Job
Conflict Flag

Work Area 2 Address List
Status of Job for this BIN in the Address List

Status Values are as follows:

Value	Associated Job Type	Description
Space		No activity for this address
0	NB	New BIN issued by NB Job application not yet filed
1	NB	NB Job application filed and paid for
2	NB	NB Job signed off [temporary or final Certificate of Occupancy (T/CO or C/O) issued]
5	DM	DM Job application filed and paid for
6	DM	DM Job signed off (building demolished)

On occasion, there will be conflicts between the data in the PAD and the TPAD record. These will be reported via the Conflict Flag. In addition to a value in the conflict flag, a warning message (GRC 01) with a Reason Code of '*' will be returned to the user in the message area of Work Area 1, unless another Geosupport message takes precedence:

Conflict Flag	Description of Geosupport Warning Message
0	TPAD data found, no conflicts with PAD data
1	PAD found, no TPAD data found
2	TPAD BBL used, no existing PAD BBL
3	TPAD BBL used, PAD pseudo-address on different BBL than TPAD NB BIN
4	TPAD BBL used, existing PAD BIN of Input Address on different BBL than TPAD NB BIN
5	(Not implemented)
6	TPAD BBL used, existing PAD BIN of Input Address with DM-5 on different BBL than TPAD NB BIN

7	TPAD BBL used, existing PAD BIN of Input Address with DM-6 on different BBL than TPAD NB BIN
8	PAD BBL used, TPAD NB BIN with NB-0 on different BBL than PAD BIN
9	PAD BBL used, TPAD NB BIN with NB-1 on different BBL than PAD BIN
A.	PAD BBL used, TPAD NB BIN with NB-2 on different BBL than PAD BIN
B.	PAD BBL used, TPAD NB BIN with NB-3 on different BBL than PAD BIN
C.	TPAD data found, TPAD address overlaps PAD address
D.	Address Found in TPAD, not found in PAD
E.	BIN found in TPAD, not found in PAD

A blank or "N" in the TPAD Switch will result in Geosupport reading/accessing only the PAD file.

In GOAT, the TPAD information can be retrieved by entering a 'Y' in the "TPADData" field on the 1A, BL and BN pages.

The GBAT control card is TPADDATA, with values of 'YES' or 'NO'.

Please note that updated TPAD data will not be available in the Desktop version of Geosupport at this time. We are in the process of developing a way to make this data available to users in the future.

The following tables show the field names of the various TPAD-related fields in COW Work Area 1 and Work Area 2.

<u>TPAD Request Switch (Work Area 1)</u>

Language	**Label (COW) (Column 329-329)**	**Label (MSW)**
BAL	P1ITPADS	Not Applicable
C	tpad_switch	Not Applicable
COBOL	PIWA1-IN-TPAD-SWITCH	Not Applicable
PL/1	PIWA1_IN_TPAD_SWITCH	Not Applicable
Natural	PIWA1-IN-TPAD-SWITCH	Not Applicable

TPAD BIN of Input Address Status (Work Area 2)

Language	Label (COW) (Column 220-220)	Label (MSW)
BAL	P21ATPBS	Not Applicable
C	TPAD_bin_status	Not Applicable
COBOL	PIWA2-1A-TPAD-BIN-ST	Not Applicable
PL/1	PIWA2_IA_TPAD_BIN_ST	Not Applicable
Natural	PIWA2-1A-TPAD-BIN-ST	Not Applicable

TPAD New BIN (Work Area 2)

Language	Label (COW) (Column 221-227)	Label (MSW)
BAL	P21ATPNB	Not Applicable
C	TPAD_new_bin	Not Applicable
COBOL	PIWA2-1A-TPAD-NEW-BIN	Not Applicable
PL/1	PIWA2_IA_TPAD_NEW_BIN	Not Applicable
Natural	PIWA2-1A-TPAD-NEW-BIN	Not Applicable

TPAD New BIN Status (Work Area 2)

Language	Label (COW) (Column 228-228)	Label (MSW)
BAL	P21ATPNS	Not Applicable
C	TPAD_new-bin_status	Not Applicable
COBOL	PIWA2-1A-TPAD-NEW-BIN-ST	Not Applicable
PL/1	PIWA2_IA_TPAD_NEW_BIN_ST	Not Applicable
Natural	PIWA2-1A-TPAD-NEW-BIN-ST	Not Applicable

TPAD Conflict Flag (Work Area 2)

Language	Label (COW) (Column 229-229)	Label (MSW)
BAL	P21ATPCF	Not Applicable
C	TPAD_conflict_flag	Not Applicable
COBOL	PIWA2-1A-TPAD-CONFLICT	Not Applicable
PL/1	PIWA2_1A_TPAD_CONFLICT	Not Applicable
Natural	PIWA2-1A-TPAD-CONFLICT	Not Applicable

C. Geosupport TPAD Request Usage Clarification

Because of the transitional nature of the data that can be returned by requesting the TPAD data, interpreting the data can sometimes be confusing. This section will describe how this transitional information is returned and try to reduce some of this confusion. The user should note, however, some situations will be inherently confusing and will require additional Geosupport function calls to clarify the situation.

The BIN of Input Address field will contain the BIN of a building that existed at the time of the Geosupport release.

Relationship of the BIN of Input Address field to input for Geosupport 1A, BL, BN calls:

1A The content of the BIN of the Input Address will be the BIN associated with the input address (if any).

BL For most BBLs the content will be the single BIN associated with the input BBL. For those BBLs that have multiple associated BINs, this will be one of the BINs. There is no way of determining which BIN it will be.

BN The content will always be the input BIN.

The goal of the Transitional PAD Data (TPAD) enhancements is to supplement the above information with data maintained in the Transitional PAD file. To accomplish this, Geosupport first makes a regular 1A, BL, or BN call. It then reads the Transitional PAD file for additional information. Three new fields (not including the TPAD Request Switch and Conflict Flag) have been added to WA2 to reflect this TPAD information. The **TPAD New BIN field** will contain the BIN that has recently been issued for potential new construction. The **TPAD BIN of Input Address Status field** will hold the status for the BIN of Input Address field and the **TPAD New BIN Status field** will hold the status for the TPAD New BIN field.

TPAD Status For BIN of Input Address	**Interpretation**
Space	building exists, there is no demolition pending
0	this status will not be used here
1	this status will not be used here
2	building previously did not exist, but new building issued C/O after last PAD release
5	building exists; a DM permit has been paid for
6	building previously existed; DM was signed off after last PAD release

TPAD New BIN will contain a newly assigned BIN for the input address.

TPAD Status
For TPAD

New BIN	**Interpretation**
Space	only if there is no TPAD New BIN
0	a new BIN has been assigned to the address, but its purpose is unknown
1	a new BIN has been assigned and a New Building Job has been paid for at DOB
2	a new BIN has been assigned and the building has been given a T/CO or C/O by DOB
5	this status will not be used here
6	this status will not be used here

Address List TPAD Enhancements

For regular 1A, BL, and BN calls, the Address List contains alternate addresses associated with the BBL for 1A and BL calls and with the BIN for BN calls. Each entry represents an address range and the BIN (if any) associated with this address. For TPAD enhancements we have done two things. We added a TPAD status field for each address entry. And, we have changed the order of the display of Addresses in the list. We list the BIN of Input Address first, followed by New Bins, if any, followed by Demolitions, followed by the rest of the addresses in the PAD record. For Long Work Area 2 requests, we have added a new field for each BIN, the TPAD Status field. Only 2187 BINs will be displayed in the Long Work Area 2 for TPAD requests.

Address List entries that existed at the time of the Geosupport Release

TPAD Status

For Existing BIN	**Interpretation**
Space	building exists, there is no demolition pending
0	this status will not be used here
1	this status will not be used here
2	this status will not be used here
5	building exists; a DM permit has been paid for
6	building previously existed; DM was signed off after last PAD release

Address List entries with TPAD New BIN will contain a newly assigned BIN for the input address.

TPAD Status

For TPAD New BIN	**Interpretation**
Space	this status will not be used here
0	a New BIN has been assigned to the address, but its purpose is unknown
1	a New BIN has been assigned and a New Building Job has been paid for at DOB
2	a New BIN has been assigned and the building has been given a T/CO or C/O by DOB
5	this status will not be used here
6	this status will not be used here

II. Reuse Geosupport Return Codes (GRCs) 69 and 70 in Conjunction with New Reason Codes

Currently in Geosupport, GRC 69 indicates that an invalid value has been used for a Switch or Flag, and GRC 70 indicates that the Switch in not valid for the Function being requested. These values will now be reused for all new switches and flags in conjunction with a unique value in the Reason Code as follows:

GRC 69, Reason Code A – Invalid Value in Auxseg Request Switch
GRC 69, Reason Code B – Invalid Value in TPAD Request Switch
GRC 70, Reason Code A – Auxseg Request not valid with Function requested
GRC 70, Reason Code B – TPAD Request not valid with Function requested

III. Miscellaneous Enhancements and Corrections

Various minor reported bugs have been fixed.

TABLE OF GEOSUPPORT FUNCTIONS

Function	User Input	Selected Geosupport Output Items
1	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 Census Tract and block, Fire Engine or Ladder Company, School District, Police Precinct, XY Coordinates (based on the State Plane Coordinate System)
1E	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	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.
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, 1990 and 2000 Census Tract, Fire Districts, School District, Police Precinct, XY Coordinates (based on State Plane Coordinate System)
3	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, 1990 and 2000 Census Tracts, Fire Districts, School Districts, Police Precincts)
3C	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 Street 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	Tax Block and Lot	List of Addresses for Lot, List of Building Identification Numbers (BINs), RPAD Building Class, Interior Lot Flag, Vacant Log Flag, Flag, Corner Code, etc.
BN	Bldg 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