



Location Intelligence

Centrus[®] Desktop

6.07.00.N Release

Technical Notes



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Introduction

Pitney Bowes is pleased to announce the release of Centrus Desktop 6.07.00.N. This release is available for Internet download from the Pitney Bowes eStore.

Listed below is an overview of the release documentation, regulatory information, release highlights and database compatibility for this release. With this release, we have rebranded the “Centrus Product Suite” to “GeoStan Geocoding Suite”. This change will be reflected on the Support site as well; see the updated link below.

Although we will continue to provide Level 1 technical support for Centrus Desktop 6.06.00.N, any future product updates will only be provided for the Centrus Desktop 6.07.00.N release.

Release Documentation

The technical notes and installation guides for the different Pitney Bowes products are available for download from the Pitney Bowes GeoStan Suite Support site at <https://www.pitneybowes.com/us/support/products/software/geostan-support.html>.

To access these documents, log into the Support site and select **Documentation**. Then, select **Technical Product Info** for the technical notes or **Installation Guides** for the installation documentation.

Regulatory Changes

The implementation date for CASS Cycle O has been deferred by the United States Postal Service® (USPS®) until August 1, 2021. The USPS Coding Accuracy Support System (CASS™) Cycle N will be valid through July 31, 2021. The USPS reserves the right to modify the “valid through” date in the future if conditions warrant it. Centrus Desktop is CASS Certified for Cycle N in the 6.07.00.N release version.

Highlights and General Enhancements

- **Added Master Location Data (MLD) Extended Attributes**
Extended Attributes are now available with MLD. This new feature provides access to extended attributes associated with an addressable location that has a pbKey. When matching addresses with MLD, you can now seamlessly return additional property information associated with the address, such as APN, Elevation, Address Type, Lot Size, etc. See [MLD Extended Attributes including APN and Elevation](#) below.
- **Added Residential Delivery Indicator (RDI™)**
This United States Postal Service (USPS®) data product identifies whether a delivery type is classified as residential or business. If you are shipping to residences, you may lower costs by shipping with the Postal Service™ and avoid residential delivery surcharges typically charged by other shipping companies. See [Residential Delivery Indicator \(RDI™\)](#) below.
- **Improvements to Singleline Address Matching**
Several enhancements to singleline matching; see [Singleline Matching Enhancements](#) below.

Product Updates

MLD Extended Attributes including APN and Elevation

Added Master Location Data (MLD) Extended Attributes

Extended Attributes are now available with MLD. This new feature provides access to extended attributes associated with an addressable location that has a pbKey. When matching addresses with MLD, you can now seamlessly return additional property information associated with the address, such as APN, Elevation, Address Type, Lot Size, etc. See the full list of fields detailed below.

Requirements

The following are required to access MLD Extended Attributes:

- Master Location Dataset (.gsd and .gsi files).
- Streets data set.
- MLD Extended Attributes data set (extatt*p.dld files).
- It is recommended that the vintages of the MLD and MLD Extended Attributes data sets be within 4 months of each other.

Implementation

1. Set up your data.
 - Install the MLD and streets data sets and their associated license files. Note the paths to these folders.
 - Install the MLD Extended Attributes data set. The MLD Extended Attributes data set needs to be unzipped and copied to a folder. Note the path to this folder.
 - Define the data paths to DVDMLD, DVDMLD2 and the folder where you installed the MLD Extended Attributes data set, as well as any other geocoding data sets you have installed for your application. Define the paths to the associated license files and passwords.
2. The MLD Extended Attributes data is delivered in 5 separate .dld files, extatt*p.dld, where "*" is a number. When installed, GeoStan will automatically detect and load these files, and set the Status File MLD Extended Attributes property. When initializing GeoStan, you can optionally query the Status File MLD Extended Attributes property to confirm the extatt*p.dld files loaded successfully.

C	GS_STATUS_FILE_MLD_EXTENDED_ATTR
JAVA	STATUS_FILE_MLD_EXTENDED_ATTR
.NET	GS_STATUS_FILE_MLD_EXTENDED_ATTR
COBOL	GS-STATUS-FILE-EXTEND-ATTR

C sample code:

```
GsPropGetBool (&statusProps, GS_STATUS_FILE_MLD_EXTENDED_ATTR, &bVal);  
  
if (!bVal) {  
    printf("MLD Extended Attribute data failed to initialize.\n");  
    exit(1);  
}
```

3. Process the match by calling the Find Properties function.

4. The following table describes how to return APN and elevation data when available.

APN & Elevation are returned using the existing enums. Elevation is returned in feet using the existing enum. Optionally, elevation data can now be returned in meters using the appropriate, new enum. The following table details the existing enums for returning APN & Elevation, with elevation in feet. The second enum for elevation provides the elevation in meters.

C	<p>For APN: Use GsDataGet to return GS_APN_ID.</p> <p>For elevation: Use GsDataGet to return GS_PARCEN_ELEVATION or GS_PARCEN_ELEVATION_METERS</p>
JAVA	<p>For APN: Use getData to return APN_ID.</p> <p>For elevation: Use getData to return PARCEN_ELEVATION or PARCEN_ELEVATION_METERS</p>
.NET	<p>For APN: Use GsDataGet to return GS_APN_ID.</p> <p>For elevation: Use GsDataGet to return GS_PARCEN_ELEVATION or GS_PARCEN_ELEVATION_METERS</p>
COBOL	<p>For APN: Use GSDATGET to return GS-APN-ID.</p> <p>For elevation: Use GsDataGet to return GS-PARCEN-ELEVATION or GS-PARCEN-ELEVATION-METERS</p>

C sample code:

```
GsDataGet(gs, GS_OUTPUT, GS_APN_ID, apn, sizeof(apn));
GsDataGet(gs, GS_OUTPUT, GS_PARCEN_ELEVATION, elevation,
          sizeof(elevation));
```

MLD Extended Attributes

Additional enums for the MLD Extended Attributes dataset are listed below for each API.

C or .NET

GeoStan enum C or .NET	Width— includes null terminator	Description
GS_ADDRTYPE	2	Address Type regarding number of units: <ul style="list-style-type: none"> • S – Single unit • M – Multiple units • P – Post Office box • X – Unknown
GS_APN_ID	46	Assessor's Parcel Number (APN).
GS_INC_IND	2	Incorporated Place Indicator. <ul style="list-style-type: none"> • I – Incorporated place • N – Not an incorporated place • X – Unknown
GS_LOTSIZE	11	Lot size of the parcel expressed in square feet; 0 if none.
GS_LOTSIZE_METERS	11	Lot size of the parcel expressed in square meters; 0 if none.
GS_MEC_LAT	13	Latitude of Minimum Enclosing Circle expressed with an implied 6 digits of decimal precision; 0 if none. Example: 34809676 means 34.809676
GS_MEC_LON	13	Longitude of Minimum Enclosing Circle expressed with implied 6 digits of decimal precision; 0 if none. Example: -92447089 means -92.447089.
GS_MEC_RAD	12	Radius of Minimum Enclosing Circle (in feet) expressed as a whole number. Example: 1234 means 1,234 feet.
GS_MEC_RAD_METERS	12	Radius of Minimum Enclosing Circle (in meters) expressed with 1 digit of decimal precision; 0 if none. Example: 123.4 meters.
GS_PARCEN_ELEVATION	7	Elevation of the geocode at the parcel centroid in feet.
GS_PARCEN_ELEVATION_METERS	7	Elevation of the geocode at the parcel centroid in meters.
GS_RESBUS	2	Usage indicator <ul style="list-style-type: none"> • R – Residential use • B – Business use • M – Mixed use – residential and business • X – Unknown use
GS_TFID	10	TIGER Face Identifier. This field can be used to match to all Census geocodes using external data; 0 if none.
GS_PLACE	8	TIGER Place code; 0 if none.

GS_UACE	6	TIGER Urban Area Identifier. Defines the urban area if any; 0 if none.
GS_UACEPOP	11	Census population of the urban area; 0 if none.
GS_URBANICITY	2	Urbanicity Indicator. An indicator that defines per the Census the Urbanicity of the Address using TIGER UACE codes for categorization. <ul style="list-style-type: none"> • L – Large Urban Area (50,000 or greater population) • S – Small Urban Area (2,500-50,000 population) • R – Rural • X – Unknown

COBOL

GeoStan enum COBOL	Width— includes null terminator	Description
GS-ADDRTYPE	2	Address Type regarding number of units: <ul style="list-style-type: none"> • S – Single unit • M – Multiple units • P – Post Office box • X – Unknown
GS-APN-ID	46	Assessor’s Parcel Number (APN).
GS-INC-IND	2	Incorporated Place Indicator. <ul style="list-style-type: none"> • I – Incorporated place • N – Not an incorporated place • X – Unknown
GS-LOTSIZE	11	Lot size of the parcel expressed in square feet; 0 if none.
GS-LOTSIZE-METERS	11	Lot size of the parcel expressed in square meters; 0 if none.
GS-MEC-LAT	13	Latitude of Minimum Enclosing Circle expressed with an implied 6 digits of decimal precision; 0 if none. Example: 34809676 means 34.809676
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GS-PARCEN-ELEVATION	7	Elevation of the geocode at the parcel centroid in feet.

GeoStan enum COBOL	Width— includes null terminator	Description
GS-PARCEN-ELEVATION-METERS	7	Elevation of the geocode at the parcel centroid in meters.
GS-RESBUS	2	Usage indicator <ul style="list-style-type: none"> • R – Residential use • B – Business use • M – Mixed use – residential and business • X – Unknown use
GS-TFID	10	TIGER Face Identifier. This field can be used to match to all Census geocodes using external data; 0 if none.
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GS-UACEPOP	11	Census population of the urban area; 0 if none.
GS-URBANICITY	2	Urbanicity Indicator. An indicator that defines per the Census the Urbanicity of the Address using TIGER UACE codes for categorization. <ul style="list-style-type: none"> • L – Large Urban Area (50,000 or greater population) • S – Small Urban Area (2,500-50,000 population) • R – Rural • X – Unknown

Java

GeoStan enum Java	Width— includes null terminator	Description
ADDRTYPE	2	Address Type regarding number of units: <ul style="list-style-type: none"> • S – Single unit • M – Multiple units • P – Post Office box • X – Unknown
GS_APN_ID	46	Assessor’s Parcel Number (APN).
INC_IND	2	Incorporated Place Indicator. <ul style="list-style-type: none"> • I – Incorporated place • N – Not an incorporated place • X – Unknown
LOTSIZE	11	Lot size of the parcel expressed in square feet; 0 if none.
LOTSIZE_METERS	11	Lot size of the parcel expressed in square meters; 0 if none.
MEC_LAT	13	Latitude of Minimum Enclosing Circle expressed with an implied 6 digits of decimal precision; 0 if none. Example: 34809676 means 34.809676
MEC_LON	13	Longitude of Minimum Enclosing Circle expressed with implied 6 digits of decimal precision; 0 if none. Example: -92447089 means -92.447089.
MEC_RAD	12	Radius of Minimum Enclosing Circle (in feet) expressed as a whole number. Example: 1234 means 1,234 feet.
MEC_RAD_METERS	12	Radius of Minimum Enclosing Circle (in meters) expressed with 1 digit of decimal precision; 0 if none. Example: 123.4 meters
PARCEN_ELEVATION	7	Elevation of the geocode at the parcel centroid in feet.
PARCEN_ELEVATION_M ETERS	7	Elevation of the geocode at the parcel centroid in meters.
RESBUS	2	Usage indicator <ul style="list-style-type: none"> • R – Residential use • B – Business use • M – Mixed use – residential and business • X – Unknown use
TFID	10	TIGER Face Identifier. This field can be used to match to all Census geocodes using external data; 0 if none.
PLACE	8	TIGER Place code; 0 if none.
UACE	6	TIGER Urban Area Identifier. Defines the urban area if any; 0 if none.

GeoStan enum Java	Width— includes null terminator	Description
UACEPOP	11	Census population of the urban area; 0 if none.
URBANICITY	2	Urbanicity Indicator. An indicator that defines per the Census the Urbanicity of the Address using TIGER UACE codes for categorization. <ul style="list-style-type: none"> • L – Large Urban Area (50,000 or greater population) • S – Small Urban Area (2,500-50,000 population) • R – Rural • X – Unknown

Residential Delivery Indicator (RDI™)

The Residential Delivery Indicator (RDI™) is a United States Postal Service (USPS®) data product that identifies whether a delivery type is classified as residential or business. If you are shipping to residences, you may lower costs by shipping with the Postal Service™ and avoid residential delivery surcharges typically charged by other shipping companies.

Added a new enumerator (enum) and output status properties to support RDI.

Note: To use RDI, Delivery Point Validation (DPV) must also be initialized.

New Init Property

Opens the USPS RDI file (rdi.db) needed to return a value for the Residential Delivery Indicator; maximum of 255 characters. Requires Delivery Point Validation (DPV).

C	GS_INIT_RDI_DIRECTORY
COBOL	GS-INIT-RDI-DIRECTORY
JAVA	INIT_RDI_DIRECTORY
.NET	GS_INIT_RDI_DIRECTORY

New Status RDI File Property

The new file status confirms the USPS RDI data (rdi.db) has loaded. Boolean. True = file loaded successfully. Default = False.

C	GS_STATUS_RDI_FILE_ALL
COBOL	GS-STATUS-RDI-FILE-ALL
JAVA	STATUS_RDI_FILE_ALL
.NET	GS_STATUS_RDI_FILE_ALL

New RDI output enum

USPS Residential Delivery Indicator (requires DPV-confirmed ZIP+4)

Y= Residence, N = Business, Blank = Address was not presented to RDI or RDI data not loaded.

C	GS_RDI_RETCODE
COBOL	GS-RDI-RETCODE
JAVA	RDI_RETCODE
.NET	GS_RDI_RETCODE

New Property RDI_DATAPATH (Optional)

Specifies the folder name and path for the Residential Delivery Indicator (RDI™) data, rdi.db. It is only required if you are using the RDI functionality in your application.

Syntax

RDI_DATAPATH = path/<file>

Type

String of path and file name.

C++ Example

```
RDI_DATAPATH = s:data\April05
```

Implementation

1. Set the `GS_INIT_RDI_DIRECTORY` init property to the directory containing the USPS RDI data (`rdi.db`).
Note: maximum of 255 characters.
2. Verify the `GS_STATUS_RDI_FILE_ALL` property is "True". This indicates the RDI data loaded successfully.
3. Process the addresses.
4. Values are returned in the GeoStan output field `GS_RDI_RETCODE`.
 - Y – address is a residence
 - N – address is a business
 - Blank – address was not presented to RDI or RDI data not loaded

Added output field (optional) for RDI

To retrieve the indicator, use this GeoStan output field:

Output Field	Data Type N—numeric C—char string	Width— includes null terminator	Number of decimals if numeric	Description
RDIretCode	C	2	0	USPS Residential Delivery Indicator (RDI) return code description: <ul style="list-style-type: none">• Y = Residence• N = Business• Blank = Not processed through RDI.

Singleline Matching Enhancements

Several improvements were made to singleline matching:

Description
<p>Improved singleline matching for PO Boxes when entered as POST OFFICE BOX, or when the number is preceded by #.</p> <p>Improvements have been made in handling of street names that could also be city names in singleline address processing. For example:</p> <p>Input address: BOX 58 ASHAWAY RI 02804</p> <p>Previous match: 58 ASHAWAY RD, 02804</p> <p>New match: BOX 58, ASHAWAY RI 02804</p> <p>Input address: BARCLAY PLZ APT 68G NEW WINDSOR NY 12553</p> <p>Previous match: 68G NEW ST, NEW WINDSOR, NY 12553</p> <p>New match: 68G BARCLAY PLZ, NEW WINDSOR, NY 12553</p>
<p>Enhancements have been made in singleline POI matching to recognize one or more embedded POIs. For example:</p> <p>Input address: FIRST SHORE FEDERAL SAVINGS & LOAN W GREEN ST & PEARL ST SNOW HILL</p> <p>Result: FIRST SHORE FEDERAL SAVINGS & LOAN, SNOW HILL MD 21863</p>
<p>Improved standard singleline addr2 handling. For example:</p> <p>Input address: MARVIN R BECK PT 1108 E PATTERSON/ POB 160 KIRKSVILLE MO 63501</p> <p>Previous match: PO BOX 160</p> <p>New match: 1108 E PATTERSON ST</p>
<p>Improved handling of singleline input addresses with missing or out of range house numbers. Matches and non-matches are now returned more accurately.</p>
<p>Improved handling and reporting of singleline matching of addresses containing multiple intersections when using Master Location Data. For example: 8th & laurel & 9th 21851.</p>
<p>Enhancements have been made in POI matching for the following cases:</p> <ul style="list-style-type: none">• Singleline input address containing a POI that ends with a city name that matches a given ZIP Code. For example: CHARTER HOSP OF DENVER 80228• Singleline input address containing a POI that ends with a state name that matches a given ZIP Code. For example: BANK OF COLORADO 80720• Two-line or singleline input address containing a POI that ends with a number. For example: KBIQ 102 7 80920

Matching Enhancements

Additional improvements were made to matching:

Description

Improved handling and matching of PO Box addresses that contain a “#” sign in front of the box number; for example, PO BOX #14.

New GS_IS_ALIAS return values:

- “A13” is returned when a match is made to ZIPMove data.
- “A14” is returned when a match is made to the expanded centroid file us_cent.gsc (file contained in the Master Location Structure Centroid data set).

Fixed Change Requests and Known Issues

Fixed Change Requests

The list below represents all of the change requests and software defects addressed in this release. Please review this list carefully to determine whether the following corrections apply to your situation.

Item Number	Change Request	Description																																																																																
CENTRUS-11027	Case 17939135	When an input address contains an intersection in the address line, it now processes correctly and returns match information. Example: 1 Rt 8 and 30 PO Box 182, Speculator, NY 12164																																																																																
CENTRUS-11100	Case 18929830	Corrected an issue where the output ZIP was not being corrected on a matched address, if the input ZIP was invalid or missing and the Prefer Zip Over City option was being used. Example: Incorrect ZIP <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <p>Before</p> <table border="1"> <thead> <tr> <th>Address</th> <th>CITY</th> <th>State</th> <th>POSTCODE</th> <th>outMatchCode</th> <th>outLocCode</th> <th>outCityPref</th> <th>outState</th> <th>outZip</th> <th>outZIP4</th> </tr> </thead> <tbody> <tr> <td>107 PRESTON RD</td> <td>Cheektowaga</td> <td>NY</td> <td>H2N1Y</td> <td>S800</td> <td>AS0</td> <td>BUFFALO</td> <td>NY</td> <td>H2N1Y</td> <td>3626</td> </tr> </tbody> </table> <p>After</p> <table border="1"> <thead> <tr> <th>Address</th> <th>CITY</th> <th>State</th> <th>POSTCODE</th> <th>outMatchCode</th> <th>outLocCode</th> <th>outCityPref</th> <th>outState</th> <th>outZip</th> <th>outZIP4</th> </tr> </thead> <tbody> <tr> <td>107 PRESTON RD</td> <td>Cheektowaga</td> <td>NY</td> <td>14215</td> <td>S800</td> <td>AP05</td> <td>BUFFALO</td> <td>NY</td> <td>14215</td> <td>3626</td> </tr> </tbody> </table> </div> Example: Missing Zip <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <p>Before</p> <table border="1"> <thead> <tr> <th>Address</th> <th>CITY</th> <th>State</th> <th>POSTCODE</th> <th>outMatchCode</th> <th>outLocCode</th> <th>outCityPref</th> <th>outState</th> <th>outZip</th> <th>outZIP4</th> </tr> </thead> <tbody> <tr> <td>8649 11TH AVE</td> <td>SILVER SPRING</td> <td>MD</td> <td>0</td> <td>S800</td> <td>AS0</td> <td>SILVER SPRING</td> <td>MD</td> <td>00000</td> <td>3203</td> </tr> </tbody> </table> <p>After</p> <table border="1"> <thead> <tr> <th>Address</th> <th>CITY</th> <th>State</th> <th>POSTCODE</th> <th>outMatchCode</th> <th>outLocCode</th> <th>outCityPref</th> <th>outState</th> <th>outZip</th> <th>outZIP4</th> </tr> </thead> <tbody> <tr> <td>8649 11TH AVE</td> <td>SILVER SPRING</td> <td>MD</td> <td>20903</td> <td>S900</td> <td>AP02</td> <td>SILVER SPRING</td> <td>MD</td> <td>20903</td> <td>3203</td> </tr> </tbody> </table> </div>	Address	CITY	State	POSTCODE	outMatchCode	outLocCode	outCityPref	outState	outZip	outZIP4	107 PRESTON RD	Cheektowaga	NY	H2N1Y	S800	AS0	BUFFALO	NY	H2N1Y	3626	Address	CITY	State	POSTCODE	outMatchCode	outLocCode	outCityPref	outState	outZip	outZIP4	107 PRESTON RD	Cheektowaga	NY	14215	S800	AP05	BUFFALO	NY	14215	3626	Address	CITY	State	POSTCODE	outMatchCode	outLocCode	outCityPref	outState	outZip	outZIP4	8649 11TH AVE	SILVER SPRING	MD	0	S800	AS0	SILVER SPRING	MD	00000	3203	Address	CITY	State	POSTCODE	outMatchCode	outLocCode	outCityPref	outState	outZip	outZIP4	8649 11TH AVE	SILVER SPRING	MD	20903	S900	AP02	SILVER SPRING	MD	20903	3203
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CENTRUS-11341	Case 20071807	When doing last line geocoding and “Correct Lastline” is on, the Pref City now returns correctly. Example: Denver CO 80223 returns as Denver, not Aurora.																																																																																
CENTRUS-10996	Case 17733972	Fixed a stack overflow crash encountered using DPV and LACSLink data in CASS match mode.																																																																																
CENTRUS-10630		Fixed an issue where an input address with a post-directional resulted in incorrect multimatch returns.																																																																																
CENTRUS-10758	Case 14964838	Corrected inconsistent results for an address by modifying the way USPS Preferred aliases are returned outside of the CASS match mode.																																																																																
CENTRUS-11004		Improved handling of input addresses containing underscores; for example, __4750 Walnut St. 80301_.																																																																																
CENTRUS-11005		Improved handling and matching of PO Box addresses that contain a “#” sign in front of the box number; for example, PO BOX #14.																																																																																

Item Number	Change Request	Description
CENTRUS-11030	Case 17993814	Fixed an issue where an input address containing multiple, single alpha characters and spaces was returning a segmentation fault error. 1 BOX T T #A now matches.
CENTRUS-11031	Case 17999041	Fixed an issue where an input address containing an intersection in the address line resulted in a multi-match which caused a crash. W Elkhorn Ave & S Monterey Ave., Cantua Creek, CA 93608 now processes correctly and returns match information.
CENTRUS-11032		Corrected an issue where multiple "NADCON files not found" error messages were returned when the files were not installed.
CENTRUS-11130		Fixed an issue where a system error was returned when only the "Return ZIP Code centroids" Centroid preference was selected, and no input ZIP was included when using 2-line address input. Now a non-match is returned instead.

Known Issues

- After the installation of Centrus Desktop completes, and attempting to start the application, you may receive an error, or the application may fail to launch. The behavior varies depending on the specific version of Windows. To resolve the issue:
 - Download and install the redistributable package available from the Microsoft Download Center via this link: <https://www.microsoft.com/en-us/download/details.aspx?id=48145>
 - Then uninstall and reinstall Centrus Desktop. This is important for certain components of Centrus Desktop to function properly after the redistributable package has been installed.
- DPV and LACSLink statistics are cumulative, containing statistics for all records processed thus far from all processes and threads.
- If you have integer fields in Excel, processing with Centrus Desktop causes the numbers to be converted to floating point including decimals. This conversion is performed to avoid losing decimal information for non-integral values.
- If you import attributes that have duplicate name, status, distance, or direction field names, ATTR is appended as a prefix to the value. For example, NAME becomes ATTRNAME.
- When Centrus Desktop initializes DPV and LACSLink, it stores the DPV and LACSLink directory paths in memory. Even if you attempt to change the DPV and LACSLink data folders by manually changing the file configuration or opening a different task, Centrus Desktop continues to use the DPV and LACSLink directory paths previously stored in memory. To successfully reset the DPV and LACSLink directory paths, you must restart Centrus Desktop.
- For Windows 7 users only - After the installation of Centrus Desktop completes, and attempting to start the application, the following error may display:

C:\Program Files\Centrus\Desktop\Centrus.exe

The application has failed to start because its side-by-side configuration is incorrect. Please see the application event log or use the command-line sxstrace.exe tool for more detail. This error means that your system needs additional runtime libraries that Microsoft provides.

To resolve the error:

- Download and install the redistributable package available from the Microsoft Download Center via this link: <http://www.microsoft.com/downloads/en/details.aspx?familyid=a5c84275-3b97-4ab7-a40d-3802b2af5fc2&displaylang=en>
- Then uninstall and reinstall Centrus Desktop. This is important for certain components of Centrus Desktop to function properly after the redistributable package has been installed.

Database Compatibility

NOTE: There are no data format changes to the street and point data sets for this release.

Platform-Specific Changes

New Platforms

For the Centrus Desktop 6.07.00.N release, the following additional platform is supported:

- Windows Server 2016
- Official support for Windows Server 2019 is expected by the year-end

For Further Assistance

If you have any questions about this release, please refer to the contact information on our website:

<https://www.pitneybowes.com/us/contact-dcs.html>

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