**Enhancement Tools**

Description: These tools automate various tasks involved with data creation and checking other data resources against the NG911 data. The Assign Unique Identifier tool creates a unique ID for all null features in a feature class. The US National Grid Calculator generates US National Grid coordinates based on the X & Y coordinates of the address point file. The TN Check geocodes a list of telephone number addresses against the MSAG information in the NG911 Address Points and Road Centerlines.

The metadata enhancement tool requires:

* Three Python scripts:
  + Enhancement\_AssignID.py
  + Enhancement\_USNGCal.py
  + Enhancement\_CheckTN.py
  + CoordConvertor.py

Running “Assign Unique Identifier” and “Assign Unique Identifier Road Alias Table”:

1. Open ArcCatalog and navigate to the toolbox called “Kansas NG911 GIS Tools”, expand the toolbox, then expand the toolset called “Enhancement Tools.”
2. Double click on the desired tool to open.
3. In the “Feature Class” or “Alias Table” input box, select the layer or table to have its unique ID’s updated.
4. In the “Unique ID Field” parameter, select the field that contains unique ID’s.
5. Run the tool.

Running “US National Grid Calculator”:

1. Open ArcCatalog and navigate to the toolbox called “Kansas NG911 GIS Tools”, expand the toolbox, then expand the toolset called “Enhancement Tools.”
2. Double click on “US National Grid Calculator” to open.
3. In the “Feature Class” input box, select the layer that needs US National Grid Coordinates updated.
4. In the “X Coordinate” box, select the field name for the x coordinate in decimal degrees. In the KS NG9-1-1 GIS Data Model AddressPoints feature class, this is the LONG field.
5. In the “”Y Coordinate” box, select the field name for the y coordinate in decimal degrees. In the KS NG9-1-1 GIS Data Model AddressPoints feature class, this is the LAT field.
6. In the “National Grid Field” box, select the output field name for the US National Grid coordinates. In the KS NG9-1-1 GIS Data Model AddressPoints feature class, this is the USNGRID field.
7. Run the tool.

Running “Check TN List”:

This tool requires a telephone number list to be extracted as a spreadsheet by XXX.

1. Open ArcCatalog and navigate to the toolbox called “Kansas NG911 GIS Tools”, expand the toolbox, then expand the toolset called “Enhancement Tools.”
2. Double click on “Check TN List” to open.
3. In the “TN Spreadsheet” input box, select the TN Spreadsheet provided by the telephone company.
4. In the “NG911 Geodatabase” box, select the appropriate NG911 geodatabase.
5. Run the tool.

Support Contact:

For issues or questions, please contact Kristen Jordan-Koenig with the Kansas Data Access and Support Center. Email Kristen at [Kristen@kgs.ku.edu](mailto:Kristen@kgs.ku.edu) and please include in the email which script you were running, any error messages, and a zipped copy of your geodatabase (change the file extension from zip to piz so it gets through the email server).

Disclaimer: The Kansas NG9-1-1 GIS Toolbox is provided by the Kansas 911 Coordinating Council, Kansas GIS Policy Board’s Data Access & Support Center (DASC), and associated contributors "as is" and any express or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed. In no event shall the Kansas 911 Coordinating Council, DASC, or associated contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.