**Adjustment Tools**

Description: The adjustment tools will help prepare data so it passes all data checks prior to submission into the NG911 Portal.

*Create Geocode Exceptions*: This tool creates a table in the geodatabase called GeocodeExceptions. Based on geocoding errors that exist in FieldValuesCheckResults, the tool adds those ADDIDs to the GeocodeException table. In the future, any ADDIDs noted in GeocodeExceptions will not be flagged as geocoding errors.

*Fix Domain Case:* Based on domain issues that exist in FieldValuesCheckResults, this tool edits case issues in data. For example, if FieldValuesCheckResults has the error “Value Primary not in approved domain for field LOCTYPE”, any occurrences of “Primary” in LOCTYPE will be edited to “PRIMARY”.

*Fix Duplicate ESBIDs*: For counties with three ESB layers, all ESBIDs must be unique when comparing all three layers against one another. This tool creates unique ESBIDs by appending “E”, “F”, or “L” to the end of ESBIDs. Thus, if “1” is the ESBID in EMS, Fire, and Law, after running the tool, features will have unique ESBIDs like “1E”, “1F”, & “1L”.

The adjustment tools require these Python scripts:

* Adjustment\_CreateGeocodeExceptions.py
* Adjustment\_FixDomainCase.py
* Adjustment\_FixDuplicateESBIDs.py
* NG911\_DataCheck.py
* NG911\_DataFixes.py

Running Create Geocode Exceptions:

1. First, either run “Validation Tools” > “2 Check Address Points” and make sure to check “Geocode Address Points” or “Validation Tools” > “9 Optional Check All Required”. Running these will record any geocoding errors in FieldValuesCheckResults.
2. Verify that ALL geocoding errors recorded in FieldValuesCheckResults are indeed exceptions.
3. Open “Adjustment Tools” > “Create Geocode Exceptions” and fill in the parameter for the NG911 Geodatabase.
4. Run the tool.
5. The tool will create a table called “GeocodeException” with one field called ADDID. This tool copies over all ADDIDs flagged as geocoding errors from FieldValuesCheckResults as geocoding exceptions.
6. If any of the ADDIDs copied over are genuine errors and are not exceptions, you can manually delete the ADDID in an edit session in ArcMap.

Running Fix Domain Case:

1. First, run “Validation Tools” > “9 Optional Check All Required” to make sure all domains of all feature classes are examined and all issues are recorded in FieldValuesCheckResults.
2. Open “Adjustment Tools” > “Fix Domain Case” and identify the parameters for the NG911 geodatabase and the folder containing domains files.
3. Run the tool.
4. Run “Validation Tools” > “9 Optional Check All Required” again. See the difference of results in FieldValuesCheckResults.

Running Fix Duplicate ESB IDs:

1. Open “Adjustment Tools” > “Fix Duplicate ESB IDs” and identify all the pertinent ESB layers according to the parameters.
2. Run the tool.
3. Run “Validation Tools” > “9 Optional Check All Required” again. See the difference of results in FieldValuesCheckResults.

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.