MONTANA
Department of Transportation

Project Development & Delivery - Digital Design and Modeling Services

Support Guide

Application/Tool(s): Power GEOPAK V8i SS10
Version(s): 08.11.09.918
Environment: OpenRoads (Enhanced) Workspace
Released/Revised: 8/30/2021

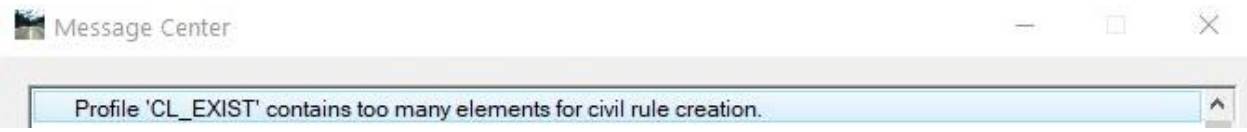
NEED HELP?

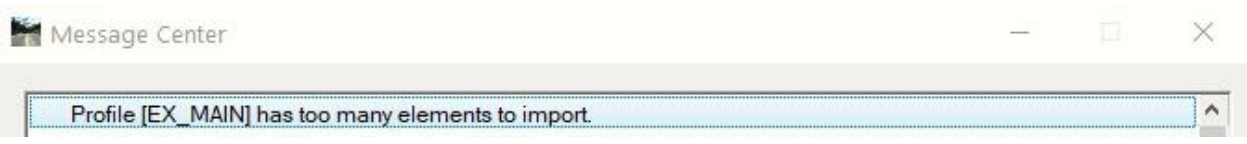
SUPPORT
Open a Case

IMPORTING GPK OR ALG HORIZONTAL / VERTICAL ALIGNMENT WITH CIVIL RULES

ISSUE:

Lengthy horizontal and vertical alignments from ALGs and GPKs will not import or will not become civil ruled features on import. These failures are most common when the user is attempting to import a Geopak/OpenRoads generated existing ground profile or a best fit generated horizontal alignment that contains many small segments (>250) that was stored in a GPK file. Common error messages due to failure of the import process are: “Profile [Profile Name] has too many elements to import”, “Profile/Horizontal ‘Alignment Name’ contains too many elements for civil rule creation”, see images of error messages below.





SOLUTION:

Default workspace configuration settings for the user's current working instance of SS4 OpenRoads can be adjusted to ***potentially*** resolve the issue. Adjusting these variables does have a limit, so if you continue to receive errors after the fix is performed, you may try breaking your alignment into smaller portions and importing the segmented pieces. It should also be noted that this fix will only be applied to the current running instance of OpenRoads and would need to be reapplied each time you restart the program.

The following 3 workspace configuration settings (SS4 OpenRoads) will assist with the issue of alignment importing and adding civil rules to imported alignments:

1) CIVIL_RELAX_NUMBER_OF_LINEARS allows the user to relax the number of adjacent linear elements. If this is set to false or undefined then the maximum number of adjacent lines is 20.

2) CIVIL_RELAX_NUMBER_OF_ELEMENTS_FOR_RULES allows the user to relax the total number of elements (lines + arcs). If this is set to false or undefined then the maximum number of total elements is 250.

3) CIVIL_RELAX_NUMBER_OF_ELEMENTS_ON_IMPORT allows the user to relax the total number of elements (lines + arcs) on Import Geometry. If this is set to false or undefined then the maximum number of total elements is 1000. This only applies to vertical alignments.

The following configuration variables will need to be changed to a new value of 1 prior to attempting import:

CIVIL_RELAX_NUMBER_OF_LINEARS

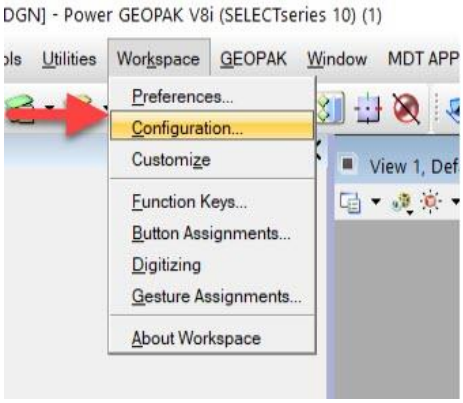
CIVIL_RELAX_NUMBER_OF_ELEMENTS_FOR_RULES

CIVIL_RELAX_NUMBER_OF_ELEMENTS_ON_IMPORT

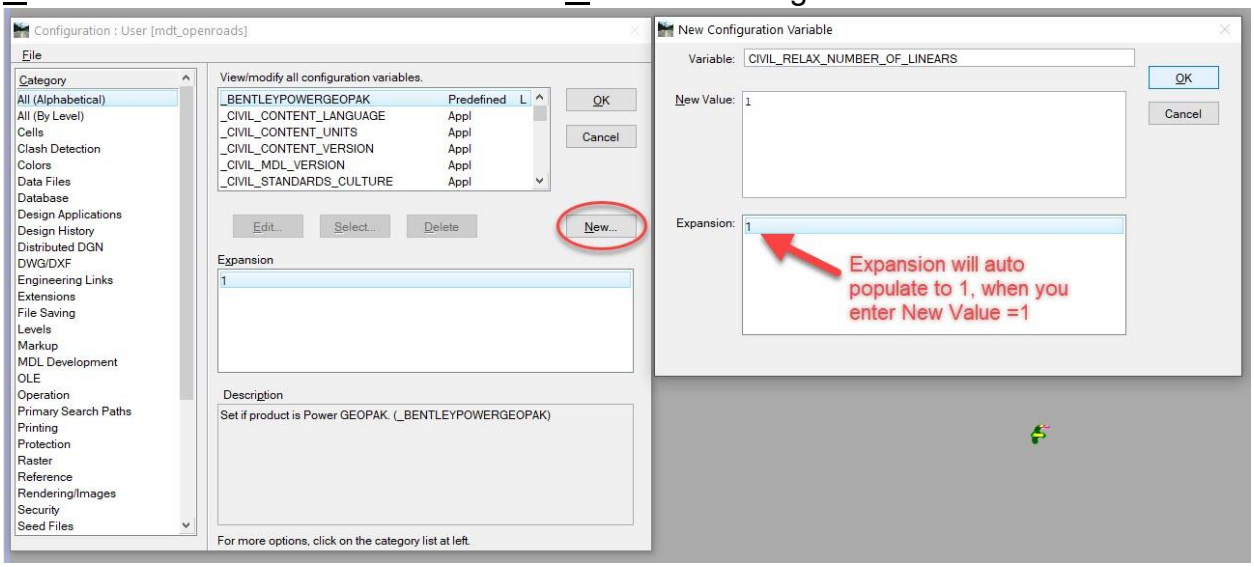
IMPORTING GPK OR ALG HORIZONTAL / VERTICAL ALIGNMENT WITH CIVIL RULES

PROCEDURE:

1) In the file you will be performing the alignment import, open Workspace/Configuration, and select New…



2) One at a time Copy and paste each of the three Variables listed above, entering a New Value = 1 as shown below. Select OK after entering each of the Variables.



3) Close the Configuration dialog. Note, it is not necessary to save changes to the UCF file.