Creating a Topology: Versioning and Your Mature Dataset

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Outline:

• The Scenario
  – Describe our situation

• Our Goal
  – Flag Problem areas
  – Correct Polygon overlap

• Problems and Solutions
  – Versioning
  – What to do with those Editors

• Lessons Learned
  – Oops!
    • Cluster Tolerance

• Progress
  – Then and now
The Scenario:

- Base map in versioned dataset with eight polygon feature classes
- One or more editors
- ArcSDE 9.1
Our Goal:

- Create a topology
  - Flag areas that need correction
Problems:

• Dataset is versioned
  - Topology cannot be created on a versioned dataset

• Dataset is being edited
  - Multiple Versions Exist
Solution:

- Stop editing – unavoidable
  - Editors: Coffee Break!

- Reconcile and Post all versions

- Unregister as Versioned
  - ArcSDE command line
    - sdetable alter_reg
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- ArcSDE Command line
- Unregisters feature class as versioned/Compresses feature class to target Version

- No Further geodatabase compression required
- Can be scripted for all feature classes in dataset
Lessons Learned:

• Cluster Tolerance
  – Defined as the minimum space between vertices in the topology
  – Vertices that fall within the cluster tolerance will be snapped together during validation

– Default value
  • Minimum cluster size based on spatial reference
• Rule of Thumb – Order of magnitude less than the most accurate feature class in the dataset
Cluster Tolerance

- Many errors of this type
- Extra work in deleting/moving vertices

- Within Cluster tolerance – could have been snapped at validation
Before
Work in Progress
Questions/Comments

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