Editing & Maintaining Parcels with ArcGIS

Tim Hodson
Jason Camerano
Parcel Fabric Model, Tax Parcel Editing Map

Tim Hodson
Parcel Editing with ArcGIS 10.2
Improved Parcel Editing Workflows

• Most common Parcel Editing workflows
  - Parcel Splits
  - Parcel Merges
  - New Subdivisions
  - Boundary Line Adjustments
  - CAD integration
Parcel Fabric Data Model

Optimized Data Model for Parcels
What is a Parcel Fabric?
Parcel Fabric Data Model

- Plans
  - Parcels
    - Points
      - Control
      - Line Points
    - Lines

Editing & Maintaining Parcels with ArcGIS
Parcel Fabric

Plans

- Store and Manage recorded information about parcels
- One or many parcels are contained within a plan
Parcel Fabric

Parcels

Parcel Polygon has related lines

Lines have related points
Parcel Fabric
Lines/Points

Lines store record dimensions

Points are stored on the ends of lines
Parcel Fabric
Line Points

Preserve original record dimensions, ensure topology between parcels.
Parcel Fabric
Overlapping Parcels

All Subdivisions, Lots, Tax Parcels, etc. are “Parcels” in the Parcel Fabric
Exploring the Tax Parcel Editing Map

Jason Camerano
Parcel Edit Workflow Models

Tim Hodson
Workflow Models

Workflows for maintaining Parcels

This workflow describes the steps for splitting a tax parcel from a metes-and-bounds description.
Workflow Models

Parcel Workflows

• Released with 10.1 SP1

• Parcel Fabric ships with Parcel Edit Workflow for Local Government Information Model (LGIM)

• New at 10.2: Integration with Deed Drafter
Workflow Models
Parcel Editing

- Built with three components of COTS technology:
  - A parcel fabric Information Model (Info)
  - A map document designed for editing workflows
  - Workflow dialog with specific, goal-driven tasks
Parcel Edit Workflow Models

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Parcel Edit Workflow Models

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Parcel Edit Workflow Models
Part of a Solution: Land Records Maps and Apps

• **Tax Parcel Viewer**
  - Access to tax parcel and assessment information

• **Parcel Value for iPhone**
  - Access to tax parcel and assessment information on iPhone

• **Tax Map Book**
  - Production of tax map books

• **Tax Parcel Editing**
  - Parcel editing and maintenance
  - Migration of parcel data

• **Value Analysis Dashboard**
  - High level view into changes of property assessments
Parcel Split: Metes and Bounds

Jason Camerano
Deed Drafter
Tim Hodson
Deed Drafter

ArcGIS Runtime

- Light ArcGIS Runtime app (exe file)
- Simple data entry tool for Metes & Bounds
- Read only access to the GDB
- Data is saved to a file
Deed Drafter
Improved Workflow

- Enters a new metes & bounds
- Determine transaction type
- Save and share (cadastral XML)

- Consume file
- Perform QA and modify
- Complete workflow and perform the updates
Deed Drafter

Functionality

- Parcel Navigator
- Parcel Entry
- Parcel Tools
- Share

Find current location or search for Parcel ID, Address or Subdivision/Condo Name.
Deed Drafter
Release

• Releases with 10.2
Merge, Working With CAD, Subdivisions & Deed Drafter

Jason Camerano
Community
Resources and Participation

• New Instructor-Lead Training

• New 10.2 Resource Center for Land Records

• Community Participation: Meet-up, Forum, Ideas
Community Participation


- **Ideas**: [http://ideas.arcgis.com/](http://ideas.arcgis.com/)

Community
Meet-up

   - (or http://bit.ly/WeWePq)

• Bi-weekly Virtual Meet-up:
  • Live Demos
  • Interactive Discussion in the Community
  • Your Ideas
  • Your Support Incidents
  • Meetings Recorded (http://bit.ly/ZFEVcS)
Community Meet-up

- **Meet-up**: http://www.meetup.com/Esri-Land-Records-Meet-Up/
Community Ideas

• Ideas: [http://ideas.arcgis.com/](http://ideas.arcgis.com/)
Community Forum

Additional offerings

- **Editing and Maintaining Parcels with ArcGIS**
  - Wed 7/10/2013, 01:30 PM - 02:45 PM, Room 10
  - Thu 7/11/2013, 10:15 AM - 11:30 AM, Room 10

- **Migrating Data into the Parcel Fabric Solution**
  - Thu 7/11/2013, 08:30 AM - 09:45 AM, Room 02

- **ArcGIS Deed Drafter: An Introduction**
  - Thu 7/11/2013, 11:30 AM - 12:00 PM, Hall H - GIS Discussion Lounge
Thank you…

Please fill out the session evaluation

First Offering ID: 1332
Second Offering ID: 1420

Online – www.esri.com/ucsessionssurveys
Paper – pick up and put in drop box