Archive – Technical Training

Autodesk Topobase Administrator

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Chapter Overview

- Chapter teaches you how jobs help manage workflow in a multi-user setting.
- Use *states* to edit, review, and quality-check data.

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Topobase Jobs

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Chapter Objectives

- By the end of this chapter, you will be able to:

  - Explain how multiple users can edit data.
  - Explain what a job is.
  - Job-enable a document.
  - Create a job template for certain topics and user groups.
  - Review job client functionality.

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13.2 What Is a Job?

- Jobs allow you to manage and control editing and updates by multiple users for a feature class.
  - In essence, a job is a long transaction process involving a feature class in Topobase.
  - Its special strength is managing spatial information in multi-user environments.
  - It is based on the Oracle virtual private database.

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13.2 What Is a Job? +

- A job enables you to select an area that is being built or modified.
  - Keeps the modifications separate from production data.
  - Enforces an approval process for completed jobs.
- Once completed, all jobs are maintained on a historical basis and can be rolled back to provide a view of your data at any point in time.

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13.2.1 States

- Data can only be changed within a job.
  - **Open** job.
  - **Pending** job.
  - **Live** job.

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13.3 Defining a Job in the Topobase Administrator

- Before you job-enable any feature class, you should define how to restrict the geographical access for a job.

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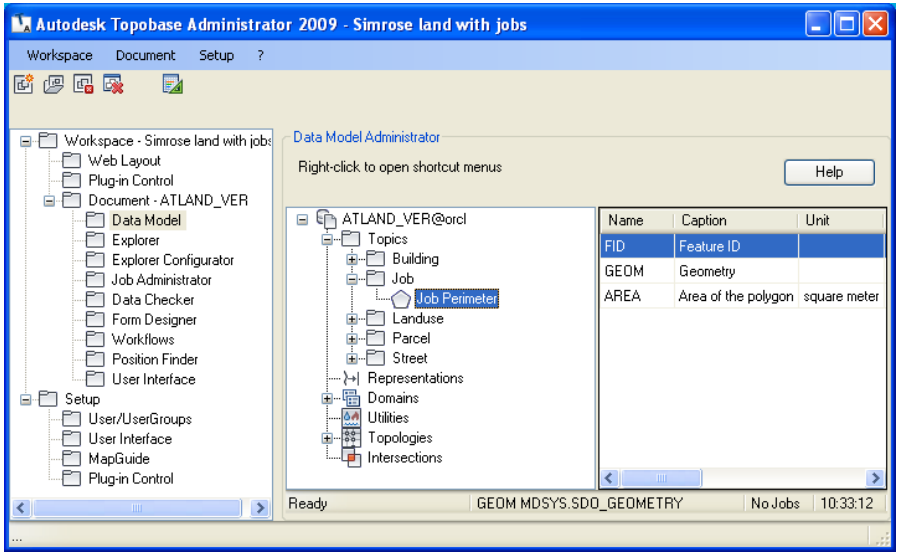
13.3.1 Preparation for Job Perimeter

- When working with jobs, it is possible to define a perimeter which will set separate working areas.
  - Only features within the perimeter can be changed
  - Useful in an environment where multiple users use the same job template



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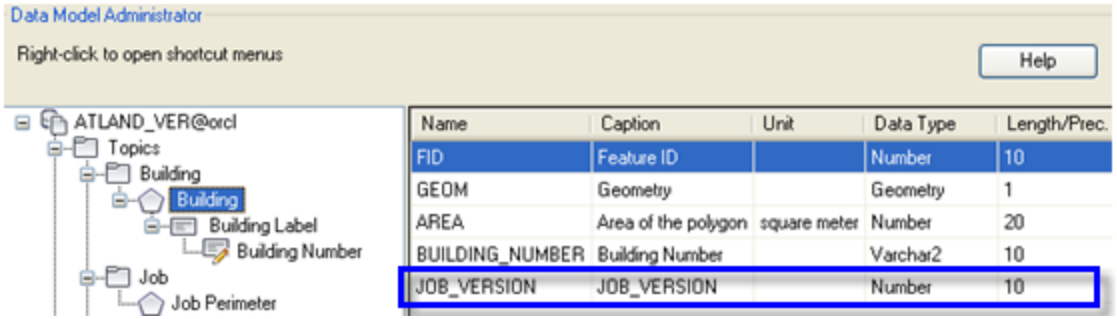
13.3.2 Enable Jobs for the Document

- Job enabling launches certain routines.



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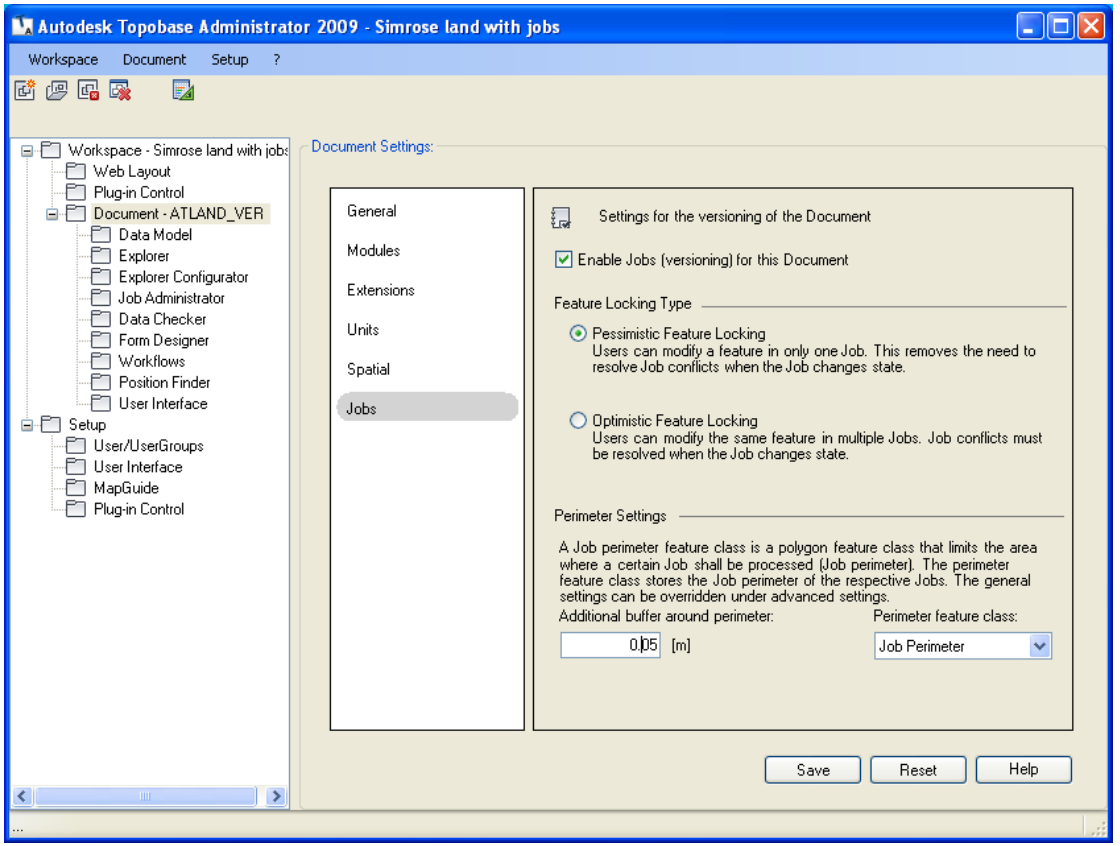
13.3.2 Enable Jobs for the Document +

- *Feature Locking*
  - Pessimistic (recommended)
  - Optimistic
- *Perimeter Setting*
  - Set the perimeter configuration



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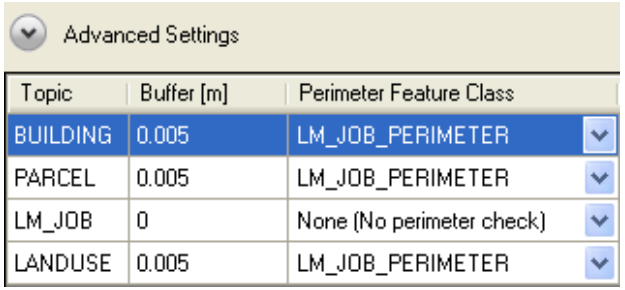
13.3.3 Assigning a Perimeter to Topics

- After the basic definition you can set different buffers and perimeter Feature classes for particular topics.
  - Open the **Jobs** section in the Document Settings. Now a new icon called Advanced Settings is available.



Advanced Settings

Topic	Buffer [m]	Perimeter Feature Class
BUILDING	0.005	LM_JOB_PERIMETER
PARCEL	0.005	LM_JOB_PERIMETER
LM_JOB	0	None (No perimeter check)
LANDUSE	0.005	LM_JOB_PERIMETER

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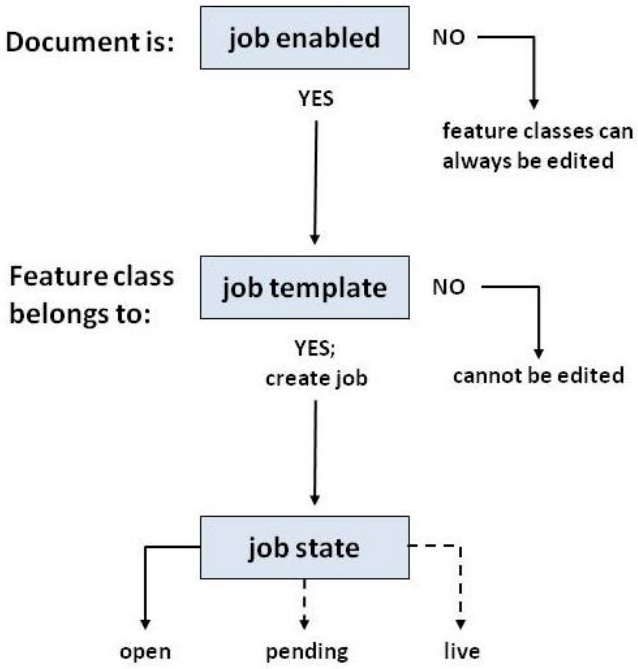
13.3.4 Creating a Job Template

- Specifies a selection of job-enabled feature classes which can be processed.

- *A feature class that is not job enabled is a kind of "free agent" that is outside the jobs system. It can be edited in every job, or outside any job, by any user who has permission.*



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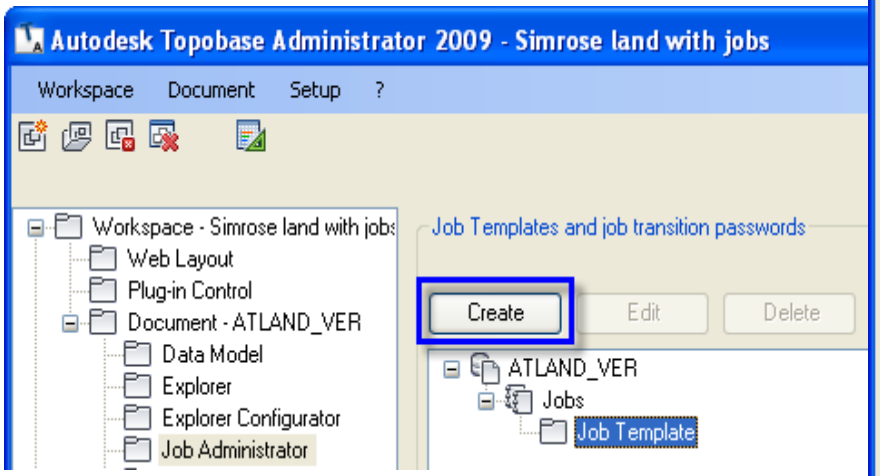
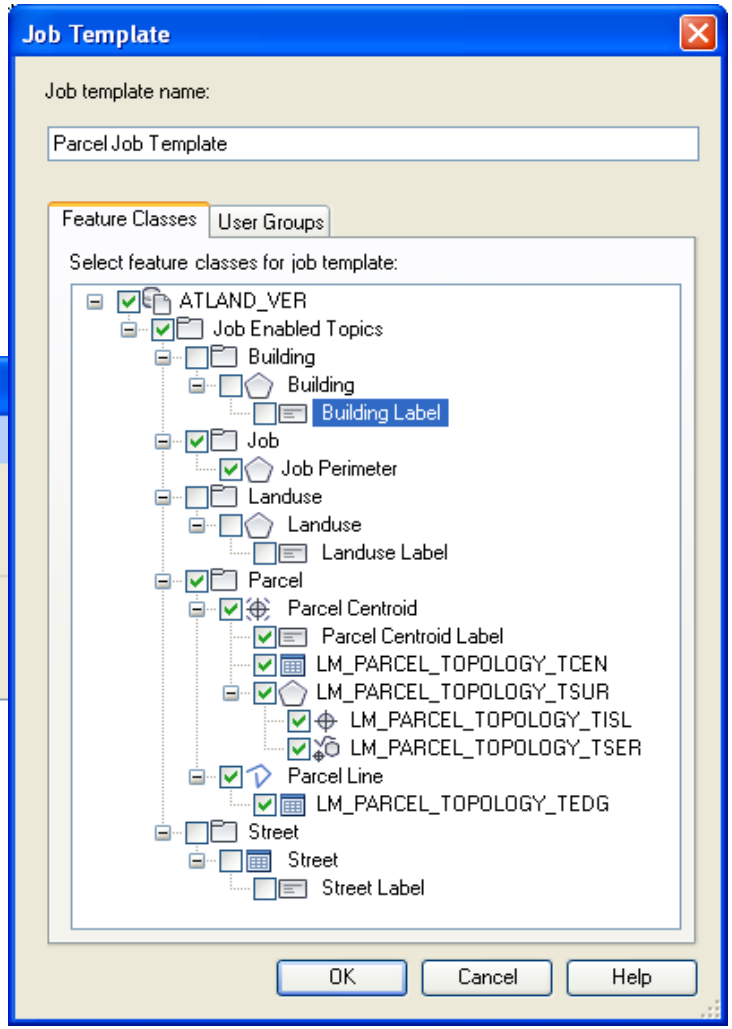
13.3.4 Creating a Job Template +

- Use Topobase Administrator to define any number of job templates containing any combinations of job enabled feature classes.





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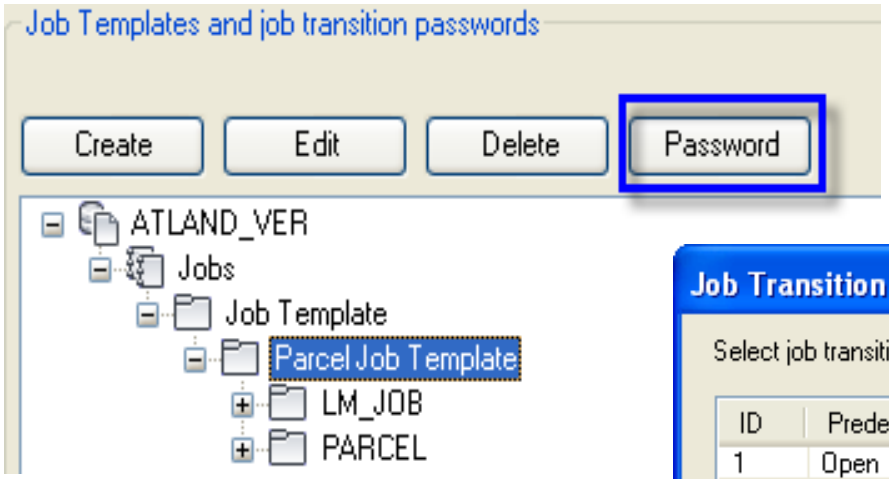
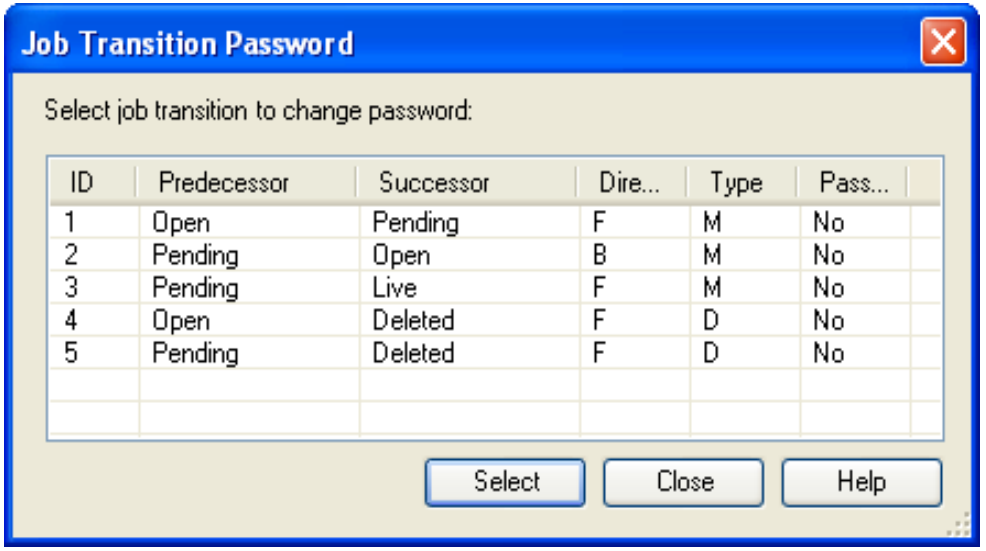
10.3.4 Creating a Job Template ++

- Define **passwords** to control when a change from state to state is made:
  - Direction – **F**orward, **B**ackward.
  - Type – **M**erge, **D**elete, do **N**othing.





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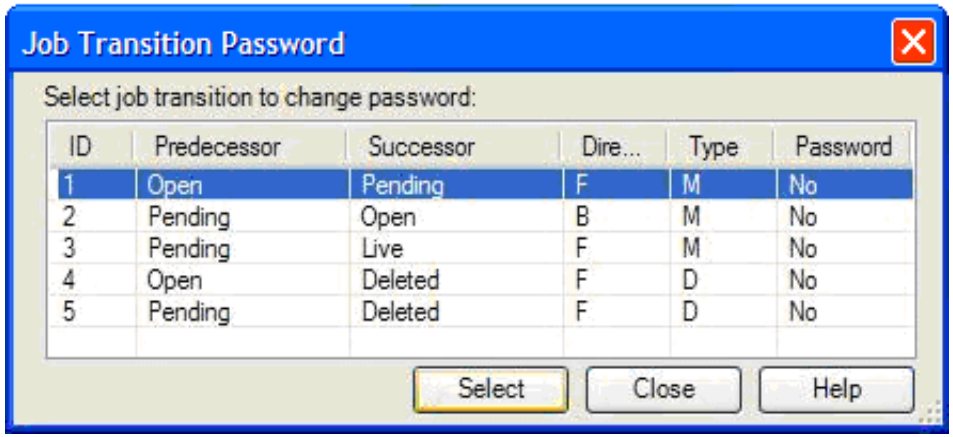
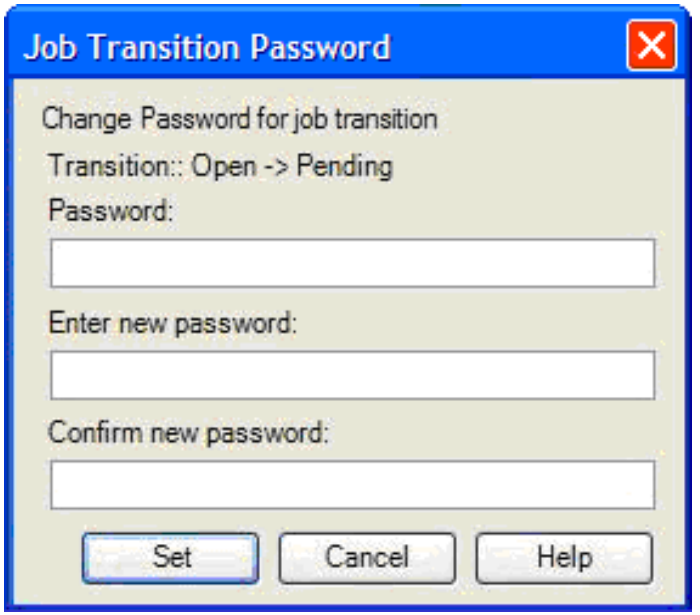
10.3.2 Creating a Job Template +++





- Passwords:
  - Select the transition.
  - Click **Select**.

…then manage the password.

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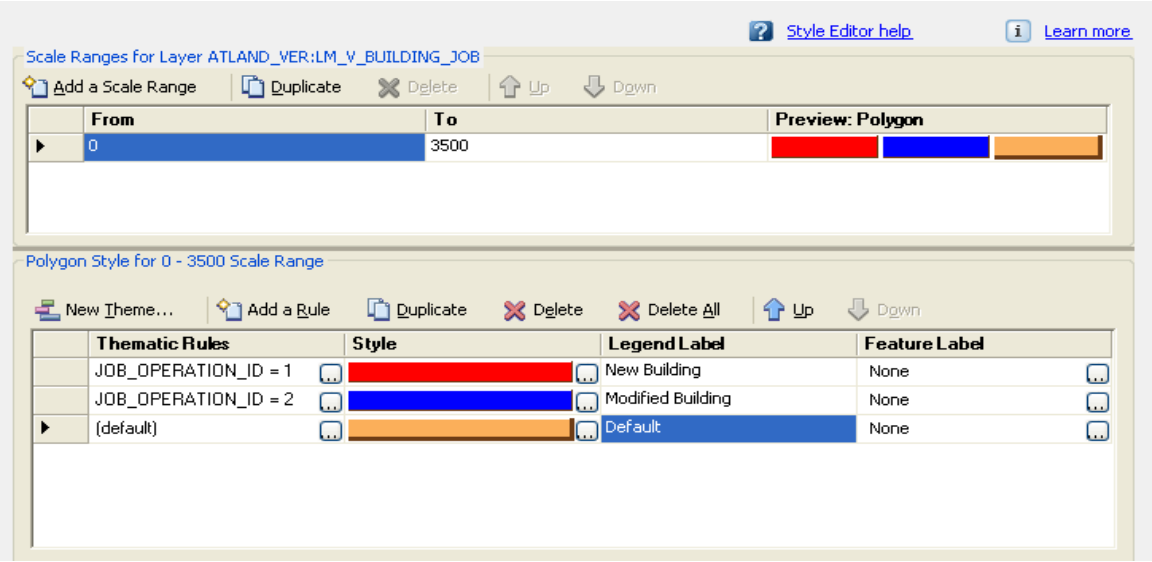
13.3.5 Making Settings to Display Job Features

- Display Manager has to be configured to display job data properly.




```
CREATE OR REPLACE VIEW LM_V_BUILDING_JOB
(FID, GEOM, JOB_VERSION,
STATE, JOB_OPERATION_ID, JOB_ID, NAME)
AS
SELECT  a.fid, a.geom, a.job_version,
  b.state, b.job_operation_id, b.job_id, c.name
FROM LM_PARCEL a, TB_JOB_VERSION b, TB_JOB c
WHERE a.job_version = b.job_version
AND b.job_id = c.ID
/
```

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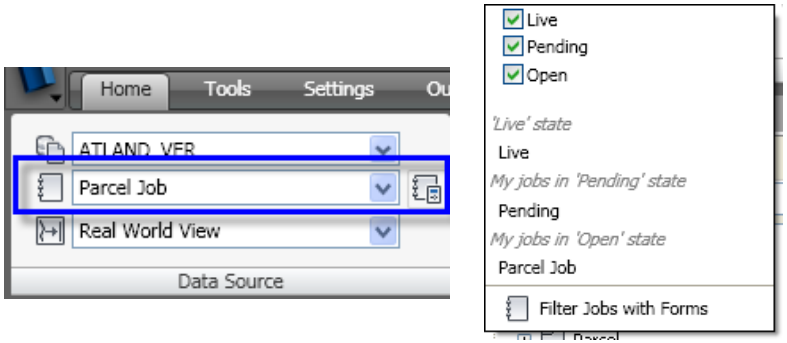
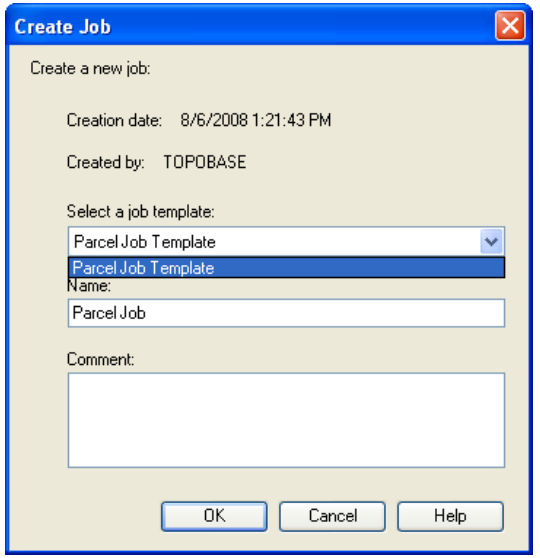
13.4 Using the Job (Client Functions)

- The client user manages jobs using the Job Toolbar.



- The user selects the jobs and launches the Job Manager window.

- In the job manager, the user is able to launch the Create Job window.



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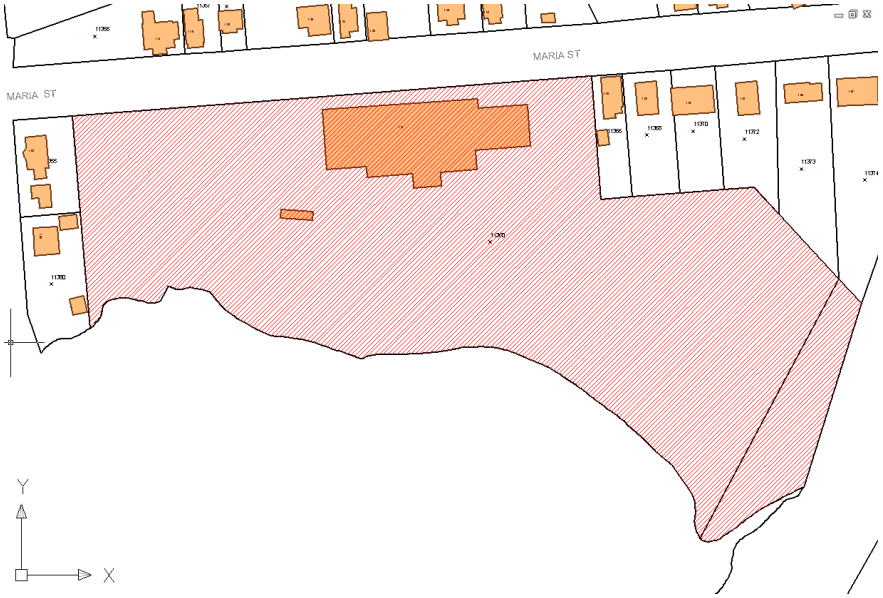
13.4 Using the Job (Client Functions) +

- The user defines a job perimeter .



- The perimeter feature class layer should be loaded in the Display Manager to show the borderline of the Job.
- Now data can be modified inside the Job.

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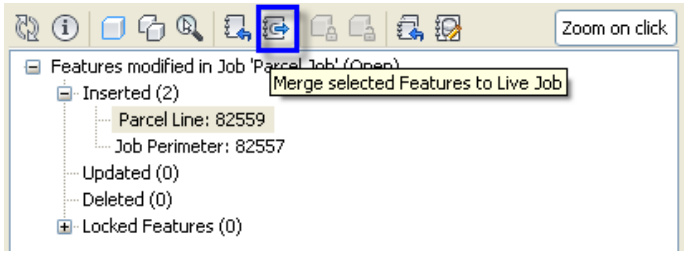
13.4 Using the Job (Client Functions) ++

- In the Job Explorer particular changes could be set Live before the whole Job is finished.



- After completion the status will be changed to Pending.
  - A review status where all users can see the changes in the data
  - The data is read-only

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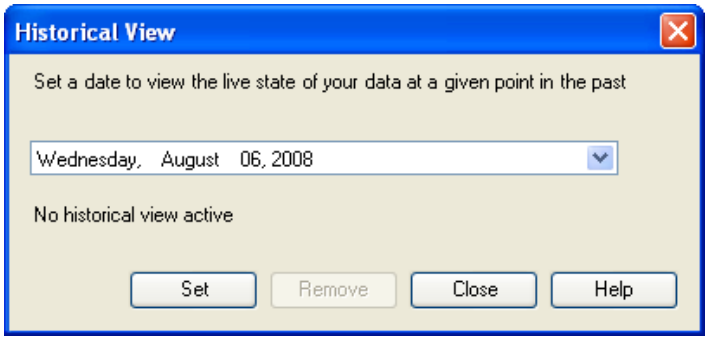
13.4 Using the Job (Client Functions) +++

- Depending on the revision result the Job status can be set back to Open.
- The job status is set to Live to merge the changes of the the job into production data.
- The Historical View shows you - for any passed date - the Live state data .



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13.6 Chapter Summary

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