

Partial Import for layout preparation

A partial import of canal layout routes from AutoCAD may be the best starting point for tackling any design project using CanalNETWORK software. Resolving a network of canals can be a time consuming task, especially when profile data is included. Importing canal routes without profile data (partial import) saves time, because:

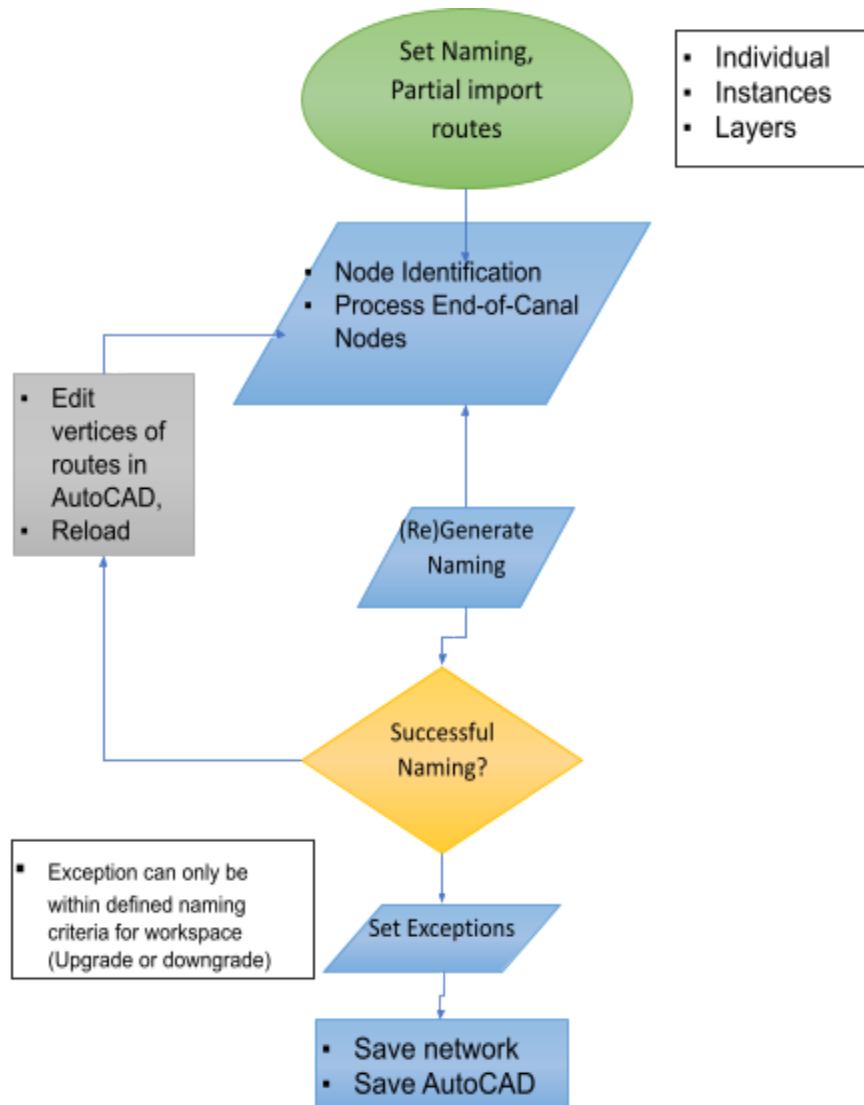
- Allows to edit vertices of routes and re import them quickly.
- Offers automated network preparation tools (Vertex insertion and instance creation) to assist in subsequent referencing and profiling tasks
- Automatically generate canal route names to AutoCAD

The main purpose of using the partial import method is to quickly resolve the network map. Once this milestone is reached, subsequent tasks can be handled relatively quickly.

A resolved network is a geometrically appropriate arrangement of routes that has ensured every route is properly connected to only one parent canal, except the first generation canal.

The workflow typically follows the chart shown below.

Once this is achieved, continue to the next step for profile extraction based on the resolved canal layout map. Note, the

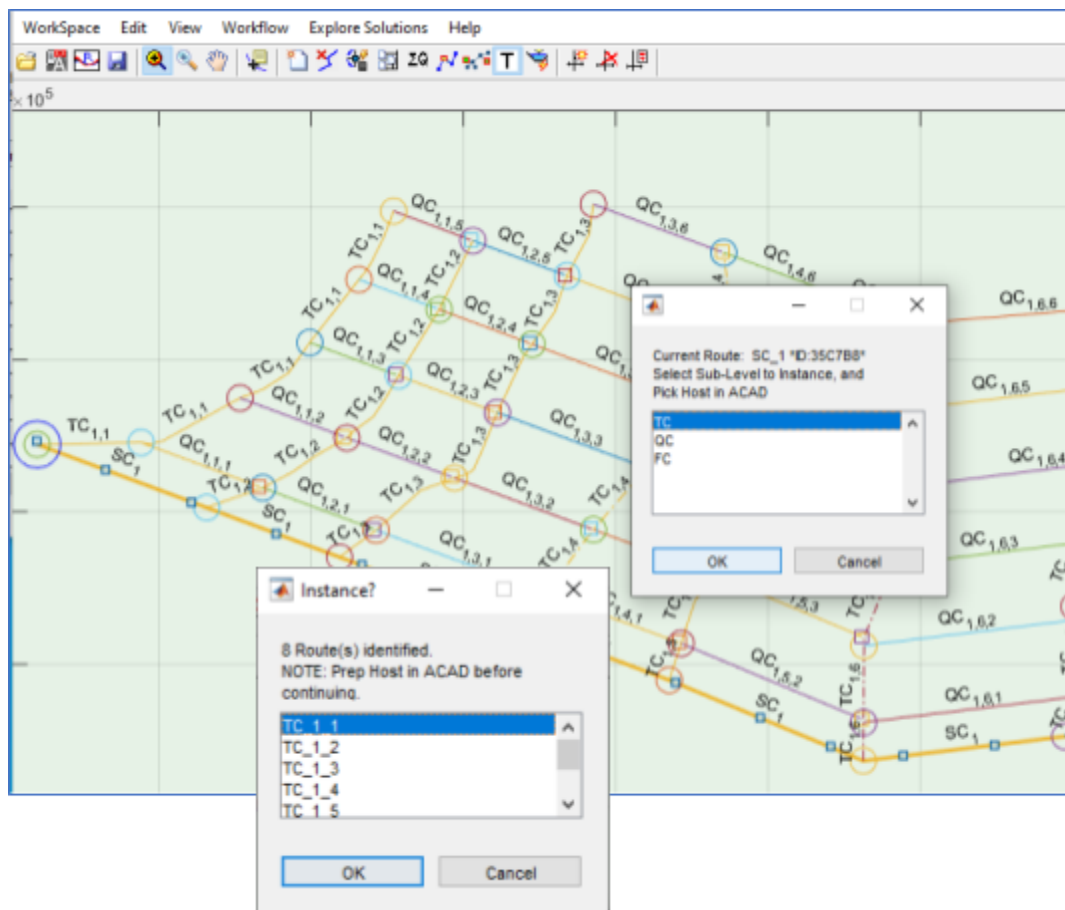


effort to resolve the network in CanalNETWORK ensures that the base layout map in AutoCAD is edited and refined to conform to geometric requirements for network analysis steps in subsequent tasks.

Once the network is resolved you can now continue with V.I.R.P preparatory tasks for each route in the network system. Go to **Workflow > Prep** and:

- Choose **Workflow > Prep Network > Vertex at Node Position** to automatically insert vertices on the canal routes in AutoCAD base objects. Recall, these are key to ensure compatibility of OGL data between parent and branch canals.
- Choose **Workflow > Prep Network > Create Instances** to flexibly create instances of canal routes flexibly – by generation, or selection.

If no selection, you will be promoted to create instances by canal generation. If a canal route is selected, then you can create instances for sub-routes as desired.



- Back in AutoCAD, Reference every canal route that is a member of the network you are working on. This is quickly and easily achieved through the use of the instances you created above.

Having completed the V(vertex insertion) I(Instancing) and R(referencing), proceed to profile extraction. Refer to the relevant article below.

END.