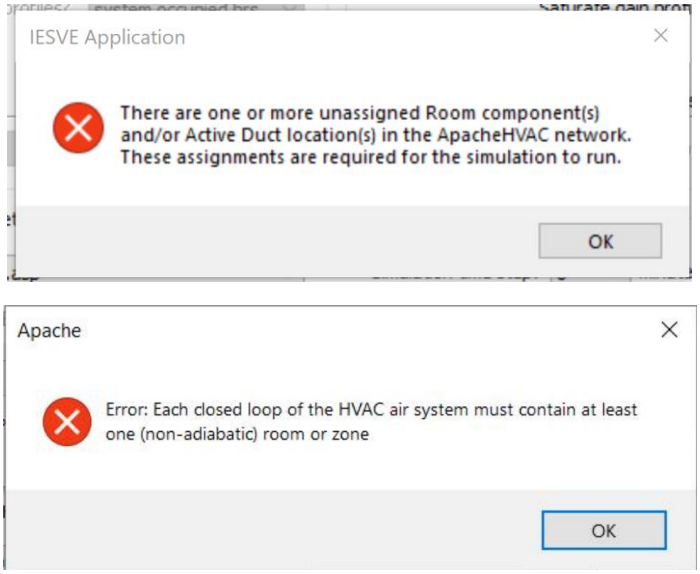
# Apache error: There are one or more unassigned Room component(s) and/or Active Duct location(s) in the ApacheHVAC network. These assignments are required for the simulation to run.

# Apache error: Each closed loop of the HVAC air system must contain at least one (non-adiabatic) room or zone.

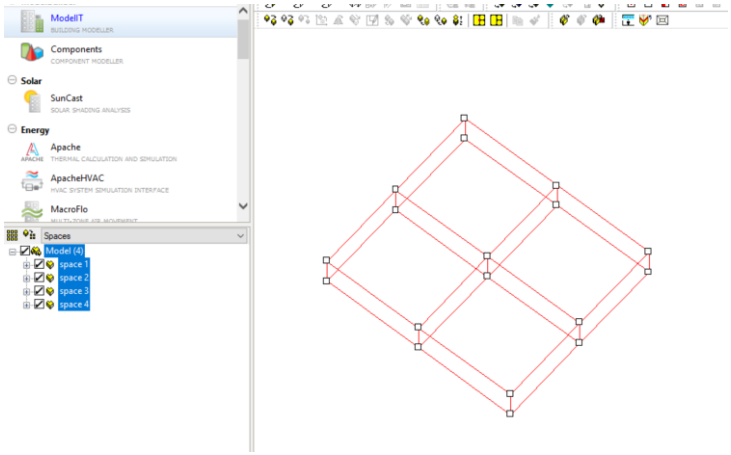


The first error usually refers to an HVAC network in the asp file which does not have any rooms assigned to the principal room. i.e. a prototype network is imported but no rooms have yet been assigned to the multiplex.

The second error refers ether to bespoke HVAC networks where a complete loop on the airside network does not contain a room component or more likely again where a room component on a multiplex layer does not have a room/zone assigned to it.

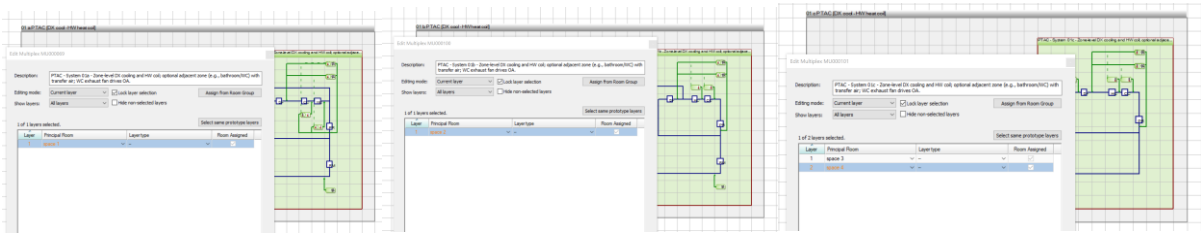
This example demonstrates the problem and how to troubleshoot (particularly on large/complex systems).

Example model contains 4 spaces

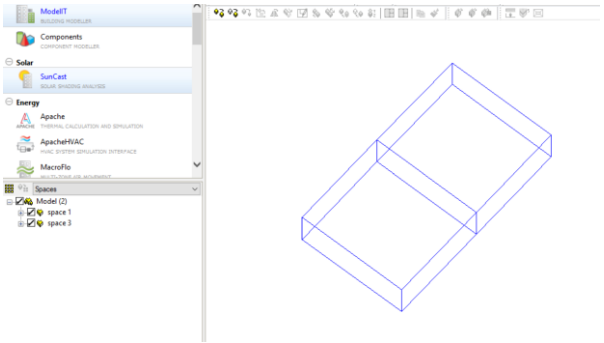



These are assigned to HVAC networks in the asp file:

Space 1 in system 1a
Space 2 in system 1b
Space 3 and Space 4 in system 1c



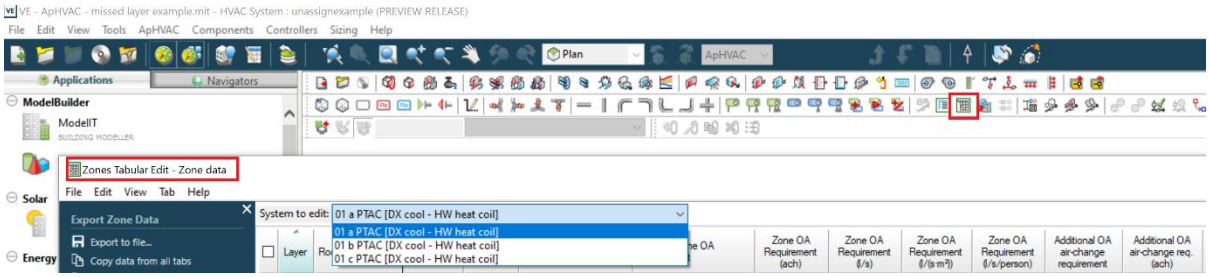
If the model is subsequently updated so that Space 2 and Space 4 are deleted then these assignments are lost from the networks.




Note: any geometry edit may have this affect such as delete, partition, divide etc. Anything where the end result can be the original space is removed and possibly a new space at end of the rooms browser list is created would require reassignment in ApacheHVAC to avoid such errors.

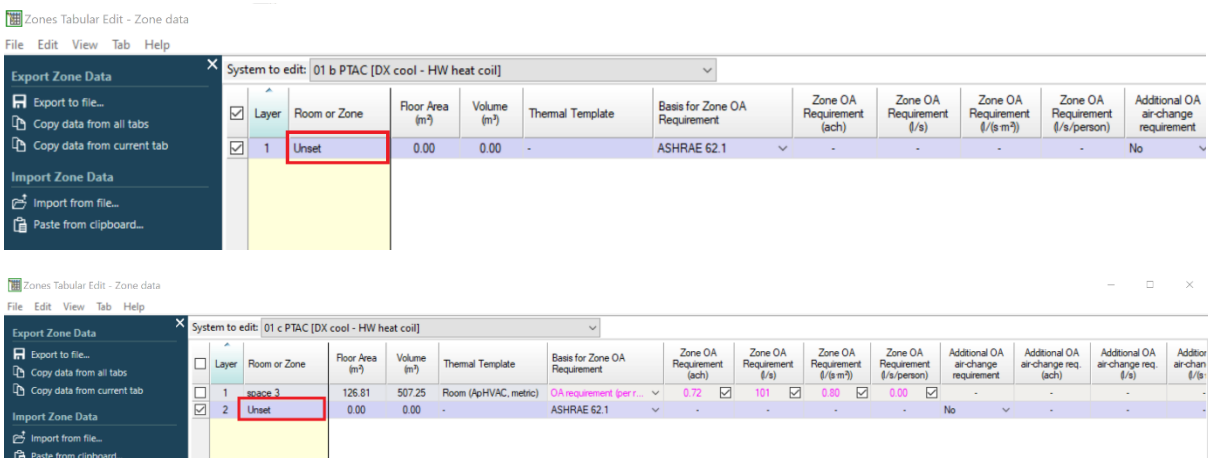
If the ApacheHVAC network is not first updated then the error may occur when try to run simulation or system loads calculations linked to the network.

To identify and resolve the problem return to ApacheHVAC and open the Zones Tabular Edit dialog from the toolbar.




This gives an easy to use interface where all networks in the system are listed in the dropdown and when each is selected you can quickly view all layers to find any that are *unset* or *adiabatic* and prompting the error.

Here we see this when choosing system 1b (no assigned layers – error 1) and system 1c (one layer unassigned – error 2).




You can then choose either to reassign the appropriate new room or zone or else delete these unassigned layers and continue with running the analysis.