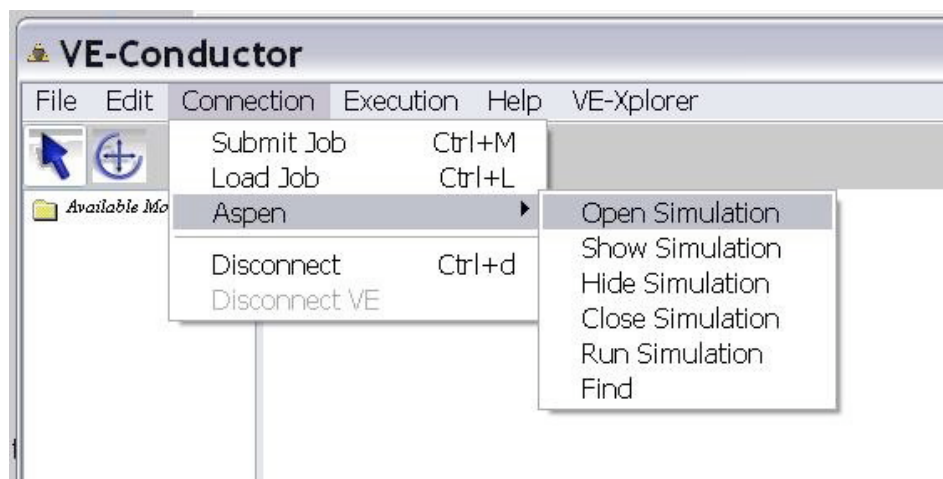The new tools created to integrate VE-Suite will be described in this document. The assumptions are that users have access to Aspen and that they are familiar with general VE-Suite operations.

To begin, the user launches VE-Suite through the normal modes that can be found in the VE-Suite documentation. The user then launches the VE-AspenUnit executable via VE-Launcher by dropping the .bat file used to run the VE-AspenUnit into the DOS shell. Once the VE-AspenUnit is launched, the querying of Aspen can begin.

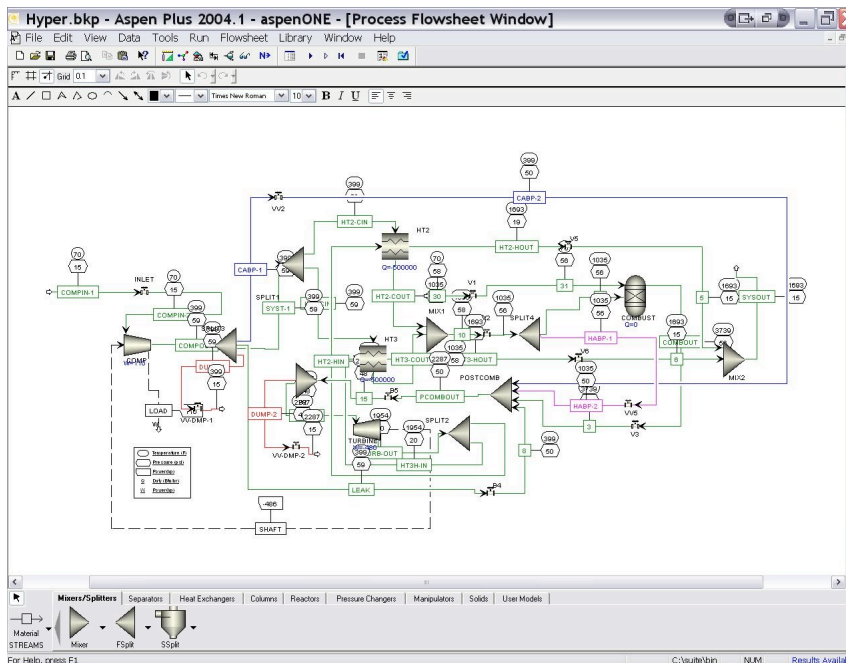1. Choose Connection→Aspen→Open Simulation to run the Aspen Simulation:

Note: As shown above, various other operations are also available in VE-Suite. The resulting actions can be intuited from the menu names.
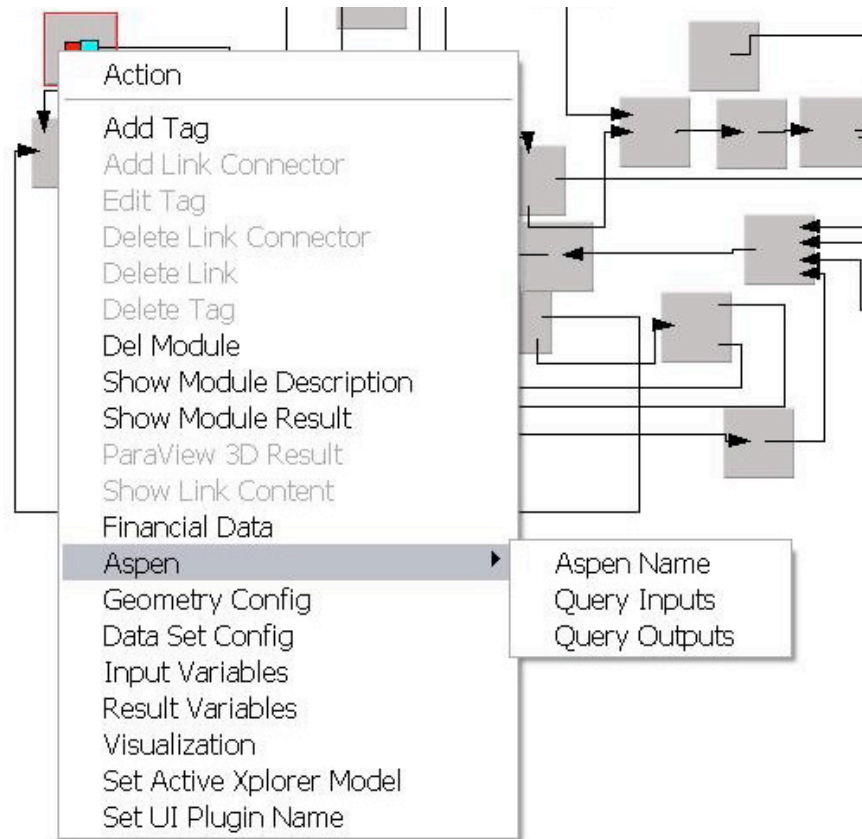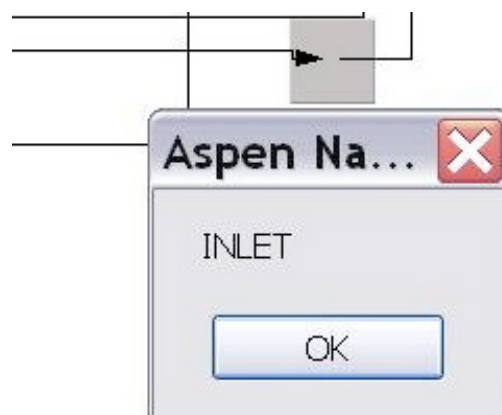
2. Enter the Aspen .bkp file to be used:

3. Once the .bkp file is chosen, the user will then see a network diagram of the Aspen flowsheet similar to what is seen in Aspen:

File   Edit   Connection   Execution   Help   VE-Xplorer

Available Modules

```
<x:Location type="xs:unsignedInt">554</x:Location>
<y:Location type="xs:unsignedInt">220</y:Location>
</linkPoints>
<linkPoints>
<x:Location type="xs:unsignedInt">532</x:Location>
```
Load Network

VE-Conductor Status

Hyper.bkp - Aspen Plus 2004.1 - aspenONE - [Process Flowsheet Window]

File   Edit   View   Data   Tools   Run   Flowsheet   Library   Window   Help

Grid 0.1   Times New Roman   10   B I U

VV2   CABP-2
HT2-CIN   HT2   HT2-HOUT
CABP-1   Qn=500000
70   COMPIN-1   INLET   SYST-1   HT2-COUT   MIX1   V1   SPLIT4   31   COMBUST Q=0   SYSOUT
SPLIT1   HABP-1   CONBOUT
COMPIN   HT3   MIX2
COMP   HT3-COUT   T3-HOUT
HPUMP   DU   HT2-HIN   Qn=500000   POSTCOMB   HABP-2
LOAD   VV-DMP-1   DUMP-2   PCOMBOUT   V3
VV-DMP-2   TURBINE   SPLIT2   TRB-OUT   HT3H-IN
LEAK
Temperature (F)
Pressure (p i)
SHAFT

Mixers/Splitters   Separators   Heat Exchangers   Columns   Reactors   Pressure Changers   Manipulators   Solids   User Models

Material STREAMS   Mixer   FSplit   SSplit

For Help, press F1   C:\suite\bin   NUM   Results Available
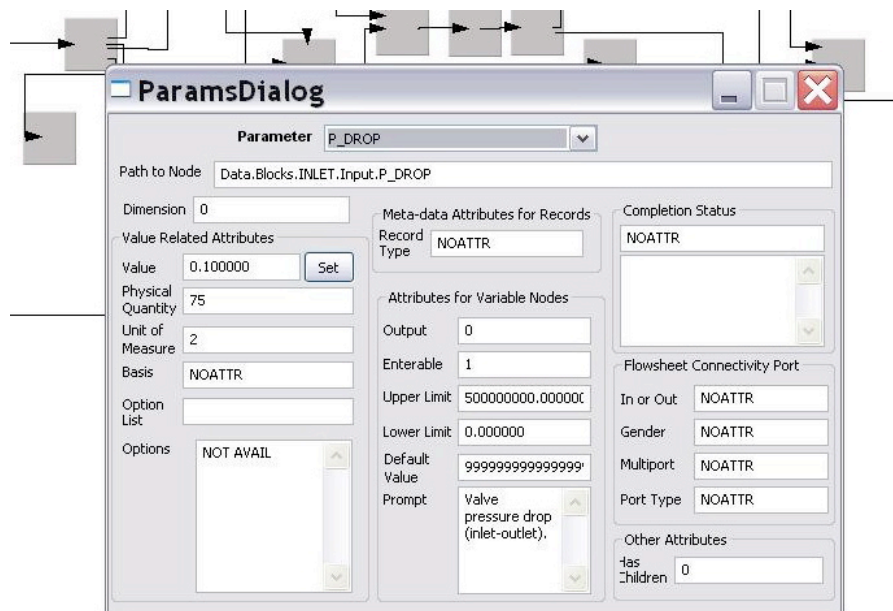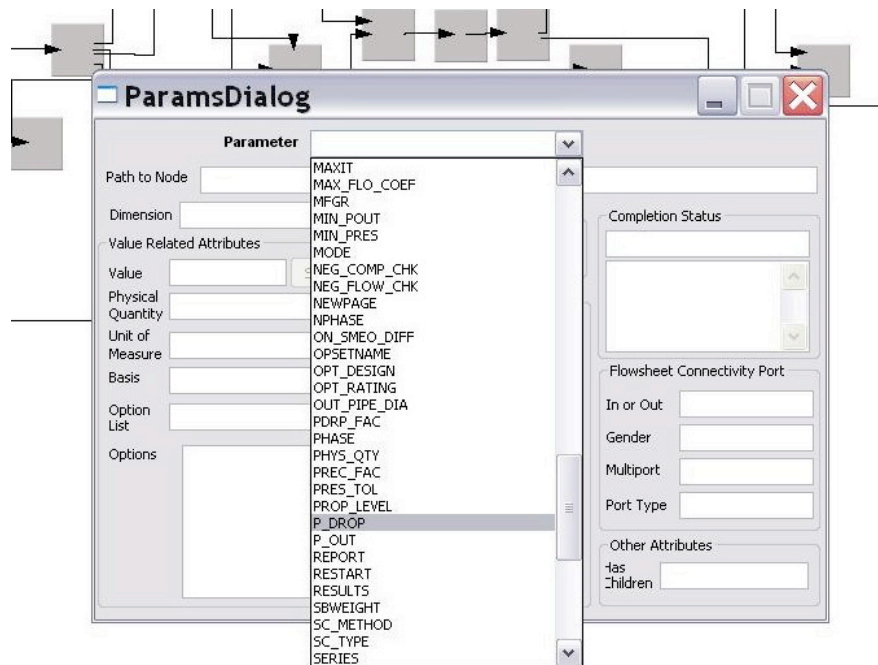
4. Once the Aspen flowsheet is loaded, it is possible to work with Aspen through the VE-Suite right-click menus:
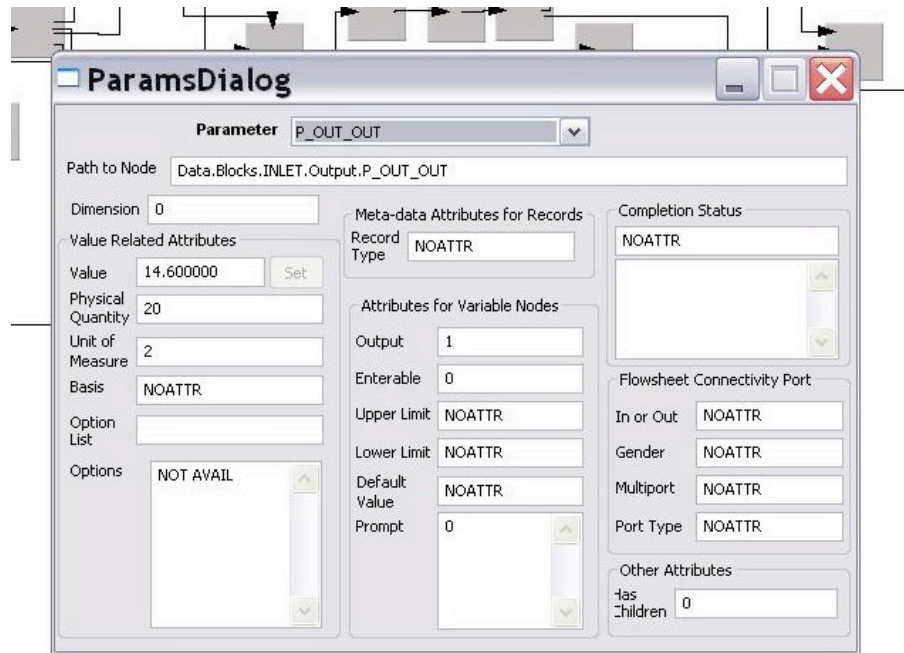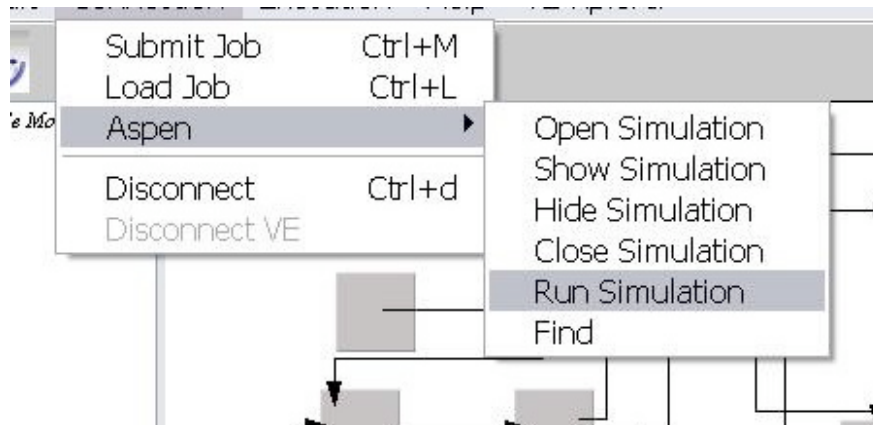

The Aspen unit operation name is shown below:

5. When the user chooses to investigate input variables, the parameters dialog allows any variable to be viewed for a specific unit operation and modified. This is also true for the results, except that the user is unable to change results.

Results:

6. Once the user changes an input, the flowsheet can be run in Aspen by selecting Connection→Aspen→Run Simulation:

Note: In addition to being able to run the Aspen flowsheet in traditional modes, there is also a 3D mode that can be viewed by selecting VE-Xplorer → Graphical View → Network: