

Getting started with Simulis® Thermodynamics

Case 3: Using CAPE-OPEN Property Packages in Simulis Thermodynamics



ProSim

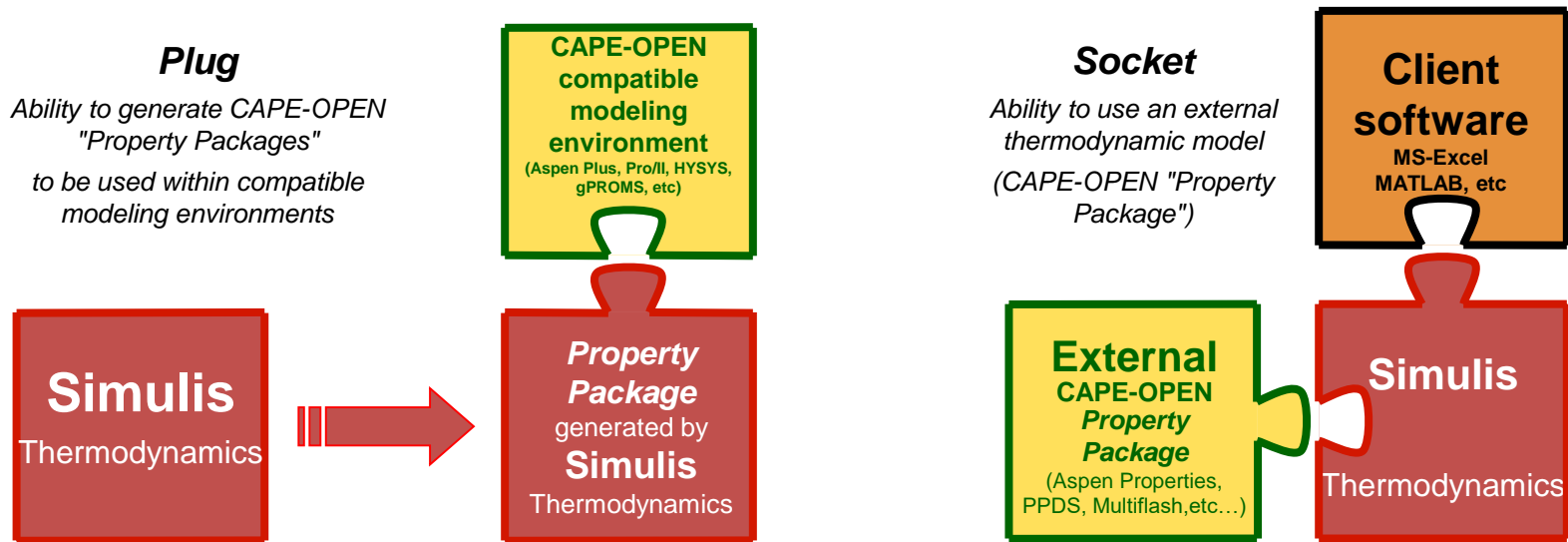
Software & Services In Process Simulation



Introduction

CAPE-OPEN Property Packages gather thermodynamic information on a model. You can use them in any CAPE-OPEN standard compliant application.

All data packages created with Simulis Thermodynamics are automatically CAPE-OPEN compliant (thermodynamic plug interface) and can be used in third parties applications. You can also import Property Packages that were created in other applications (thermodynamic socket interface).

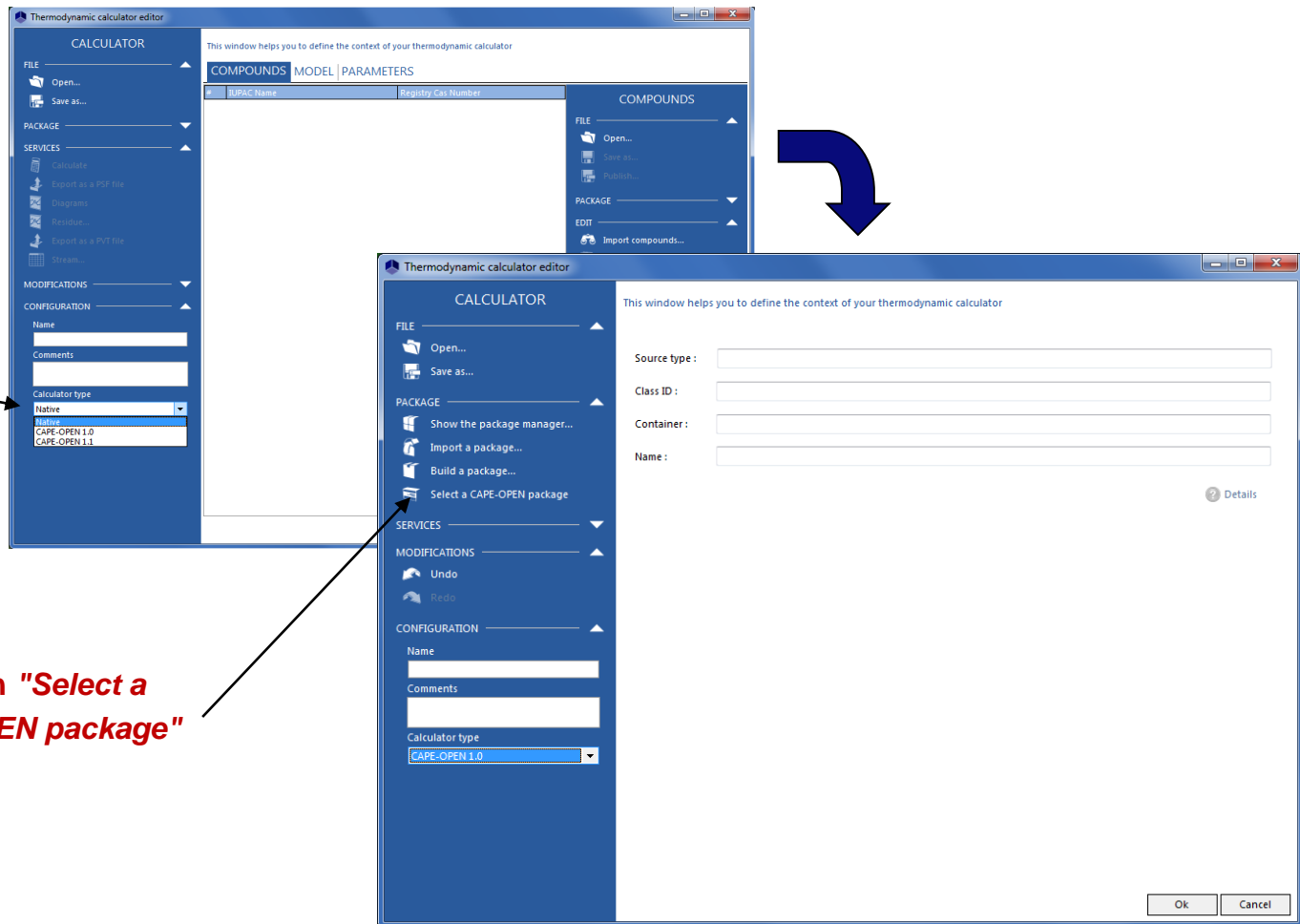


This document presents the different steps to follow in order to import a CAPE-OPEN Property Packages within Simulis. The process to create data packages in Simulis Thermodynamics is described in the "Getting started with Simulis Thermodynamics: Use Case 2".

Selecting a CAPE-OPEN Package

1. Select the type of calculator in the pull down list (here, choose **CAPE-OPEN**).

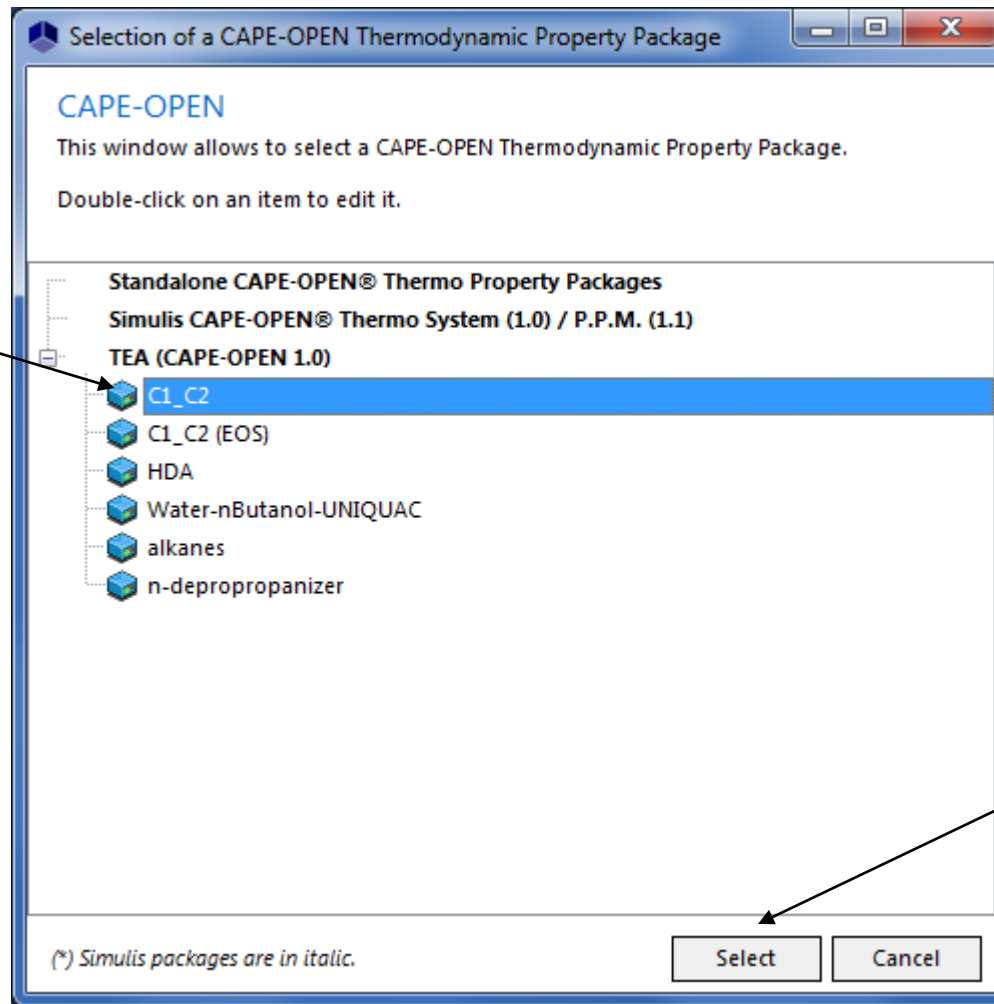
2. Click on "Select a CAPE-OPEN package"



It is possible to use different types of Calculators (also called *Calculation Engine*) through Simulis Thermodynamics interface. It is particularly useful if you have calculation methods that are different from the "native" ones, proposed by Simulis Thermodynamics.

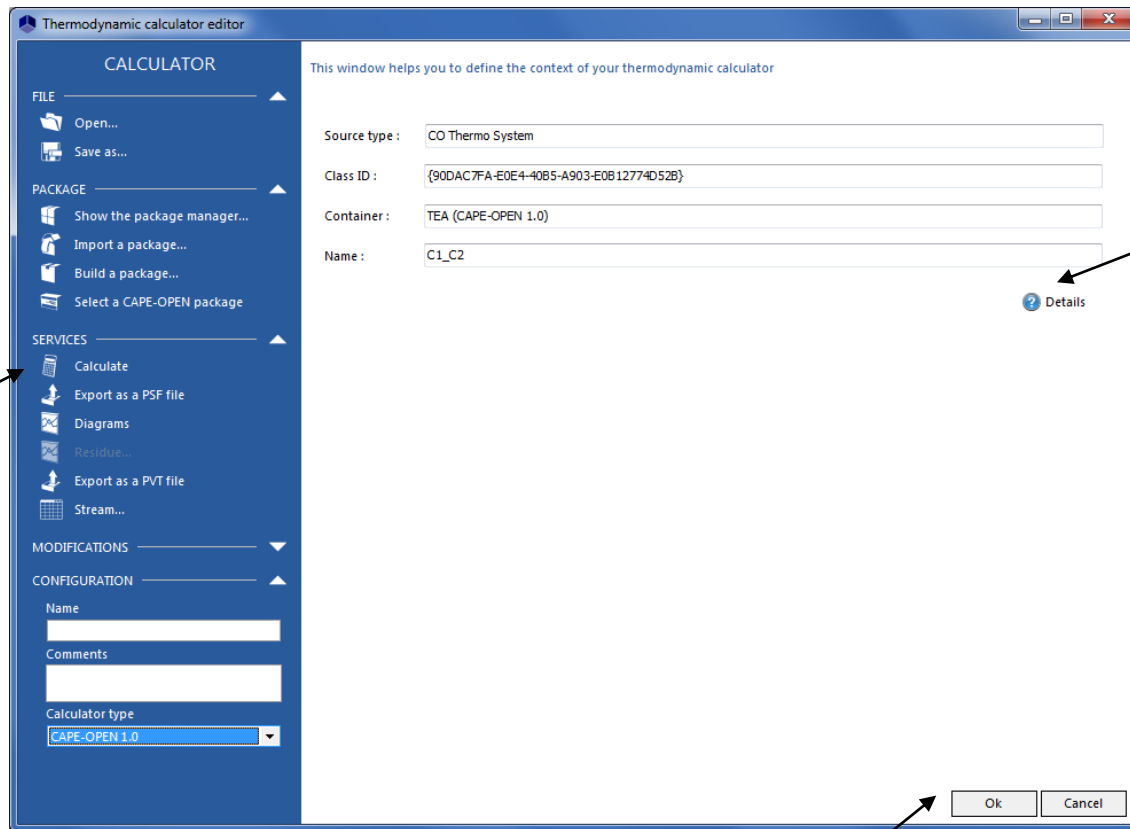
Selecting a CAPE-OPEN Package

1. Select the CAPE-OPEN package you want to use



2. Confirm your selection

Selecting a CAPE-OPEN Package



You can launch calculations directly from this window by clicking on "Calculate"

Click on "Details" to view the package information

Click here to validate and to go back to your Excel. The functions that use this calculator that you will set up in your spreadsheet will rely on the data provided by this package.

Detailed view of a CAPE-OPEN package

Edition of a CAPE-OPEN Thermodynamic Property Package

CAPE-OPEN
This window displays some information about a CAPE-OPEN Thermodynamic Property Package

URL Vendor : <http://www.cocosimulator.org/>

URL Help : [<none>](#)

Name:

Description:

ClassID:

ProgID:

InProcServer32:

Short description:

Full description:

Version: CAPE-OPEN version:

About:

Compounds list	Properties list	Phases list
Methane / 74-82-8 / CH4 Ethane / 74-84-0 / C2H6	activityCoefficient activityCoefficient.Dmoles activityCoefficient.DmolFraction activityCoefficient.Dpressure activityCoefficient.Dtemperature bubblePointTemperature density density.Dmoles	overall Vapor Liquid

Close

Source of the package

Description and technical information

Details of the package content (compounds, list of properties that can be computed with this package, phases)



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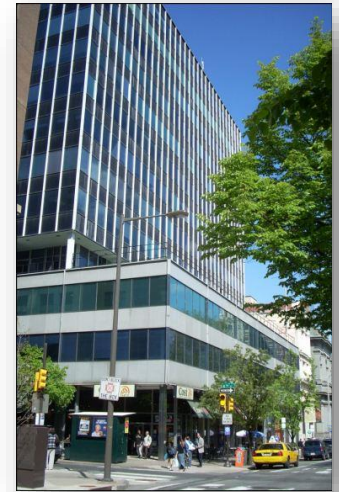


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