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Author(s):	Dipl.-Ing. André Meyer Dipl.-Ing. Timo Bohnenstädt, Prof. Dr.-Ing. Georg Fieg,
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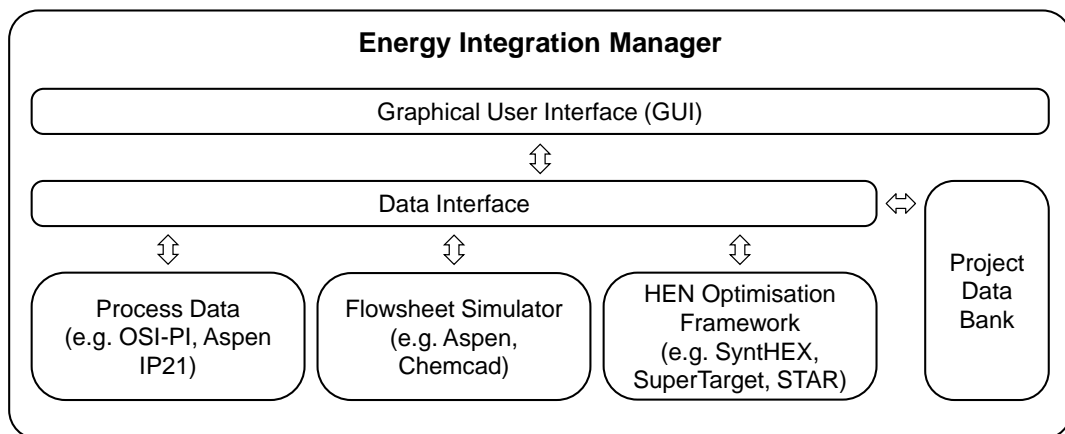
Dissemination Level

PU	Public	
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	X

Based on the last version of the Energy Integration Manager Tool (EnIgMa-Tool) new features have been included in the Software. Besides these new features some older features have been improved and extended to complete the prototype of the EnIgMa-Tool.

Several literature cases have been used to test and ensure the accurate functionality of the developed tool. Next to these idealized cases some cases from the industry have been tested as well. With the results of those test runs some parts of the importing of the data from the Aspen Plus process models have been worked over and extended. This specifically affects the handling of the heat streams in an Aspen Plus process model.

In Figure 1 the structure of the EnIgMa-Tool is given, which was already presented in Deliverable 11.2. It shows the main framework of the EnIgMa-Tool.



**Figure 1: Framework for Energy Integration Manager**

The most important improvements and features added are:

- improved graphical features in the Total Site Analysis
- improved handling of heat streams in Aspen Plus
- importing the data to the Aspen Energy Analyser

In addition plenty of tests have shown possibilities to improve the EnIgMa-Tool, which has been accomplished in the process