

How to use CMAS

2025-06-13

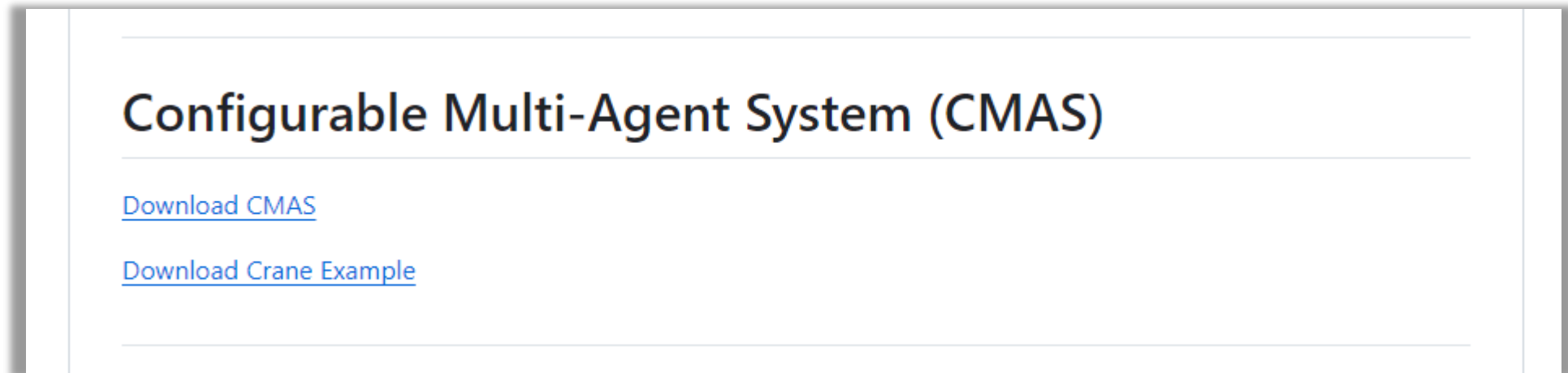


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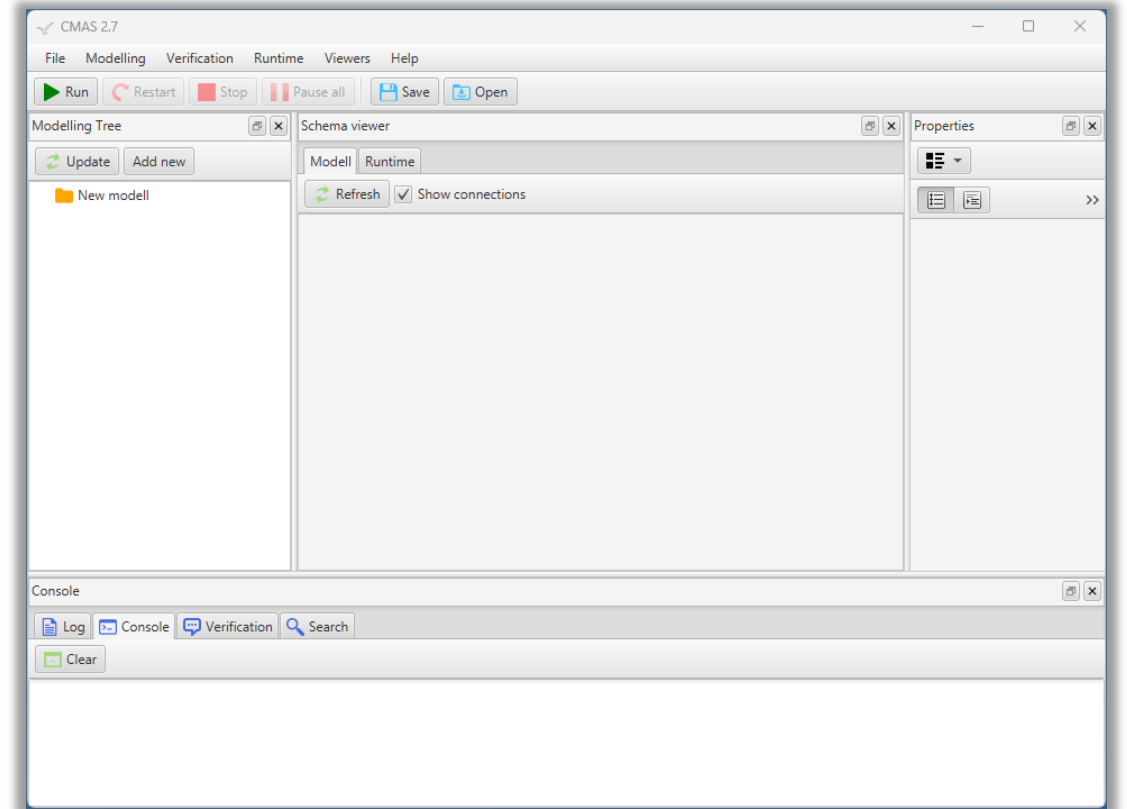
Download CMAS

- Go to the GitHub page for CMAS:
 - <https://github.com/UniversityWest-IndustrialAutomation/CMAS>
- You will find the following two links for downloading CMAS and an example project



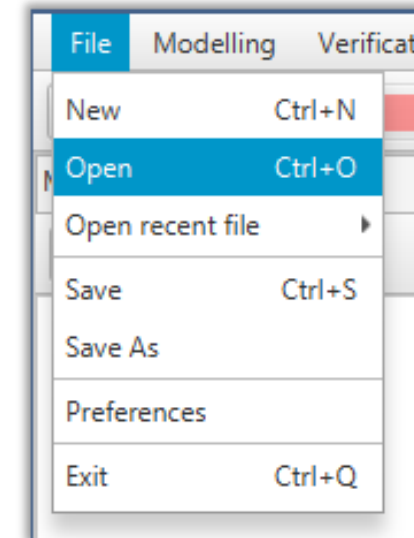
Installing CMAS

- Unzip CMAS at any location on your computer
- Run the *cmas.exe* to start the agent system
- Run the *simulation.exe* to start the simulation for an example of a Plug & Produce manufacturing system
- This simulation can be controlled from the CMAS system



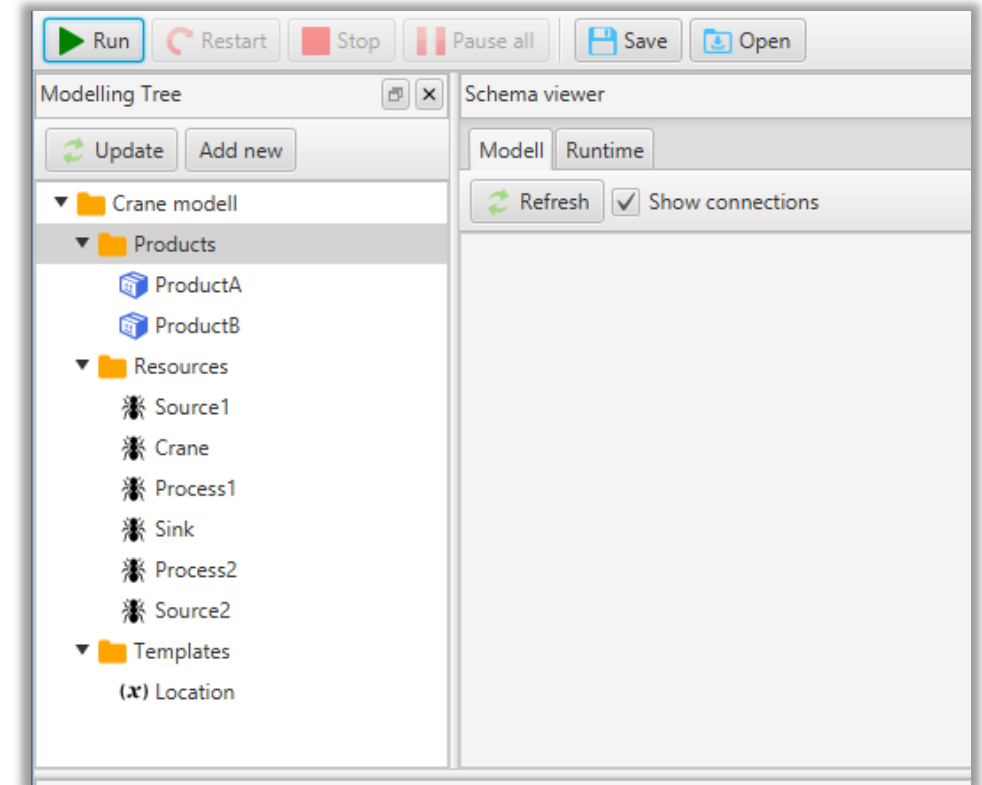
Open example project

- Download the crane example project from GitHub
- Unzip at any location on your computer
- Open the example project:
 - From the CMAS software go to the top menu bar
 - Select: *File > Open*
 - Locate the example (*.cmas file*) and open it



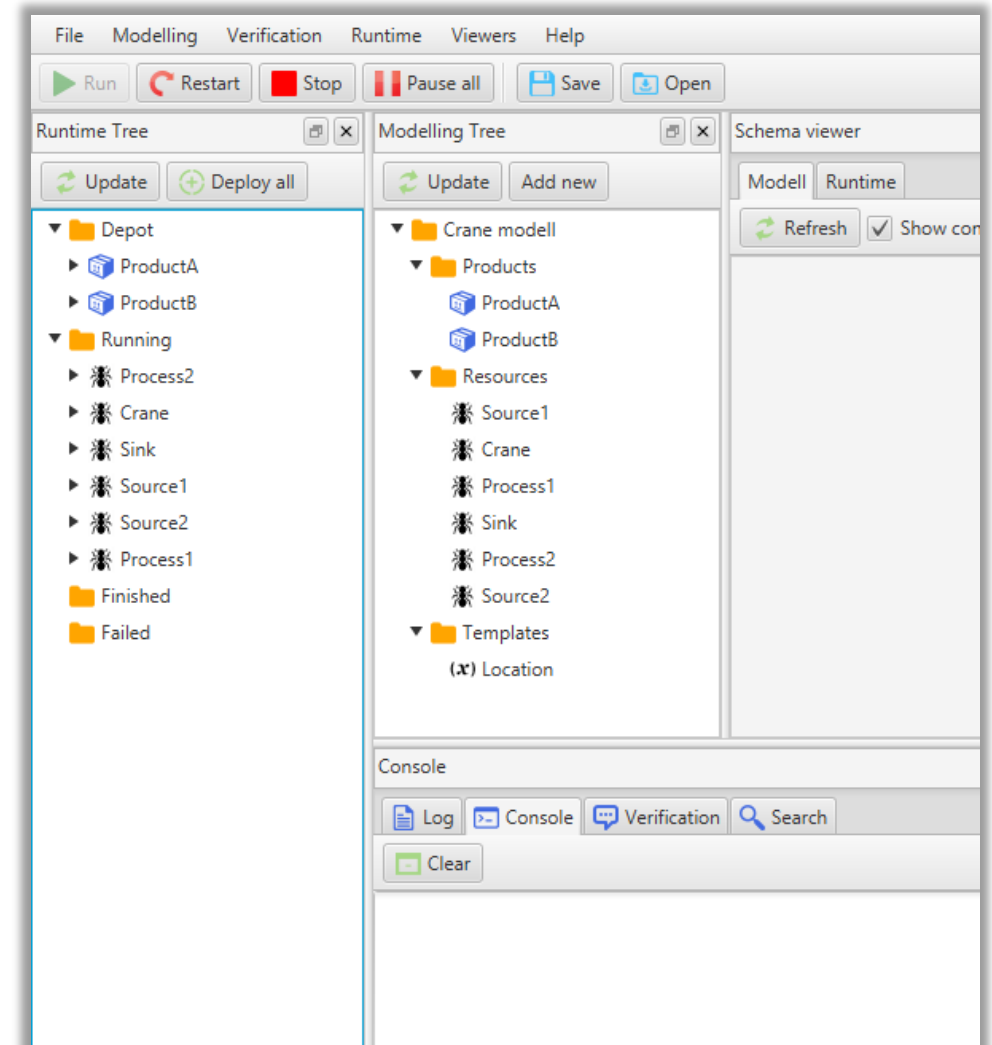
Modelling Tree

- You will see a *Modelling Tree* with all agents
- Here we can see two product agents: *ProductA* and *ProductB*
- There are six resource agents in the Model
- Each of these agents can also be seen in the simulation example



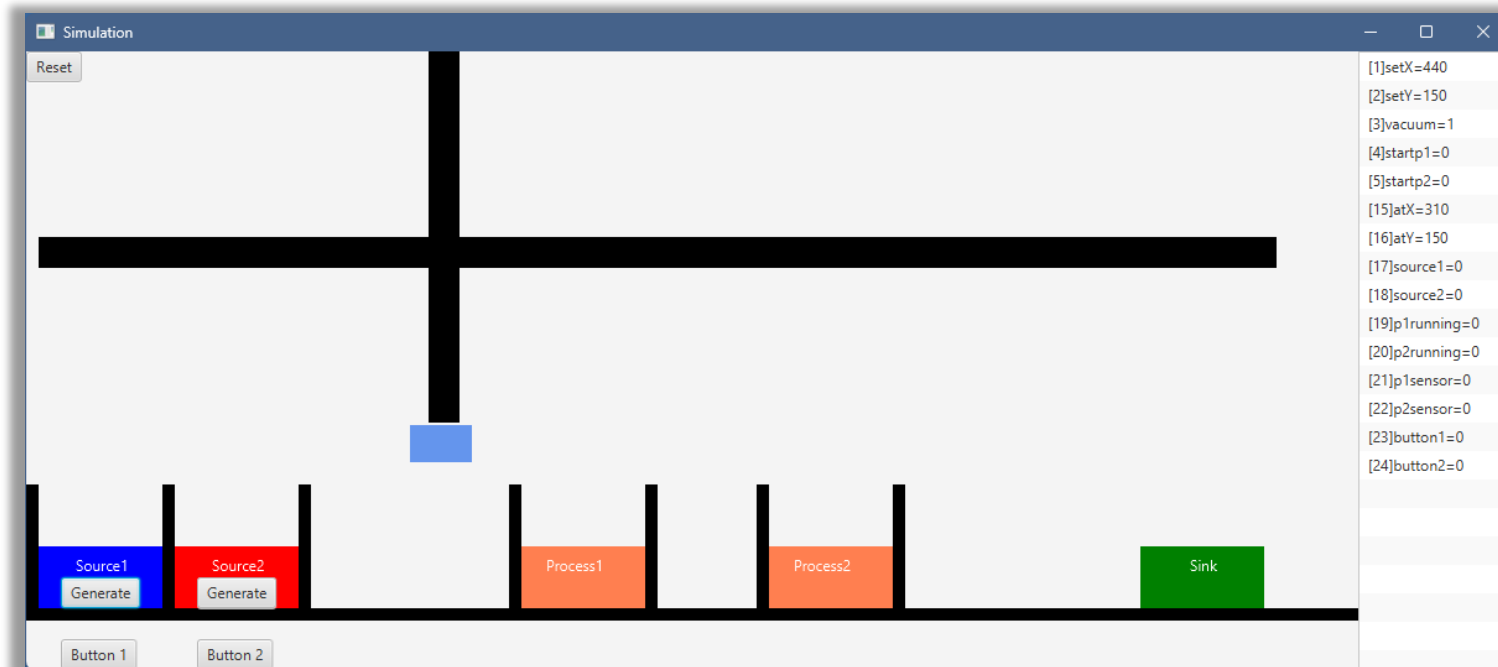
Runtime Tree

- Press the green *Run* button
- A *Runtime Tree* is opened where we can see that all resources are running
- The products are still in the *Depot* and will be deployed automatically when they are added to the simulation
- When a product agent is done with its manufacturing goals it jumps to *Finished*
- If an agent jumps to *Failed* it has some error that happened



Plug & Produce Simulation

- In the simulation you can press *Generate* on *Source 1* or *Source 2*
- This adds that product to the *Running* state in the CMAS software
- In this example, only one product can be deployed at one time, so do not add more than one part at a time

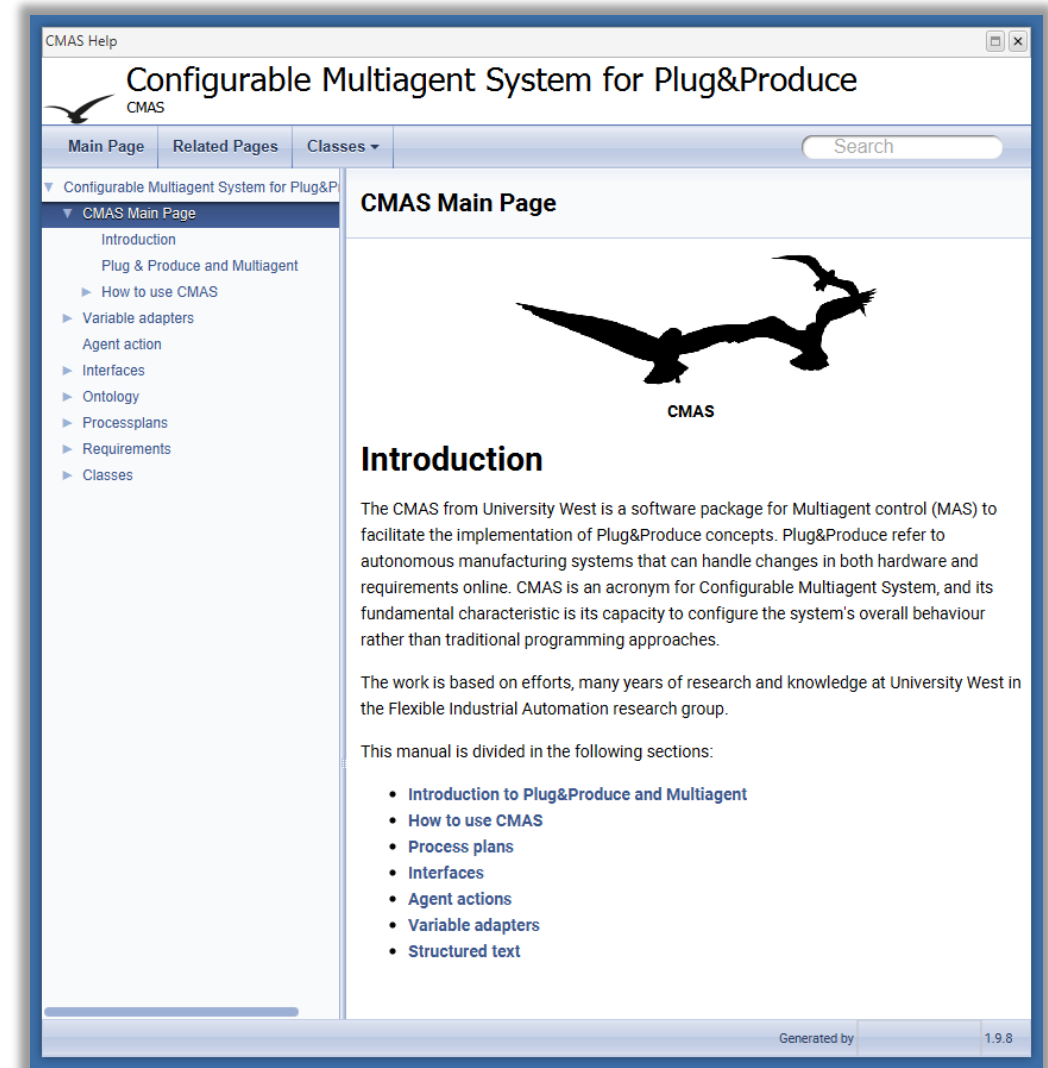


Documentation

- There is also comprehensive documentation built into the software
- Go to *Help > Help*



- This will open the documentation
- The chapter *How to use CMAS* gives a detailed introduction to how to use the software





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