

## G.P.U.P – Generic Platform for Utilizing Processes

G.P.U.P – Generic Platform for Utilizing Processes – The platform enables to model set of dependencies between components and handle them efficiently.

- **Insights:** The platform enables extract various insights out of the 'graph' of components: routes, circles, transitive dependencies etc.
- **Execution:** The platform enables running various tasks on the graphs nodes. It follows the Open-Close principle and can be extended with various tasks in the future.

**Tasks** can be, for example: compilation task ; testing task.

Execution is done in parallel to maximize efficiency of processing, Execution can be done on part of the graph, and/or only on the failed node from former execution etc.

- **Distribution:** The platform architecture enables distributed (remote) workers to connect to it and execute work on their private resources.

How its work?

There are 2 apps one for the admin and one for the worker.

The admin can upload graph by xml file and to interrogator the graph for: routes, circles, transitive dependencies etc. In addition, the admin can make new **Task** for the workers.

The worker can choose an available task and work on it. His work done in parallel (with threads pool).

