An advanced agent-based deployment software based on a semantic description of a targeted domain for advanced modeling and optimization of complex industrial systems. It was formed to reach a chosen research goal: "a purity to purpose."

The development has expanded to tailor agents services orchestration for control and simulation of industrial systems with utilization of both declarative and procedural explicit domain knowledge. Transparently, it demonstrates the advantages of application of semantic and multi-agent systems technologies in the industrial domain.

Distributed Y-Architecture model insures separated systems tasks and multiple sage-platforms execution on different computing units. This rapidly increases the performance of platform control and decision processes. Control layer manager distributed design can handle multiple disjunct sets of field-bus connections instances that mine information from various fields control systems.

Prototype includes software packages: Java SE, Eclipse RCP, Apache Ant, Jade, Jamod, JComm, Jena, Jogl, Pellet, RXTX, SWT