DIVA™: CASE Tool for Multi-agent System Design
Design, Verify and Build Complex Multi-agent Systems

DIVA™ is a CASE tool for the design, verification and automatic generation of three-tier architecture compliant code for multi-agent systems built to run on the Cybele® agent infrastructure.

Features

- Uses extended UML to describe multi-agent systems
- Integrated with the Eclipse
- Automatic code generation from a single extended UML design document
- Automatic generation of a verification model from the same design document
- Maximizes protocol reusability and extensibility
- Supports protocol composition
- Protocol repository for uploading and sharing domain independent roles, protocols, and domain objects

Protocol Design & Verification Capability

- Define roles and events associated with the protocol
- Design roles as extended UML state diagrams
- Verify roles and protocols
- Describe the desired protocol behavior using extended UML sequence diagrams
- Verify the behaviors via simulation
- Export the verified design and generate code

System Design & Code Generation Capability

- Import, modify or extend protocols
- Compose protocols to describe system behavior
- Generate 3-tier architecture compliant application code
- Import or implement domain layers
- Edit adapter layers
- Debug and test the system

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