AgentBuilder® Lite

An Integrated Toolkit for Constructing Intelligent Software Agents

AgentBuilder is an integrated software toolkit that allows software developers to quickly and easily develop intelligent software agents and agent-based applications. AgentBuilder reduces development time and cost and simplifies the development of high-performance, robust agent-based systems.
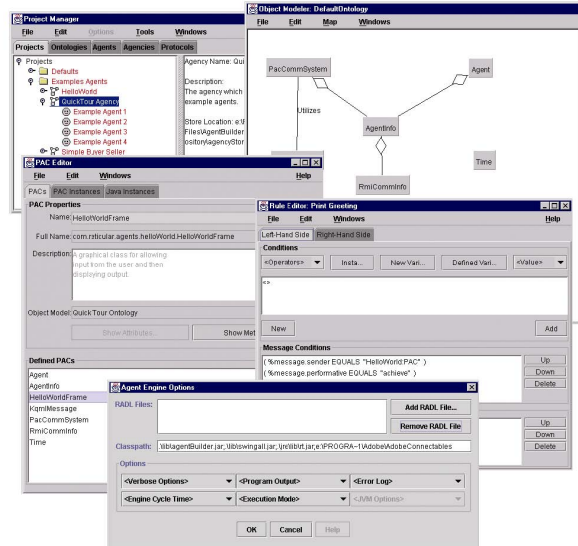
Building Intelligent Agents

AgentBuilder Lite is the entry-level product for agent software developers. It is ideal for students and professional software developers learning about agent technology. AgentBuilder Lite is well-suited for constructing single-agent, stand-alone applications and small agencies. Developers building large, multi-agent applications should consider AgentBuilder Pro for its advanced set of tools for agency debug and test.

AgentBuilder Lite provides graphical tools for supporting all phases of the agent construction process. Programming software agents (sometimes called Agent Oriented Programming or AOP) is accomplished by specifying intuitive concepts such as the beliefs, commitments, rules and actions of the agent. AgentBuilder makes it easy to add a graphical user interface to an agent or agent-enabled application. Developers can import existing classes into AgentBuilder and allow agents to utilize this legacy code. Special purpose Project Accessory Classes (PACs) for building agents that handle email, read and post to network newsgroups, communicate with web sites using HTTP protocol, and send/retrieve files via FTP are also available.

AgentBuilder Lite Tools

- Project Manager - organize and control project development
- Ontology Manager - analyze problem domain; Provides tools for creating ontologies, concept maps and object models
- Graphical object modeling tools which automatically generate agent code
- Rule Editor - specifies agent behavior by creating behavioral rules
- High-performance run-time engine
- Creates a flat text file (the agent definition file) which defines the agent's behavior and is executed by the run-time engine
- Monitor tools to control and view agent execution
- Debug tools for testing and debugging agents
- Supports easy integration and use of existing software libraries (Java, C and C++)
- Built-in KQML Agent Communication Language (ACL)
- Supports CORBA and IIOP protocols
- Supports TCP/IP sockets

Run-Time System

The run-time system consists of the agent program and AgentBuilder's run-time agent engine. The agent program is a combination of the agent definition and the private action library (i.e. agent actions and user interface libraries). The agent program is executed by AgentBuilder's run-time agent engine. The combination of the agent program and the agent engine create an executable agent.

System Requirements

AgentBuilder Lite is coded in Java and produces Java-based agents. AgentBuilder Lite is distributed with the JRE (Java Runtime Environment) for each supported platform. Both the AgentBuilder Lite toolkit and the run-time system execute on the Java Virtual Machine included with the JRE. AgentBuilder Lite distributions are available for a variety of platforms including Microsoft Windows NT/2000/XP, LINUX, and Sun Solaris.

Minimum AgentBuilder Pro development environment requirements are a 266 MHz Pentium class machine with 128 MB of RAM. The run-time engines are lightweight processes requiring less than 300KB of RAM.

For More Information Contact:
Acronymics, Inc.
1301 West 8th St, #28, Mesa, AZ 8520
Phone:(480) 615-8543 Fax (480) 615-1297
Web Site: http://www.agentbuilder.com
Email: informationAgent@agentbuilder.com with Subject:Information