# AgentBuilder® Pro

## An Integrated Toolkit for Constructing Multi-Agent Systems

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.
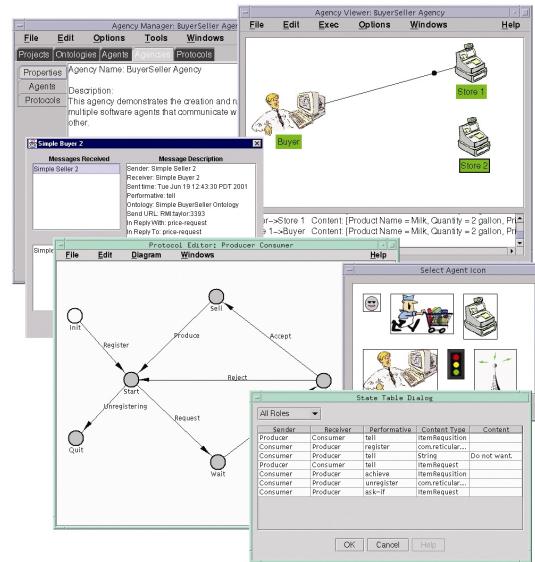
### Building Multi-Agent Systems

AgentBuilder Pro is designed for software developers building agent-based applications. AgentBuilder Pro has all of the tools and capabilities of AgentBuilder Lite. In addition, AgentBuilder Pro has an advanced suite of tools for building and testing multi-agent systems.

AgentBuilder Pro provides graphical tools for supporting all phases of the agent construction process. Programming software agents (sometimes called Agent-Oriented Programming) is accomplished by specifying intuitive concepts such as the beliefs, commitments, rules and actions of the agent. Agent-Builder Pro makes it easier to create, debug and test multi-agent systems. The software developer need only model the communications dialogs between agents using the protocol tools and AgentBuilder Pro will automatically construct the required behavioral rules required for implementing these conversations. This significantly reduces the amount of time required for building multi-agent systems. Special purpose PACs for building agents that handle email, read and post to network newsgroups, communicate with web sites using HTTP protocols, and send/retrieve files via FTP are also available.



**AgentBuilder Pro Tools** - include all of the tools and capabilities of AgentBuilder Lite plus:
- Agency Manager - defines the agents that comprise an agency
- Tools for defining inter-agent conversations - protocols
- Tools for associating agent protocol roles with individual agents
- Agency Viewer - allows the developer to control individual agents and examine the message traffic between agents
- Tools for automatically generating behavioral rules required for inter-agent communications
- Provides tools for defining agencies - collections of intelligent agents and their interactions
- Provides tools for testing and debugging agents and agencies
- 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 Agent-Builder'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 Pro is coded in Java and produces Java-based agents. AgentBuilder Pro 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 Pro 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