

Agent Platform Special Interest Group Charter

September 15, 2000

Mission

The mission of the Agent Platform Special Interest Group is to work with OMG platform and domain task forces:

- To extend the OMG Object Management Architecture (OMA) to better support agent technology.
- To identify and recommend new OMG specifications in the agent area.
- To recommend agent-related extensions to existing and emerging OMG specifications
- To promote standard agent modeling techniques that increase rigor and consistency of specifications.
- To enable developers to better understand how to develop agent-based applications, including large-scale distributed agent systems.
- To leverage and interoperate with other OMG specifications in the agent area.
- To liaise with related organizations that share common goals.

Scope

- multi-agent systems
- agent life cycle services
- agent modeling, declarative specifications, and meta models
- agent communication and conversation semantics
- agent security
- agent mobility
- teams, coordination and collaboration strategies
- expression of belief, desire and knowledge
- ontologies
- interoperability of agent technology
- emergent behavior and swarm intelligence
- testing, debugging, validation, and simulation of agent technology

Approach

The Agent Platform Special Interest Group aims to achieve its mission through the following activities:

- collect information via Request For Information
- develop an organized overview, survey, and possibly a reference architecture describing areas of agent technology and their relationship to each other
- develop a corresponding roadmap describing future technology adoption priorities
- initiate technology adoption processes via Requests for Proposals working with appropriate OMG Task Forces
- liaison with other OMG Working Groups, Task Forces and Special Interest Groups
- provide birds-of-a-feather forum for OMG focused on agent-object interoperability.
- liaison with external organizations and forums (e.g., FIPA and NIST)
- informational presentations to educate OMG about agent technology