

The FACPL language is the basis of a user-friendly, feasible and effective approach for developing, operating and maintaining policy-based autonomic systems. The language permits the expression of high-level policies regulating various aspects of a computer system, e.g., access control, resource usage and adaptation. It has a compact and intuitive syntax and is endowed with a denotational semantics providing a full formal account of the security model.

FACPL specifications are hierarchically structured in terms of FACPL elements, i.e., rules, policies and policy sets. These elements specify a name, the effect of a positive evaluation (i.e., permit or deny), target and conditions for applicability, the algorithm for combining the results of the evaluation of the contained elements, and a set of obligations, i.e., supplemental actions as for example updating a log file, sending a message, setting an attribute.

Deer Guide