Axiomatics Policy Server
Enterprise-wide Authorization for Applications

Features

- **Real-time, dynamic authorization**
  Grants or denies access to application features or database requests based on the organization’s rules of operation

- **Changes in operational rules are made once** and applied centrally rather than on each application

- **Complete solution for enterprise rollout** of Attribute-Based Access Control (ABAC)

- **Context-aware access control**:  
  - Cloud services  
  - Mobile environments  
  - BYOD environments  
  Adapting access to applications and data as appropriate per end-point

- **Industry standard policies**  
  - Axiomatics Policy Server fully implements XACML

Control and Visibility in a Complex Ecosystem

The Axiomatics Policy Server is the industry-leading solution to control access to critical applications. Using externalized dynamic authorization, it provides the fastest policy engine on the market, and the most complete solution available for enterprise-wide roll out of policy-based access control, using an Attribute Based Access Control approach.

As the IT environment gets more complicated, enterprises need a new approach to managing and changing complex access control models, often as part of digital transformation initiatives, and moving away from legacy role-based approaches. The Axiomatics Policy Server simplifies the task.

The Axiomatics Policy Server is an independent solution which easily integrates with Identity Management (IdM) Tools from leading vendors in the space. The rich APIs and advanced authorization services for all types of scenarios come combined with user-friendly interfaces for policy life-cycle management, service administration and monitoring. Unmatched performance, cost savings and speed-to-market makes Axiomatics Policy Server the preferred choice in many Fortune 100 enterprises and government agencies.

The ABAC Shift

Security experts agree that ABAC is the future of identity and access management. But as with any great technological shift, there are obstacles to be overcome. Axiomatics has learned from our customers that the greatest challenges they face in the shift to ABAC are of a non-technical nature.

Axiomatics Policy Server, with its graphical user interface for policy creation and editing, is designed to facilitate this transition by giving policy authors the power to represent policies graphically and policy administrators the means to verify and comment upon policies without the need for high levels of technical expertise.

Gartner predicts

“By 2020, 70% of enterprises will use ABAC as the dominant mechanism to protect critical assets, up from less than 5%.”
Axiomatics Policy Server is a robust solution with several components working together seamlessly. Clients send access requests to the server, which in turn grants or refuses access based on corporate policies that administrators define using Axiomatics user-friendly policy authoring tools. The authorization service may also consider context-related data retrieved from other sources.

- **Policy Decision Point (PDP):** This primary service makes policy-based permit/deny decisions. It evaluates policies written in the XACML 3.0 language, a rich, standards-based policy language capable of handling any level of complexity.

- **SQL statement authorization:** This service aligns database requests (SQL statements) with business rules defined as XACML policies.

- **Customized authorization:** An API allows customers to implement custom authorization services to enforce advanced access control conditions.

**User-friendly Policy Management**

Axiomatics Policy Server provides enhanced support for collaborative policy management. The existing stand-alone Policy Administration Point (PAP) and the ALFA-based Eclipse plugin are complemented with a web-based graphical Policy Editor.

- Attribute drop-down menus, speed up authoring
- Graphical user interface visualizes even extremely complex and nested expressions
- Concurrent users can edit policies
- The Policy Editor’s graphical capabilities simplify policy verification

**Simplified Team Collaboration**

The multi-projects feature continues to evolve to meet the complex requirements of managing isolated projects across business units. This allows administrators to maintain confidentiality, internal governance and regulatory compliance requirements.

**How it Works:**

- Administrators use the services manager for centralized management and monitoring of deployed authorization services.
- For policy authors several policy editors are available for management of XACML 3.0 conformant authorization policies.
- Authorization services are grouped and deployed in different authorization domains. Services inside a domain share the same set of policies and configurations. Each domain can contain redundant instances of authorization services to meet high availability needs.
- APIs for the authorization services are used to connect enforcement points which control access to information in managed applications. Toolboxes and software development kits (SDKs) help integrators and developers connect the applications they want to protect to the authorization services.
- Connectors to external attribute sources can be used to allow the authorization service to consider a rich context of enterprise attributes in the evaluation of authorization policies.

**Deployment Options**

To help your organization move quick on an ABAC project, Axiomatics can assist with a variety of configuration requirements of your enterprise. We offer successful implementation paths for on-premise, hybrid and cloud deployments.

Find out how you can secure your information assets without hindering your business. Contact webinfo@axiomatics.com today to learn more about our dynamic authorization solutions.