AXIOMATIC POLICY SERVER 6.2
Enterprise-wide authorization for applications

Benefits

- **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)**
  Organizations manage all their access control policies from one central point

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

- **Industry standard policies**
  Axiomatics Policy Server fully implements XACML v. 3.0

Is rigid access control impeding your profitability?

The complexity of today’s organizational environments leads to conflicting needs for data access. On the one hand, to meet compliance and regulatory requirements, data access needs to be limited to just those people that are authorized to see it. On the other, people need to collaborate and exchange information across regions, departments, channels and agencies. Existing access controls are inflexible and unable to meet the requirements of rapidly changing work environments.

Access control then becomes an impediment, hindering information sharing and collaboration and reducing overall efficiency. A shift to new models based on Attribute-Based Access Control (ABAC) is a must. Axiomatics Policy Server (APS) delivers an ABAC solution that puts access control in the service of collaboration while ensuring users can only share information they are authorized to access. The resulting gains in efficiency and enhanced collaboration can have significant impact on your organization’s bottom line.

Moreover, Axiomatics Policy Server helps organizations implement an ABAC approach that radically simplifies the challenge of maintaining and updating policies over time.¹ Unmatched performance makes APS the preferred choice among government agencies and Global 1000 enterprises.

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.

One such challenge is the ability to make ABAC policies accessible to a non-technical audience.

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.

¹ Enabling infrastructures with ABAC capabilities is being prioritized in US Government IT organizations as outlined in NIST Special Publication 800-162.

Gartner predicts

“By 2020, 70% of enterprises will use ABAC as the dominant mechanism to protect critical assets, up from less than 5% today.”
A new way to manage policies

As of version 6.0, Axiomatics Policy Server provides enhanced support for collaborative policy management. The existing stand-alone Policy Administration Point (PAP) and the ALFA-based Eclipse plugin have been complemented with a web-based graphical Policy Editor. The new Policy Editor has several key benefits:

- The graphical user interface visualizes even extremely complex and nested expressions
- Multiple concurrent users can edit policies
- The Policy Editor’s graphical capabilities simplify policy verification

A new way to manage projects

As of version 6.2, the new multi-projects feature makes it possible to manage multiple isolated projects from a single installation of the Axiomatics Services Manager, enhancing the ability of administrators to satisfy confidentiality, internal governance and enterprise compliance requirements.

Three services in one

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. APS comes with three different authorization service types:

- **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:** A second service aligns database requests (SQL statements) with business rules defined as XACML policies.
- **Customized authorization:** A third API allows customers to implement custom authorization services to enforce advanced filtering conditions.

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**The Policy Editor’s graphical user interface maps business rule statements to the core XACML policy elements—Policy Set, Policy, Rule and Reference—as easily manipulated nodes in a policy tree.**