AXIOMATICS

Why Externalize?

Background

Axiomatics understands our dynamic world that requires organizations to be more responsive. Typically, information and application access policies are hard coded into the application. That requires many months of coding efforts and man hours to make any policy changes, which no longer fits with the speed of business today.
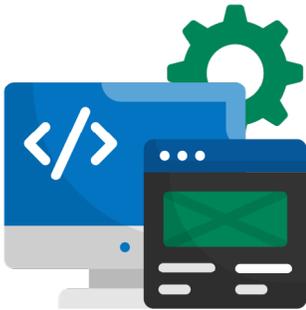
The Attribute Based Access Control (ABAC) model provides Externalized Dynamic Authorization by leveraging the principle that software code should be decoupled based on the function it serves. Instead of delivering applications with authorization hard-coded, the software developer simply implements core business functionality and reuses common blocks for nonfunctional aspects such as authentication, logging, and data storage.

For authorization requirements, this separates the management of access control policies from the application development lifecycle. In essence, it reduces the need to touch application code every time there is a business, regulatory or internal change. ABAC introduces a centralized mechanism to fine-tune and control who has access to what, and under what conditions that is coded once, and implemented across the application ecosystem.

For some developers, this is a new way of working, as they've been trained to include access control security within their code. Externalization is not a way of working that they're used to. But as more teams begin adopting a continuous development cycle, the decoupling of application code and security code makes sense. And once the development teams are educated and trained, there is a comfort level with ABAC handling even the most complex authorization requests, and a renewed focus on writing code that impacts customers and the business.

Key Benefits

- Simplify authorization requirements gathering & implementation
- Makes onboarding new APIs faster and more streamlined
- Provide agile, more loosely-coupled, flexible architecture
- Provide consistent & coherent authorization
- Enable policy-driven authorization
- Simplify audits & access reviews
- Save development time

Externalized Authorization

Offers maximum value if your organization:

- Has complex authorization needs
- Chooses to separate the implementation of application and authorization logic
- Develops/configures integrations and gateways
- Uses in-house developed/maintained applications

COMMON MISCONCEPTIONS

FALSE
Using Externalized Authorization will strongly hinder my system performance.

TRUE
Axiomatics' decision engine typically adds a minuscule amount of latency (single digit milliseconds). We also have established best practices for optimizing performance and scalability for the entire authorization infrastructure.

FALSE
Externalized Authorization requires a customer to consolidate their authentication.

TRUE
Externalized Authorization is a compliment to authentication and can be added even if you are already using multiple login credentials. Further, Axiomatics can enforce the use of stronger authentication credentials when accessing critical or sensitive resources and transactions.

FALSE
My developers can just write their own access control code when building the application.

TRUE
Maintaining logic built into an application is exponentially more costly and inefficient. In addition to the upfront developer cost when creating the application, the ongoing costs for making changes in the future can be quite significant.

FALSE
Roles and group lists are all I need for access control in our custom built applications.

TRUE
Externalized Authorization frees up your development team to focus on key initiatives and eliminates the need to write many extra lines of code to deal with complex access requirements. In addition, your application may not have all the needed context available to properly make authorization decisions - for example, the externalized authorization service can connect to almost any data source that provides additional user or resource context.

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About Axiomatics

Axiomatics is the originator and leading provider of runtime, fine-grained authorization delivered with attribute-based access control (ABAC) for applications, data, APIs and microservices. The company's Orchestrated Authorization strategy enables enterprises to effectively and efficiently connect Axiomatics' award-winning authorization platform to critical security implementations, such as Zero Trust or identity-first security. The world's largest enterprises and government agencies continually depend on Axiomatics' award-winning authorization platform to share sensitive, valuable and regulated digital assets — but only to authorized users and in the right context.

To learn more, please visit our website or follow us on **LinkedIn,** **Twitter,** and **YouTube.**

Learn more or request a demo of our solution:

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