



# Entitlement Management Software Development Kit

## THE SITUATION

Many large organizations have authorization and access control needs that cannot sufficiently be met with “off the shelf” solutions. Consequently, they often build their own custom (“homegrown”) applications to achieve their desired objectives. However, the administration of these custom applications can be quite cost-prohibitive. For instance, new business requirements or regulations may dictate that a new policy has to be created or updated in the custom application to accommodate the change. This process is expensive and limits the organization’s ability to respond rapidly in a dynamic business environment.



## THE SOLUTION

NextLabs Entitlement Management software development kit (EMSDK) enables the integration of applications into the NextLabs authorization management platform. Through the EMSDK, organizations can implement and enforce access control, governance, and compliance policies for their custom applications, just as they can for their commercial, “off the shelf” applications, effectively making NextLabs a centralized policy enforcement platform.

The following are the key capabilities:

- Externalized authorization management
- Integration with several different programming languages
- Granular data access control
- Simple policy creation
- Risk analytics
- Internet scale

## THE RESULTS

The EMSDK enables the following benefits:

- Externalize authorization management to simplify and reduce administration time for access control policies
- Centralize audit and reporting to streamline risk analytics
- Expedite application development for enhanced business agility
- Lower total cost of ownership by extending the NextLabs platform to include custom applications
- Reduce the cost of compliance through more efficient data monitoring and audit

## HOW IT WORKS

The EMSDK allows organizations to implement attribute-based access controls and entitlement management into key applications – both homegrown and third-party commercial applications. For homegrown applications, this is done via the APIs of the associated SDKs. These APIs enable the application to use the authorization capabilities provided by the NextLabs policy decision point (PDP, or NextLabs Policy Engine) directly.

For third-party commercial applications, a policy enforcement point (PEP) add-on needs to be created to interface with the NextLabs Policy Engine and the Control Center policy platform to allow for the application to extend or externalize authorization decisions. These PEPs perform authorization checks based on user activities to enforce the authorization decisions of the PDPs, which provide the core authorization capabilities together with a number of management, policy decision, event logging, and other functions to simplify and offload from the applications the complexity of managing authorizations.

The EMSDK includes code samples, tutorials, and testing tools needed for development and testing of the integration and the PEP developed. SDKs are available in various languages such as Java, .NET, JavaScript, PHP, C/C++, etc.

## AVAILABLE SDKS

Organizations can integrate their key applications into the NextLabs platform through the use of SDKs. With these SDKs, they can externalize and centrally manage authorization policies for their custom applications, just as they can for third-party commercial applications. The following is a list of supported application types and their associated SDKs.

Application	SDK
Java	Java SDK
JavaScript	JavaScript SDK
C, C++	C, C++ SDK
C#, .NET	C#, .NET SDK
PHP	REST API
Microsoft COM	C++ SDK
Cloud services	REST API
ABAP/SAP	SAP JCo SDK

## ABOUT NEXTLABS

NextLabs provides data-centric security software to protect business-critical data and applications. Our patented dynamic authorization technology and industry-leading attribute-based policy platform help enterprises identify and protect data, monitor and control access to sensitive data, and help prevent regulatory violations—whether on the cloud or on premise.

The software automates enforcement of security controls and compliance policies to enable secure information sharing across the extended enterprise. NextLabs has some of the largest global enterprises as customers and has strategic relationships with industry leaders.

For more information on NextLabs, please visit <http://www.nextlabs.com>

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