

# Software Component Governance Platform

## Management Solutions for Government Enterprises

The protexIP/development software component governance platform helps enterprises govern how their software components are specified, developed, acquired, and licensed. Black Duck Software's protexIP platform is a multi-user solution enabling enterprises to collaboratively manage their software intellectual property (IP) throughout its full development lifecycle – while specifying projects, implementing decision criteria, reviewing code, seeking component approvals, understanding license obligations, and creating reports. By validating software contents, providing a Bill of Materials and finding discrepancies early in the development cycle, the protexIP platform helps organizations reduce waste and complete software projects on time and on budget to conduct their mission.

### Benefits:

#### Accelerates Software Deployment

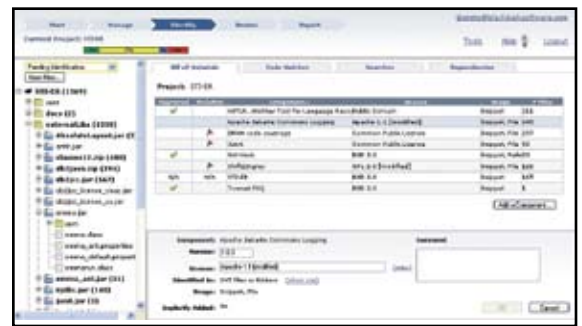
The Federal Enterprise Architecture, Federal CIO Council and OSD all acknowledge the critical need for government agencies and their contractors to implement software component reuse practices to meet mission objectives. The protexIP platform helps code developers reuse robust, richly featured open source and commercial code transparently. The protexIP platform provides up-to-date licensing information and a component Bill of Materials (BOM). By supporting proactive management of code reuse, protexIP minimizes redundancy, lowers costs and speeds time-to-deployment.

#### Automates Software Assurance

As military commands and government agencies increasingly embrace a model of distributed, component-based software development and reuse, new governance support systems are needed. The protexIP platform manages the complexity of software acceptance policy implementation and helps organizations independently validate and verify capabilities. This can remove dependence on locked-in, black-box software while making it possible to generate or require a BOM for all software during creation or acquisition. The protexIP governance solutions address “mixed-source” and open source code use, adding transparency and discipline to today's development process. This solution helps program managers, software developers, acquisition officers, business executives and legal teams make appropriate, informed decisions about software development and acceptance.

#### Fosters Adaptive Strategic Capabilities

U.S. national interest is best served by growing a wide, deep, and agile technology base. Protecting sensitive government assets need not conflict with



Black Duck's protexIP shows software Bill of Materials, indicating approved components and other component compliance data at a glance

open technology development (OTD). By fostering open standards, interoperable interfaces, and distributed modular development, OTD strengthens the technological industrial base. The protexIP platform analyzes source code and generates a BOM that allows recordation of the origin of component code, name, version, license details, and approval status. The BOM can feed into a repository that facilitates intra-enterprise code reuse. By supporting collaboration and transparency, the protexIP platform helps organizations embrace OTD as a transformative process.

#### Efficiently Identifies and Manages Software IP

The protexIP software governance platform identifies intellectual property (IP) licenses governing software modification, use and distribution. It helps protect enterprise IP, assists with license compliance and reporting, and identifies code that may conflict with established licensing terms or organizational governance policies. Thus, protexIP creates a collaborative environment that guides all stakeholders in their use of licensed materials and enables the implementation of consistent business process.

# Key protexIP/development Enterprise Edition Features

## Fast, thorough identification of open source and proprietary software components

- Reviews source code (any language including Java, C, C#, Visual Basic), binary code, images, fonts, etc.
- File and snippet analysis matches code against a comprehensive KnowledgeBase of open source and proprietary software components from 3,000+ open source sites and 1,000+ vendors
  - Intelligent snippet matching uses Code Prints™ to detect reused code, even when altered
  - Precision™ technology identifies the closest match to reused code, suppressing false positives
- String search analysis detects copyright notices, company names, and other text of interest
- Dependency analysis identifies referenced components by analyzing source (e.g., Java, C, C++) and binary files (e.g., JAR, CLASS, DLL, SO)
- Archive analysis reviews composite files (e.g., ZIP, JAR, TAR) to identify reuse of archive components.

## Easy to use

- Browser-based user interface (Firefox, Internet Explorer)
- Streamlined workflow includes Project Management, Code Identification, Component / License Review, Reporting
- Executive dashboard indicates compliance status instantly
- Code navigator provides “review at a glance” of a project’s code base and allows review by project, folder, file
- File comparison shows analyzed code side-by-side with KnowledgeBase match

## License management

- 1200+ open source and other licenses (e.g., GPL, LGPL, BSD) are included in the KnowledgeBase and associated with KnowledgeBase components
- Full license text is included for each license
- Each license is encoded into 24 attributes plus an obligation list
- Attributes provide automatic indication of license conflicts
- New licenses, including text, attributes, and obligation may be added

## Project review and approval

- Components and licenses may be approved or disapproved
- Obligation fulfillment checklist details the obligations accumulated from the licenses in effect
- Bill of Materials summarizes included components, licenses, approval status, linking method, license or policy violations
- Report generator creates Bill of Materials and other reports in HTML, Microsoft Excel and Word, OpenOffice
- Code Label, easy to read report that summarizes the contents of your code in a way that both technical and non-technical teams can easily interpret

## Enterprise-class

- Client-server architecture centralizes compliance data for shared access and collaboration
- Multi-user system protected with role-based access control
- Configurable policy administration
- Integrates with software development tools (e.g., configuration management, build systems) via command-line or optional SDK
- Custom Code Prints extend KnowledgeBase to customer or 3rd party code
- Automated web-based updates to KnowledgeBase and protexIP
- Software Developer’s Kit (SDK) available

## About Black Duck Software

Black Duck Software is the leading provider of software governance solutions that help organizations control how software resources are created, managed and licensed. Black Duck’s offerings help organizations take maximum advantage of open source software and satisfy the obligations associated with the code used. Black Duck’s customer base includes government, military and commercial enterprises, software developers, outsourcers, law firms, and other organizations worldwide that are concerned with protection of software intellectual property.



### Contact

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