

Mastering Web Services Security

Bret Hartman, Donald J Flinn, Konstantin Beznosov, Shirley Kawamoto

Book Summary by Brad Ruppert - February 25, 2009

Web Services provide a new avenue for businesses to extend their products and services to customers and other businesses far beyond what was once possible. This extension enables a business to increase customer loyalty, support increased sales efforts, and increase management of internal information. Along with this additional functionality comes a myriad of security vulnerabilities whereby your business's information is not only available to your customers and employees but potentially the confidentiality and integrity of the information is vulnerable to compromise if the web services are not properly secured. Understanding the available technologies, systems, protocols, and architectures will help ensure the proper security measures are taken to protect information assets, and to enable the business to grow.

There are many benefits for using web services which include increased efficiency and facilitation of real-time processing spanning not only the Internet but a company's extranets and intranets as well. Online financial institutions for example can provide their customers 24x7 accounting functionality, bill paying, funds transferring, and currency trading. Web applications hosted on company extranets can provide real-time data processing, and rule-based decision engines to retrieve, manipulate, and store information across multiple enterprise systems. Universities can leverage intranet knowledge repositories from campuses worldwide to share research findings and get answers to questions from subject matter experts.

The goal of Information Security is to continue to enable the business to function while protecting company assets. In the case of an online financial institution it is of utmost importance to ensure the integrity of the data within the core systems prevent unauthorized transactions or modifications. Within shared extranets, it is important that the availability of the systems remain functional 24x7 so that businesses can continue to operate in their expected fashion. If one system were to fail, it could compromise the functionality of multiple businesses that rely on the shared services of that extranet web service. Protecting the confidentiality of information assets within a corporate or university intranet is important to preventing data theft which could result in monetary or regulatory damages.

Web Services are comprised of several security requirements including authentication, authorization, cryptography, accountability, and security administration. Authentication refers to validating a user or system's (known as a principal) credentials against a known set of credentials to ensure the principal is who the principal claims to be. Authorization is the rule set that determines a principal's access to a system or resources. This is typically determined by the principal's role or authority level within the application. Cryptography provides the algorithms and protocols that protect data against unauthorized disclosure or modification. In the case of web services, cryptography

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Hartman

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