



# C# Data Security Handbook

By Matthew Macdonald, Eric Johansen

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This book is aimed at practicing C# developers who are developing distributed applications or who need to store data in a secure manner. This book aims to take C# developers with little or no knowledge of cryptography to the point where they can confidently implement their own secure applications.

This will cover the basics of using symmetric and asymmetric cryptography in .NET then we'll go on to examine how to make practical use of these technologies in the following areas:

Secure data exchange: securing online communications is vital to modern e-commerce applications, here we'll look at SSL, TLS, Secure Remoting and implementing cryptographic natively in your applications

Secure data storage: this is actually the more challenging, we'll examine how to store data securely in databases and on the NT file system using Windows secure storage API

Data Integrity: Here we examine the role of hash codes and signatures, either as an add-on to encryption, or in cases where data must be verified against changes

Authentication: Digital signatures still leave a problem, you know that a person with a certain digital signature sent the message, but how do you know whom that person is

Public Key Infrastructure: managing keys is actually one of the most challenging tasks for any secure application, here we'll look at how to minimise this burden

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## **C# Data Security Handbook** By Matthew Macdonald, Eric Johansen Bibliography

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### **Editorial Review**

#### **From the Publisher**

Put simply "When implementing a cryptographic system do it well or don't bother" cryptography isn't some sort of magic that you can make an application secure. You have to understand potential vulnerabilities for each technique if you are to be safe from attackers. While most of cryptographic algorithms implemented in the .NET Framework security namespaces are essentially unbreakable by any reasonable definition. The vast majority of flaws that lead to secret data being revealed to attackers are the results of mistakes in the implementation of applications. It is not enough just to show people how to use the .NET classes we also need to show them how to create solid implementations.

### **Users Review**

#### **From reader reviews:**

##### **William Nix:**

The experience that you get from C# Data Security Handbook could be the more deep you rooting the information that hide in the words the more you get enthusiastic about reading it. It doesn't mean that this book is hard to understand but C# Data Security Handbook giving you thrill feeling of reading. The copy writer conveys their point in particular way that can be understood by anyone who read the idea because the author of this book is well-known enough. This particular book also makes your own vocabulary increase well. Therefore it is easy to understand then can go together with you, both in printed or e-book style are available. We suggest you for having this specific C# Data Security Handbook instantly.

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##### **Marisa Reber:**

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**Lucia Stevenson:**

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