



# **Encryption in a Windows Environment:**


**EFS File, 802.1x Wireless, IPSec Transport, and S/MIME Exchange**

**Rand Morimoto**

**SAMS**

[www.sampublishing.com](http://www.sampublishing.com)

What This Short Cut Will Cover .....	3
Security the Manual Way .....	5
Installing a Windows Certificate of Authority Server .....	16
Implementing Encrypted File System (EFS) .....	23
Implementing IPSec-Encrypted Transport Communications .....	29
Implementing 802.1x Wireless Encryption .....	33
Implementing Secured Email Communications with Exchange 2003 .....	39
Summary and Other Resources .....	49



Many of the designations used by manufacturers and sellers to distinguish their products are claimed as trademarks. Where those designations appear in this work, and the publisher was aware of a trademark claim, the designations have been printed with initial capital letters or in all capitals.

The author(s) and publisher have taken care in the preparation of this work, but make no expressed or implied warranty of any kind and assume no responsibility for errors or omissions. No liability is assumed for incidental or consequential damages in connection with or arising out of the use of the information or programs contained herein.

Visit us on the Web: [www.sampublishing.com](http://www.sampublishing.com)

Copyright © 2007 Pearson Education, Inc.

All rights reserved. This publication is protected by copyright, and permission must be obtained from the publisher prior to any prohibited reproduction, storage in a retrieval system, or transmission in any form or by any means, electronic, mechanical, photocopying, recording, or likewise. For information regarding permissions, write to:

Pearson Education, Inc.  
Rights and Contracts Department  
One Lake Street  
Upper Saddle River, NJ 07458  
United States of America  
Fax: (201)236-3290

ISBN 0-768-66829-8

First release, June 2006

# **Encryption in a Windows Environment: EFS File, 802.1x Wireless, IPSec Transport, and S/MIME Exchange (Digital Short Cut)**

## **Table of Contents**

What This Short Cut Will Cover

Security the Manual Way

Installing a Windows Certificate of Authority Server

Implementing Encrypted File System (EFS)

Implementing IPSec-Encrypted Transport Communications

Implementing 802.1x Wireless Encryption

Implementing Secured Email Communications with Exchange 2003

Summary and Other Resources