Contents

Foreword		xiii
Preface		XV
Acknowledgn	nents	xvii
PART I	THE PROBLEM AND BASIC TOOLS	
CHAPTER 1	The Problem: Securing Confidential Electronic	2
	Documents	3
	WikiLeaks: A Wake-Up Call	3
	U.S. Government Atten ets to Protect Intellectual Property	5
	Threats Persist across the Pond: U.K. Companies on Guard	5
	Increase in Corporate and Industrial Espionage	6
	Risks of Medical Identity Theft	7
	Why Don't Organizations Safeguard Their Information Assets?	8
	The Blame Game: Where Does Fault Lie When Information Is Leaked?	9
	Consequences of Not Employing E-Document Security	10
	Notes	11
CHAPTER 2	Information Governance: The Crucial First Step	13
	First, Better Policies; Then, Better Technology for Better Enforcement	13
	Defining Information Governance	14
	Accountability Is Key	16
		vii

viii		Contents
	Why IG Is Good Business	17
	Impact of a Successful IG Program	18
	Critical Factors in an IG Program	19
	Who Should Determine IG Policies?	22
	Notes	23
PART II	INFORMATION PLATFORM RISKS AND COUNTERMEASURES	
CHAPTER 3	Managing E-Documents and Records	27
	Enterprise Content Management	27
	Document Management Principles The Goal: Document Lifecycle Security	28
	The Goal: Document Lifecycle Security	29
	Electronic Document Management Systems	29
	Records Management Principles	31
	Electronic Records Management	31
	Notes	33
CHAPTER 4	Information Governance and Security for E-mail Messages	35
	Employees Regularly Expose Organizations to E-mail Risk	36
	E-mail Policies Should Be Realistic and Technology Agnostic	37
	Is E-mail Encryption the Answer?	38
	Common E-mail Security Mistakes	39
	E-mail Security Myths	40
	E-record Retention: Fundamentally a Legal Issue	41
	Preserve E-mail Integrity and Admissibility with Automatic Archiving	42
	Notes	46
CHAPTER 5	Information Governance and Security for Instant Messaging	49
	Instant Messaging Security Threats	50
	Best Practices for Business IM Use	51

Contents		ix
	Technology to Monitor IM	53
	Tips for Safer IM	53
	Notes	55
CHAPTER 6	Information Governance and Security for Social Media	57
	Types of Social Media in Web 2.0	57
	Social Media in the Enterprise	59
	Key Ways Social Media Is Different from E-mail and Instant Messaging	60
	Biggest Security Threats of Social Media	60
	Legal Risks of Social Media Posts	63
	Tools to Archive Facebook and Twitter	64
	IG Considerations for Social Media	65
	Notes	66
CHAPTER 7	Information Governance and Security for Mobile	
CHAITER /	Devices	69
	Current Trends in Mobile Computing	71
	Security Risks of Mobile Computing	72
	Securing Mobile Data	73
	IG for Mobile Computing	73
	Building Security into Mobile Applications	75
	Best Practices to Secure Mobile Applications	78
	Notes	80
CHAPTER 8	Information Governance and Security for Cloud	
	Computing Use	83
	Defining Cloud Computing	84
	Key Characteristics of Cloud Computing	85
	What Cloud Computing Really Means	86
	Cloud Deployment Models	87
	Greatest Security Threats to Cloud Computing	87
	IG Guidelines: Managing Documents and Records	
	in the Cloud	94
	Managing E-Docs and Records in the Cloud: A Practical Approach	95
	Notes	93 97
	110100	//

Contents

PART III	E-RECORDS CONSIDERATIONS	
CHAPTER 9	Information Governance and Security for Vital Records	101
	Defining Vital Records	101
	Types of Vital Records	103
	Impact of Losing Vital Records	104
	Creating, Implementing, and Maintaining a Vital	
	Records Program	105
	Implementing Protective Procedures	108
	Auditing the Vital Records Program	111
	Notes	113
CHAPTER 10	Long-Term Preservation of E-Records	115
	Defining Long-Term Digital Preservation	115
	Key Factors in LTDP	116
	Electronic Records Preservation Processes	118
	Controlling the Process of Preserving Records	118
	Notes	121
PART IV	INFORMATION TECHNOLOGY CONSIDERATIONS	
CHAPTER 11	Technologies That Can Help Secure E-Documents	125
	Challenge of Securing E-Documents	125
	Apply Better Technology for Better Enforcement in	
	the Extended Enterprise	128
	Controlling Access to Documents Using Identity	
	Access Management	131
	Enforcing IG: Protect Files with Rules and Permissions	133
	Data Governance Software to Manage Information Access	133
	E-mail Encryption	134
	Secure Communications Using Record-Free E-mail	134
	Digital Signatures	135
	Document Encryption	137
	Data Loss Prevention Technology	137

Contents		xi
	The Missing Piece: Information Rights Management	139
	Notes	144
CHAPTER 12	Safeguarding Confidential Information Assets	147
	Cyber Attacks Proliferate	147
	The Insider Threat: Malicious or Not	148
	Critical Technologies for Securing Confidential Documents	150
	A Hybrid Approach: Combining DLP and IRM Technologies	154
	Securing Trade Secrets after Layoffs and Terminations	155
	Persistently Protecting Blueprints and CAD Documents	156
	Securing Internal Price Lists	157
	Approaches for Securing Data Once It Leaves the Organization	157
	Document Labeling	159
	Document Analytics	161
	Confidential Stream Messaging	161
	Notes	164
PART V	ROLLING IT OUT. PROJECT AND PROGRAM ISSUES	
CHAPTER 13	Building the Business Case to Justify the Program	169
	Determine What Will Fly in Your Organization	169
	Strategic Business Drivers for Project Justification	170
	Benefits of Electronic Records Management	173
	Presenting the Business Case	176
	Notes	177
CHAPTER 14	Securing Executive Sponsorship	179
	Executive Sponsor Role	180
	Project Manager: Key Tasks	181
	It's the Little Things	183
	Evolving Role of the Executive Sponsor	183
	Notes	185

Index

249

xii		Content
CHAPTER 15	Safeguarding Confidential Information Assets: Where Do You Start?	187
	Business Driver Approach	187
	Classification	188
	Document Survey Methodology	189
	Interviewing Staff in the Target Area	190
	Preparing Interview Questions	192
	Prioritizing: Document and Records Value Assessment	193
	Second Phase of Implementation	194
	Notes	195
CHAPTER 16	Procurement: The Buying Process	197
	Evaluation and Selection Process: RFI, RFP, or RFQ?	197
	Evaluating Software Providers: Key Criteria	202
	Negotiating Contracts: Ensuring the Decision	207
	More Contract Caveats	210
	How to Pick a Consulting Firm: Evaluation Criteria	213
CHAPTER 17	Maintaining a Secure Environment for Information Assets	215
	Monitoring and Accountability	215
	Continuous Process Improvement	216
	Why Continuous Improvement Is Needed	216
	Notes	218
Conclusion	,	219
Appendix A: 1	Digital Signature Standard	221
Appendix B: I	Regulations Related to Records Management	223
Appendix C: 1	Listing of Technology and Service Providers	227
Glossary		241
About the Aut	thor	247