Lecture Notes in Computer Science 3654

Sushil Jajodia   Duminda Wijesekera (Eds.)

Data and Applications Security XIX

19th Annual IFIP WG 11.3 Working Conference on
Data and Applications Security
Storrs, CT, USA, August 7-10, 2005
Proceedings

Springer

Volume Editors

Sushil Jajodia
Duminda Wijesekera
George Mason University
Center for Secure Information Systems
Fairfax, VA 22030, USA
E-mail: {jajodia,dwijesek}@gmu.edu

Library of Congress Control Number: 2005929872

CR Subject Classification (1998): E.3, D.4.6, C.2, F.2.1, J.1, K.6.5

ISSN 0302-9743
ISBN-10 3-540-28138-X Springer Berlin Heidelberg New York
ISBN-13 978-3-540-28138-2 Springer Berlin Heidelberg New York

Springer is a part of Springer Science+Business Media

springeronline.com

Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India
Printed on acid-free paper SPIN: 11535706 06/3142 5 4 3 2 1 0

Preface

The 19th Annual IFIP Working Group 11.3 Working Conference on Data and Applications Security was held August 7–10, 2005 at the University of Connecticut in Storrs, Connecticut. The objectives of the working conference were to discuss in depth the current state of the research and practice in data and application security, enable participants to benefit from personal contact with other researchers and expand their knowledge, support the activities of the Working Group, and disseminate the research results.

This volume contains the 24 papers that were presented at the working conference. These papers, which had been selected from 54 submissions, were rigorously reviewed by the Working Group members. The volume is offered both to document progress and to provide researchers with a broad perspective of recent developments in data and application security.

A special note of thanks goes to the many volunteers whose efforts made the working conference a success. We wish to thank Divesh Srivastava for agreeing to deliver the invited talk, Carl Landwehr and David Spooner for organizing the panel, the authors for their worthy contributions, and the referees for their time and effort in reviewing the papers. We are grateful to T. C. Ting for serving as the General Chair, Steven Demurjian and Charles E. Phillips, Jr. for their hard work as Local Arrangements Chairs, and Pierangela Samarati, Working Group Chair, for managing the IFIP approval process. We would also like to acknowledge Sabrina De Capitani di Vimercati for managing the conference's Web site.

Last but certainly not least, our thanks go to Alfred Hofmann, Executive Editor of Springer, for agreeing to include these proceedings in the Lecture Notes in Computer Science series. This is an exciting development since, in parallel to the printed copy, each volume in this series is simultaneously published in the LNCS digital library (www.springerlink.com). As a result, the papers presented at the Working Conference will be available to many more researchers and may serve as sources of inspiration for their research. The expanded availability of these papers should ensure a bright future for our discipline and the working conference.

August 2005 Sushil Jajodia and Duminda Wijesekera

Organization

General Chair	T. C. Ting (University of Connecticut, USA)
Program Chairs	Sushil Jajodia and Duminda Wijesekera (George Mason University, USA)
Organizing Chairs	Steven Demurjian and Charles E. Phillips, Jr. (University of Connecticut, USA)
IFIP WG11.3 Chair	Pierangela Samarati (Università degli Studi di Milano, Italy)

Program Committee

Gail-Joon Ahn	University of North Carolina at Charlotte, USA
Vijay Atluri	Rutgers University, USA
Sabrina De Capitani di Vimercati	Università degli Studi di Milano, Italy
Steve Demurjian	University of Connecticut, USA
Roberto Di Pietro	University of Rome “La Sapienza”, Italy
Csilla Farkas	University of South Carolina, USA
Eduardo Fernandez-Medina	Univ. of Castilla-La Mancha, Spain
Simon N. Foley	University College Cork, Ireland
Ehud Gudes	Ben-Gurion University, Israel
Carl Landwehr	National Science Foundation, USA
Tsau Young Lin	San Jose State University, USA
Peng Liu	Pennsylvania State University, USA
Sharad Mehrotra	University of California, Irvine
Ravi Mukkamala	Old Dominion University, USA
Peng Ning	North Carolina State University, USA
Sylvia Osborn	University of Western Ontario, Canada
Brajendra Panda	University of Arkansas, USA
Joon Park	Syracuse University, USA
Charles Phillips	U.S. Military Academy, USA
Indrakshi Ray	Colorado State University, USA
Indrajit Ray	Colorado State University, USA
Pierangela Samarati	University of Milan, USA
Sujeet Shenoi	University of Tulsa, USA
David Spooner	Rennselaer Polytechnic Institute, USA
Bhavani Thuraisingham	University of Texas at Dalla, and The MITRE Corp., USA
T.C. Ting	University of Connecticut, USA
Ting Yu	North Carolina State University, USA

Sponsoring Institutions

Center for Secure Information Systems, George Mason University
Department of Computer Science and Engineering, University of Connecticut
Dipartimento di Tecnologie dell'Informazione, Università degli Studi di Milano

Table of Contents