CHAPTER 11

Web Security and Privacy

Panel 1

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Abstract: This panel discussed various issues on web security and privacy including XML security, data mining for intrusion detection, and various other aspects including e-commerce security.

1. INTRODUCTION

The panel consisted of the following researchers.

- * E. Bertino, University of Milan
- * E. Damiani, George Mason University and University of Milan
- * Kristin Nauta, SAS Institute
- * Sushil Jajodia, George Mason University

The panel discusses essentially summarized the papers and research by the authors presented mainly at the conference. In section 2 we summarize the discussions and in section 3 we discuss future directions.

2. Panel Content

Bertino and Damiani discussed XML security. In particular, Bertino's discussion focussed on the paper she and co-author presented on access control for XML. This was followed by Damiani's discussion on standards work for XML. The panel also discussed the W3C work on XML security and where one could get more information.

Nauta discussed essentially her keynote presentation that was to follow. This was on using intrusion detection techniques for intrusion detection. This is a subject of much interest to the group these days and Nauta presented various techniques they were applying. Jajodia provided his

views on e-commerce security as well as integrity. E-commerce security is also getting a lot of attention when we discuss web security.

Thuraisingham concluded the panel with privacy issues. The same question that she has been repeating at various IFIP keynote presentations and panels in 1996, 1997 and 1998 were repeated. While data mining helps intrusion detection it does invade into the privacy of people. What can we do about it? There were no solution, but interesting discussions.

The audience was very active and asked many questions on all aspects covered by the panelists including XML security, data mining for intrusion detection and e-commerce security. It was also mentioned that we need a research agenda for web and e-commerce security.

3. Future Directions

As suggested by the audience, we need a research agenda. IFIP 11.3 is in a good position to draft the agenda for web security. There is a lot of work that is being done outside. WE need to survey what is being done and then formulate a research plan. While data mining shows much promise, we are still not sure what to do about privacy issues. Some say that there are no technical solutions and that we need legal solutions. We still need to investigate this area and hopefully in years to come we can come to some acceptable solution. Everyone was convinced that we security is one of the critical areas in computer science research today.