UNIVERSITY OF SOUTH FLORIDA

Defense of a Master's Thesis

Tradeoffs in Protocol Designs for Collaborative Authentication by Iacob Venne

For the MSCS degree in Computer Science & Engineering

Authentication is a crucial tool used in access control mechanisms to verify a user's identity. Collaborative Authentication (co-authentication) is a newly proposed authentication scheme designed to improve on traditional token authentication. Co-authentication works by using multiple user devices as tokens to collaborate in a challenge and authenticate a user request on single device.

This thesis adds two contributions to the co-authentication project. First, a detailed survey of applications that are suitable for adopting co-authentication is presented. Second, an analysis of tradeoffs between varying protocol designs of co-authentication is performed to determine whether, and how, any designs are superior to other designs.

March 9, 2017 11:00 AM ENB 313

THE PUBLIC IS INVITED

Examining Committee

Jay Ligatti, Ph.D., Major Professor Dmitry Goldgof, Ph.D. Xinming "Simon" Ou, Ph.D.

Robert Bishop, Ph.D. Dean, College of Engineering Dwayne Smith, Ph.D. Dean, Office of Graduate Studies

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