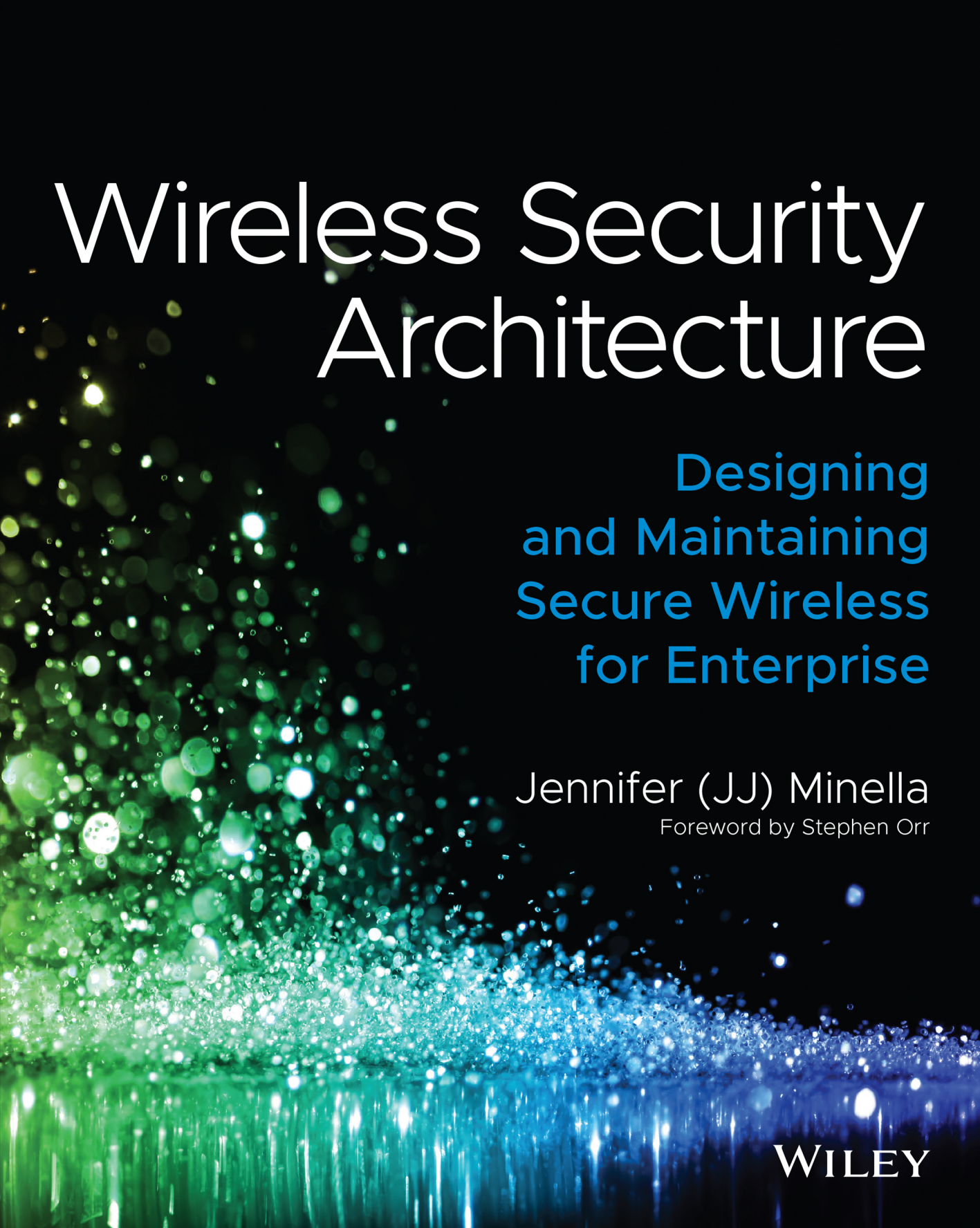
Wireless Security Architecture

Designing and Maintaining Secure Wireless for Enterprise

Jennifer (JJ) Minella
Foreword by Stephen Orr



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This book is dedicated to my parents: to my Dad, who taught me to "follow the packet" and to my spunky Mom who we're told was the first woman in the world with a WLAN certification.

—Jennifer Minella

About the Author

Having begun working in the tech industry at the tender age of 14, **Jennifer (JJ) Minella** has spent the last 20 years helping security-conscious organizations solve network security challenges in meaningful ways.

Throughout that time, Jennifer has led strategic research and consulting for hundreds of organizations ranging from government, education, healthcare, and mid-market up to Fortune-5. This book is based on experience accumulated through the thousands of consulting and implementation engagements across these diverse environments. Jennifer holds, or has held, numerous technical certifications over the years ranging from switching and routing to firewalls, remote access, NAC, Wi-Fi, and IoT wireless, along with CISSP and other security certifications.

She's also a published author, internationally recognized speaker on network security and identity, analyst with IANS, member of Forbes Technology Council, and former chairperson of $(ISC)^2$. Combining master-level network architecture skills with CISO and compliance experience, she continues her mission of aligning security and networking as Founder and Principal Advisor of Viszen Security.

Jennifer is also known for introducing mindfulness-based leadership to individuals and organizations in infosec. And aside from meditation and security, she's a competitive powerlifter and dancer. It's also been reported that she loves Figment, the Imagination Dragon. For more information visit her company at `www.viszensecurity.com` or award-winning blog at `www.securityuncorked.com`.

About the Technical Editor

Stephen Orr is a twenty-three-year veteran of Cisco and serves as a Distinguished Architect for Cisco's Global Systems Engineering Organization. Stephen currently participates in multiple industry working groups such as the Wi-Fi Alliance where he is currently serving as the Chair for the Security Marketing and Security Technical Task Groups focusing on WPA3 as well as one of the Vice-Chairs for the IEEE 802.11TGbh Working Group (Operation with Randomized and Changing MAC Addresses).

Acknowledgments

They always say it takes a village to raise a child, and the creation of this book is no exception. Having worked in many areas of technology and information security for the last 20 years, the one thing I'm acutely aware of is exactly how much I *don't* know. It's a fool's errand to be the master of all technology in today's world. And while this book was based on my experiences with clients over the past twenty years, the depth of value in this content would not be made possible without the support of the communities.

First, Stephen Orr deserves a special callout; not only did he do exceptional work with the foreword and technical editing; he went above and beyond, helping me research and dig into complex topics, often sifting through lengthy documents to help aggregate data to be included here. As a Distinguished Cisco Engineer and leader of the Wi-Fi Alliance Security Task Group, I knew Stephen would ensure this text was accurate and inclusive and offer balance in many ways including supplementing my knowledge gaps.

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