



Software Defined Networks, Second Edition: A Comprehensive Approach

By Paul Goransson, Chuck Black, Timothy Culver

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Software Defined Networks, Second Edition: A Comprehensive Approach

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Software Defined Networks: A Comprehensive Approach, Second Edition provides in-depth coverage of the technologies collectively known as Software Defined Networking (SDN). The book shows how to explain to business decision-makers the benefits and risks in shifting parts of a network to the SDN model, when to integrate SDN technologies in a network, and how to develop or acquire SDN applications.

In addition, the book emphasizes the parts of the technology that encourage opening up the network, providing treatment for alternative approaches to SDN that expand the definition of SDN as networking vendors adopt traits of SDN to their existing solutions.

Since the first edition was published, the SDN market has matured, and is being gradually integrated and morphed into something more compatible with mainstream networking vendors. This book reflects these changes, with coverage of the OpenDaylight controller and its support for multiple southbound protocols, the Inclusion of NETCONF in discussions on controllers and devices, expanded coverage of NFV, and updated coverage of the latest approved version (1.5.1) of the OpenFlow specification.

- Contains expanded coverage of controllers
- Includes a new chapter on NETCONF and SDN
- Presents expanded coverage of SDN in optical networks
- Provides support materials for use in computer networking courses

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Editorial Review

About the Author

Paul Goransson is Founder and Chairperson of the Elbrys Networks where he currently leads corporate strategy and directs Elbrys' Intellectual Property portfolio. A serial entrepreneur who has led two boot-strap start-up companies through successful acquisitions by industry giants - Qosnetics by Hewlett Packard (1999) and Meetinghouse by Cisco (2006). Paul held senior management positions with Agilent Technology's Advanced Networks Division and Cisco's Wireless Networking Business Unit. Paul co-authored the book "Roaming Securely in 802.11 Networks" as well as numerous articles in technical journals related to computer networking. He is often an invited speaker at technical conferences.

Chuck Black has over 35 years of experience in the field of computer networking, working in research and development labs for Hewlett-Packard for most of that time before becoming co-founder of Tallac Networks, a Software Defined Networking startup. Most recently he has been training engineering staff and customers of major networking vendors in the areas of developing SDN applications. He has been the innovator and creator of multiple networking products for HP in the area of Network Access Control and Security, and holds eleven patents in these areas. Prior to this work, he developed products in the field of Network Management for HP's software organization. In the early days of local area networking, he was author of some of the first network topology discovery applications in the industry. Black holds a BS and MS in Computer Science from California Polytechnic State University, San Luis Obispo.

Timothy Culver is a seasoned technology executive and university faculty that has a broad base of experience in engineering, information technology, business development, sales, and marketing. He has been successful and passionate about emerging technologies and has a proven track record in creating, building, and delivering global technology teams. Tim has been involved in 3 start-ups and built businesses spanning 14 countries. As an adjunct faculty at the University of Texas at Dallas, he has created and taught graduate courses in computer science, software engineering, and spearheaded the Software Defined Networking curriculum and program. Prior to joining the University of Texas at Dallas in the 90's, Tim taught computer language and introduction to computer science classes at the Dallas Community College District. Tim has won the U.S. Presidential Volunteer Service Award from 2011 through 2014 for his volunteer activities in the community. This includes a passion for STEM (Science Technology Engineering and Math) education efforts in middle and high schools. He is passionate about promoting these careers to students and serves on the Mentor Advisory Committee for WeTeachScience.org.

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