



# Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining

*Russ White, Jeff (Evgeny) Tantsura*

Download now

[Click here](#) if your download doesn't start automatically

# Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining

*Russ White, Jeff (Evgeny) Tantsura*

**Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining** Russ White, Jeff (Evgeny) Tantsura

**Design your networks to successfully manage their growing complexity**

Network professionals have often been told that today's modern control planes would simplify their networks. The opposite has happened: Technologies like SDN and NFV, although immensely valuable, are exacerbating complexity instead of solving it. *Navigating Network Complexity* is the first comprehensive guide to managing this complexity in both deployment and day-to-day operations.

Russ White and Jeff Tantsura introduce modern complexity theory from the standpoint of the working network engineer, helping you apply it to the practical problems you face every day. Avoiding complex mathematical models, they show how to characterize network complexity, so you can understand it and control it.

The authors examine specific techniques and technologies associated with network control planes, including SDNs, fast reroute, segment routing, service chaining, and cloud computing. They reveal how each of these affects network design and complexity and help you anticipate causes of failure in highly complex systems.

Next, they turn to modern control planes, examining the fundamental operating principles of SDNs, such as OpenFlow and I2RS, network and other service function virtualization, content distribution networks, Layer 2 fabrics, and service chaining solutions. You'll learn how each of these might both resolve and increase complexity in network design and operations and what you can do about it.

## **Coverage includes:**

- Defining complexity, understanding its components, and measuring it
- Mastering a straightforward "state, speed, and surface" model for analyzing complexity
- Controlling complexity in design, deployment, operations, protocols, and programmable networks
- Understanding how complex network systems begin to fail and how to prevent failure
- Recognizing complexity tradeoffs in service virtualization and service chaining
- Managing new challenges of complexity in virtualized and cloud environments
- Learning why constructs such as hierarchical design, aggregation, and protocol layering work and when they work best
- Choosing the right models to contain complexity as your network changes

From start to finish, *Navigating Network Complexity* helps you assess the true impact of new network technologies, so they can capture more value with fewer problems.

 [Download Navigating Network Complexity: Next-generation rou ...pdf](#)

 [Read Online Navigating Network Complexity: Next-generation r ...pdf](#)

**Download and Read Free Online Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining Russ White, Jeff (Evgeny) Tantsura**

---

**From reader reviews:**

**Ernie Swisher:**

The book Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining gives you the sense of being enjoy for your spare time. You can utilize to make your capable considerably more increase. Book can to get your best friend when you getting anxiety or having big problem together with your subject. If you can make reading a book Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining to get your habit, you can get more advantages, like add your current capable, increase your knowledge about a few or all subjects. You are able to know everything if you like start and read a reserve Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining. Kinds of book are a lot of. It means that, science guide or encyclopedia or other folks. So , how do you think about this e-book?

**Nicolas Olsen:**

This Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining book is not really ordinary book, you have after that it the world is in your hands. The benefit you receive by reading this book is actually information inside this e-book incredible fresh, you will get details which is getting deeper you read a lot of information you will get. This particular Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining without we recognize teach the one who reading through it become critical in contemplating and analyzing. Don't be worry Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining can bring once you are and not make your tote space or bookshelves' come to be full because you can have it in the lovely laptop even mobile phone. This Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining having very good arrangement in word along with layout, so you will not experience uninterested in reading.

**Michelle Morrow:**

Are you kind of hectic person, only have 10 as well as 15 minute in your day time to upgrading your mind talent or thinking skill also analytical thinking? Then you are receiving problem with the book in comparison with can satisfy your limited time to read it because this all time you only find book that need more time to be read. Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining can be your answer because it can be read by you actually who have those short time problems.

**Robert Long:**

Reserve is one of source of information. We can add our information from it. Not only for students but also native or citizen want book to know the up-date information of year to be able to year. As we know those guides have many advantages. Beside many of us add our knowledge, can bring us to around the world. By

book Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining we can get more advantage. Don't you to definitely be creative people? For being creative person must prefer to read a book. Just choose the best book that acceptable with your aim. Don't become doubt to change your life with that book Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining. You can more pleasing than now.

**Download and Read Online Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining Russ White, Jeff (Evgeny) Tantsura #46PYMVOCGU7**

## **Read Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining by Russ White, Jeff (Evgeny) Tantsura for online ebook**

Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining by Russ White, Jeff (Evgeny) Tantsura Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining by Russ White, Jeff (Evgeny) Tantsura books to read online.

## **Online Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining by Russ White, Jeff (Evgeny) Tantsura ebook PDF download**

**Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining by Russ White, Jeff (Evgeny) Tantsura Doc**

**Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining by Russ White, Jeff (Evgeny) Tantsura Mobipocket**

**Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining by Russ White, Jeff (Evgeny) Tantsura EPub**