



# Automating Junos Administration: Doing More with Less

By Jonathan Looney, Stacy Smith

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How can you grow and maintain a reliable, flexible, and cost-efficient network in the face of ever-increasing demands? With this practical guide, network engineers will learn how to program Juniper network devices to perform day-to-day tasks, using the automation features of the Junos OS.

Junos supports several automation tools that provide powerful solutions to common network automation tasks. Authors Jonathan Looney and Stacy Smith, senior testing engineers at Juniper, will help you determine which tools work best for your particular network requirements. If you have experience with Junos, this book will show you how automation can make a big difference in the operation of your existing network.

- Manage Junos software with remote procedure calls and a RESTful API
- Represent devices as Python objects and manage them with Python's PyEZ package
- Customize Junos software to detect and block commits that violate your network standards
- Develop custom CLI commands to present information the way you want
- Program Junos software to automatically respond to network events
- Rapidly deploy new Junos devices into your network with ZTP and Netconify tools
- Learn how to use Ansible or Puppet to manage Junos software

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### **Editorial Review**

#### About the Author

Jonathan Looney (JNCIE-SP #254, JNCIE-ER #2, JNCIE-SEC #43, CCIE Routing & Switching #7797 [Emeritus]), is a senior testing engineer with Juniper Networks. He has managed and automated networks. He has also written tools to automate testing and debugging. He has written training courses for Juniper Networks and also taught an information security course at Syracuse University for several semesters. At Juniper, he currently focuses on testing the Junos kernel and UI features, and conducts product security testing.

Stacy Smith is a senior testing engineer with Juniper Networks. He has over 20 years of experience developing network automation for enterprise and service provider networks, as well as automating internal testing of new Junos features at Juniper Networks. His experience with Junos dates back to version 3.1 with one of the first customers to deploy Juniper's first product, the M40 router. He holds a B.S. degree in Computer Science from the United States Air Force Academy and is certified with Juniper Networks as JNCIE-SP #4 and JNCIE-ER #4.

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