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Today, the best way to stay in control of your network is to address devices programmatically and automate network interactions. In this book, Cisco experts Ryan Tischer and Jason Gooley show you how to do just that. You ' ll learn how to use programmability and automation to

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book was designed with the focus on utilizing Cisco ACI Cisco Nexus 9000, Cisco UCS Director, Cisco (JSON), Python, Linux, Cisco APIC-EM, ConfD, and Data Models in a production environment as effectively as possible.

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You ' ll learn how to use
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models. Next, they introduce software development tools, use cases, and examples for programming the Nexus 9000 and other Cisco data center network platforms.

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the Data Center, Campus, and WAN" by Ryan Tischer and Jason Gooley and published by Cisco Press. Network programmability is a set of tools to deploy, manage, and troubleshoot a network device. A programmability-enabled network is driven by intelligent ...

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Traditional approaches to network management can't handle soaring network complexity. In the future, the best way to stay in control of your networks will be to program and

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Automate them. Programming and Automating Cisco Networks introduces powerful new Cisco technologies for doing just that. CCIEs Ryan Tischer and Jason Gooley begin by showing how network automation and programmability can bridge gaps in network management arising from

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modern operational models. Next, they introduce software development tools, use cases, and examples for programming the Nexus 9000 and other Cisco data center network platforms. You'll find detailed coverage of programmability for Cisco campus and WAN products,

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including the use of NetConf/Yang, ConfD, and Cisco SDN controller for managing complex WAN environments. Tischer and Gooley then introduce Cisco's self-service catalog, Prime Services, and techniques for orchestrating multiple automation solutions to deliver

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applications, using Cisco Process Orchestrator. They conclude with links and references for extending your network automation skills via online communities and open source projects.

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during the automation process How Ansible, Salt, and StackStorm open source automation tools can be used to automate network devices Key tools and technologies required for a Continuous Integration (CI) pipeline in network operations

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Today, networks must evolve and scale faster than ever. You can't manage everything by hand anymore: You need to automate relentlessly. YANG, along with the NETCONF, RESTCONF, or gRPC/gNMI protocols, is the most practical solution, but most implementers

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have had to learn by trial and error. Now, Network Programmability with YANG gives you complete and reliable guidance for unlocking the full power of network automation using model-driven APIs and protocols. Authored by three YANG pioneers, this plain-spoken book

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guides you through successfully applying software practices based on YANG data models. The authors focus on the network operations layer, emphasizing model-driven APIs, and underlying transports. Whether you 're a network operator, DevOps engineer, software developer,

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orchestrating engineer, NMS/OSS architect, service engineer, or manager, this guide can help you dramatically improve value, agility, and manageability throughout your network. Discover the value of implementing YANG and Data Model-Driven Management in your network

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implementation, device integration,
and operation Leverage the
authors' experience to design
successful YANG models and avoid
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developers. In Mastering Python
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ready for the next-generation of
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will be useful.

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Direct from Cisco, this comprehensive

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professionals through all aspects of
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operating Cisco Software Defined
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