

1. Record Nr.	UNINA990000051240403321
Autore	Martelli, Nemes
Titolo	La pratica dell'ingegnere : ossia compendio di tutti i precetti teorici e dati pratici per gl'ingegneri, architetti,periti in costruzione e misuratori, industriali : con aggiunta di molti articoli del codice civile e della tariffa degli onorari per gli atti giudiziari in materia civile / Nemes Martelli , Torquato Ciofi
Pubbl/distr/stampa	Firenze : Bencini, 1872
Descrizione fisica	VIII, 477 p. : ill. ; 19 cm
Disciplina	620.002
Locazione	FINBC
Collocazione	13 AR 13 B 10
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910145281203321
Autore	Jacquet Christian
Titolo	Service automation and dynamic provisioning techniques in IP/MPLS environments // Christian Jacquet, Gilles Bourdon and Mohamed Boucadair
Pubbl/distr/stampa	Hoboken, New Jersey : , : J. Wiley & Sons, , c2008 [Piscataway, New Jersey] : , : IEEE Xplore, , [2008]
ISBN	1-281-31807-8 9786611318079 0-470-03514-5 0-470-03515-3
Descrizione fisica	1 online resource (348 p.)
Collana	Wiley series on communications networking & distributed systems ; ; 18 Wiley series in communications networking & distributed systems.
Altri autori (Persone)	BourdonGilles BoucadairMohamed
Disciplina	004.6/2 004.62 621.38
Soggetti	MPLS standard TCP/IP (Computer network protocol)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Introduction -- PART I - ARCHITECTURES AND PROTOCOLS FOR SERVICE AUTOMATION AND APPLICATION EXAMPLES OF SERVICE AUTOMATION AND DYNAMIC RESOURCE PROVISIONING TECHNIQUES -- 2 What is a policy? -- 3 The Radius Protocol and its Extensions -- 4 The Diameter Protocol -- 5 The Common Open Policy Service (COPS) Protocol -- 6 NETCONF -- 7 Control and Provisioning of Wireless Access Points (CAPWAP) -- PART II - DYNAMIC RESOURCE PROVISIONING TECHNIQUES -- 8 Dynamic Enforcement of QoS Policies -- 9 Dynamic Enforcement of IP Traffic Engineering Policies in IP/MPLS Infrastructures -- 10 Automated Production of BGP/MPLS-Based VPN Networks -- 11 Dynamic Enforcement of Security Policies in IP/MPLS Environments -- 12 Future Challenges -- Appendices -- A

XML Schema for NETCONF RPCS and Operations -- B XML Schema for NETCONF Notifications -- C Example of an IP Traffic Engineering Policy Information Base (IP TE PIB) -- D Example of an IP TE Accounting PIB -- E Description of Classes of an IP VPN Information Model -- Index

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## Sommario/riassunto

Save time & resources with this comprehensive guide to automation configuration for the value-added IP services of the future. As the Internet becomes the medium of choice for value-added IP service offerings such as TV broadcasting, videoconferencing, and Voice over IP, the ability of automating configuration processes has become a key challenge for service providers. In fact, this feature has become crucial with the ever-growing level of expertise required to deploy such services and the scope of the techniques that need to be activated in order to provide such services with a guaranteed level of quality.

Service Automation and Dynamic Provisioning Techniques in IP/MPLS Environments: \*Discusses architectures and protocols for services information, covering the state-of-the-art in current implementations of Remote Authentication Dial-In User Service (RADIUS), Diameter, Common Open Policy Service (COPS), Simple Network Management Protocol (SNMP) and NETCONF \*Explains various application examples, covering the dynamic enforcement of QoS, security, and IP Traffic Engineering policies. \*Covers the automated production of MPLS-based VPNs. The authors offer an invaluable guide for IT facilitators, network managers, and researchers in industry and academia, as well as students studying advanced IP/MPLS networking communications courses. System designers and architects will also find this book helpful.

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