



Cisco Unified Communications Operating System Administration Guide

Release 5.0(4)

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Text Part Number: OL-10062-01



Cisco Unified Communications Operating System Administration Guide

Josh Finke, Dennis Hartmann



Cisco Unified Communications Operating System Administration Guide:

Practical Cisco Unified Communications Security Brett Hall, Nik Smith, 2020-12-04 Master the foundations of modern Cisco Unified Communications UC system security This guide helps you build foundational knowledge for securing modern Cisco Unified Communications environments that support voice video messaging and meetings and support different types of real time collaboration capabilities based on mobile remote access and mobile devices based on bring your own device BYOD initiatives Writing for administrators and managers two Cisco collaboration experts bring together methods and insights to illuminate both the why and the how of effective collaboration security Using the proven Explain Demonstrate and Verify methodology they explain each threat demonstrate remediation and show how to confirm correct implementation You ll walk through securing each attack surface in a logical progression across each Cisco UC application domain The authors address key updates to Cisco collaboration architecture including Expressway Cisco Meeting Server encryption enhancements and advanced business to business collaboration You ll find quick reference checklists in each chapter and links to more detail wherever needed Begin by protecting your workforce through basic physical security and life safety techniques Understand how attackers seek to compromise your UC system s network environment and your best countermeasures Maintain security across all UC deployment types n Protect core UC applications by locking down and hardening the core operating system Use encryption to protect media and signaling and enforce secure authentication Secure Cisco Unified Communications Manager Cisco Unity Connection and Cisco Meeting Server Deploy Session Border Controllers to provide security controls for VoIP and video traffic Provide additional protection at the edge of the network Safeguard cloud based and hybrid cloud services Enable organizations to seamlessly and securely connect to cloud UC services Allow remote teleworker users to connect safely to local UC resources *Implementing Cisco Unified Communications Manager* Josh Finke, Dennis Hartmann, 2012 Rev ed of *Implementing Cisco Unified Communications Manager* authorized self study guide Dennis Hartmann Chris Olsen c2008 c2009 **Cisco Unity Fundamentals** Brian Morgan, Moises Gonzalez, 2004-07-06 A comprehensive introduction to deploying configuring and maintaining Cisco Unity Discover the various Cisco Unity integration and deployment solutions as well as the environmental differences between PBX and IP telephony based telephone systems Learn the pitfalls of existing systems integration and how to avoid downtime Maintain a Cisco unified messaging solution by using the book s examples including setups additions message sourcing applications and error reporting Perform the proper installation upgrade and back up of Cisco Unity systems Monitor performance and troubleshoot a Cisco Unity system using the proper tools and utilities that help you ensure high availability Choose the proper Cisco Unity networking features to deliver messages to other voice messaging systems Cisco Unity is the official unified messaging solution for the Cisco Architecture for Voice Video and Integrated Data AVVID and complements the full range of Cisco IP based voice solutions including Cisco CallManager and Cisco Personal Assistant Cisco Unity Fundamentals provides design and administration goals for migrating

from PBX to Cisco IP Telephony as well as working in a mixed PBX Cisco IP Telephony environment You will learn about the transition from the traditional model with separate architectures for voice mail and e mail systems to supporting unified messaging e mail voice and fax messages delivered to a single inbox You will also discover common troubleshooting solutions such as performance monitoring and the importance of data collection for predicting future system requirements Cisco Unity Fundamentals begins by introducing the engineering aspects of Cisco Unity and then moves quickly into the hardware and software platforms Part I focuses on the administration of Cisco Unity describing the features general setup and global settings Part II describes installation and discusses various types of integration with Cisco CallManager and other telephone systems including Session Initiation Protocol SIP proxy Part II also delves into networking with other voice messaging systems After reading Cisco Unity Fundamentals you will understand the system configuration and on going maintenance issues associated with a successful Cisco Unity deployment This book is part of the Cisco Press Fundamentals Series Books in this series introduce networking professionals to new networking technologies covering network topologies example deployment concepts protocols and management techniques Deploying Cisco Unified Presence Luo Houtong,2009-01-05 Install deploy troubleshoot Cisco Unified Presence Server and Cisco Unified Personal Communicator This book covers lots of undocumented tricks and tips and 3rd party tools that are useful for troubleshooting CUPS Presence and instant messagePhone controlLDAP integrationIP Phone MessengerVoiceMaili integrationWeb Conference IntegrationXMPP JabberCSF Client Service FrameworkCUCIMOC Cisco Unified Communication Integration with Microsoft Office CommunicatorMicrosoft Exchange integrationMicrosoft OCS integrationLotus Sametime integration3rd party complianceSee author s blog for more details <http://htluo.blogspot.com>Use coupon SHOWERS to get 10% off Use coupon FREEMAIL305 to save on shipping Offer ends April 30 2010 **CCNA Cisco Certified Network Associate Voice Study Guide (Exams 640-460 & 642-436)** Tom Carpenter,2010-10-30 The Best Fully Integrated Study System Available for Exams 640 460 Networking from a VoIP Perspective Traditional Telephony They Meet Data and Voice Converged Real Time Streaming Protocol H 323 SIP SCCP and MGCP Understanding Cisco Unified Communications Cisco VoIP Hardware and Software Digital Signal Processors Call Manager Express Unified Communications Manager Gateways and Gatekeepers IP to IP Gateways Fax and Modem Over IP Troubleshooting VoIP Problems Securing VoIP Networks CD ROM includes Electronic book for studying on the go CertCam video training Complete MasterExam practice testing engine featuring Two full practice exams Detailed answers with explanations Score Report performance assessment tool With Free Online Registration Bonus downloadable MasterExam practice tests *Configuring Cisco Unified Communications Manager and Unity Connection* David J. Bateman,2011-05-09 The definitive up to date guide to planning configuring and administering Cisco call processing and voice messaging This book brings together all the hands on knowledge you need to successfully configure and administer Cisco s flagship IP voice systems including Cisco Unified Communications Manager CUCM Unity and Unity Connection Fully

updated for the new CUCM Unity and Unity Connection version 8 it presents step by step procedures for every common and complex task that installers integrators and administrators will encounter Long time Cisco voice implementer and instructor David Bateman begins with clear well organized explanations of Cisco Voice over IP technology including its key functions and devices Next he guides you through preparation and deployment including configuring CUCM for maximum performance removing DNS dependencies defining enterprise parameters configuring regions and enforcing security The author presents quick access step by step solutions for dozens of post deployment tasks each with thorough instructions and cross references to prerequisite tasks wherever needed He demonstrates how to integrate features to create more powerful IP voice systems thoroughly introduces Cisco s new management interface and provides extensive coverage of the latest feature enhancements David Bateman is a certified Cisco instructor CCNA and director of curriculum development for Skyline ATS He has 20 years of internetworking experience including more than a decade as a senior LAN WAN engineer in networks serving up to 5 000 users He then ran the business operations of a technical services company while maintaining his existing networking client base David has taught and implemented Cisco voice technologies since 2000 He authored this book s first edition and co authored CCNA Voice Exam Cram Establish a foundation for CUCM configure services set enterprise parameters register devices and more Add gateways and client devices Create dial plans including route patterns route lists route groups CTI route points translation patterns and route filters Configure Class of Service CoS and Call Admission Control Implement IP phone service media resources and Extension Mobility Prepare to deploy Unity Connection verify integration define system parameters and create templates distribution lists and CoS Add import and manage users Make the most of Unity Connection call management from basic auto attendant to advanced routing rules and audio text Integrate legacy voicemail systems Master Unity Connection s key administrative tools and utilities Use time of day routing call queuing and other advanced features This IP communications book is part of the Cisco Press Networking Technology Series IP communications titles from Cisco Press help networking professionals understand voice and IP telephony technologies plan and design converged networks and implement network solutions for increased productivity *Forthcoming Books* Rose Army,2003 Cisco Unity Connection David Schulz,2011-06-17 Cisco Unity Connection The comprehensive guide to Cisco Unity Connection voice messaging system design implementation and troubleshooting David Schulz Cisco Unity Connection presents all the concepts and techniques you need to successfully plan design implement and maintain Cisco Unity Connection voice messaging systems For every stage of the system lifecycle enterprise voice expert David Schulz offers clear explanations practical examples realistic case studies and best practice solutions The author begins by introducing Cisco Unity Connection s core features capabilities and components Next he provides thorough step by step coverage of configuration including users contacts call routing dial plans class of service and templates You will find extensive discussions of user features and access administration and maintenance redundancy and backup and much more Throughout

the author addresses many enhancements introduced in the new Cisco Unity Connection v8 5 software This book concludes with a complete guide to troubleshooting including case studies that identify common deployment challenges and help you build real world problem solving skills

Peterson's Graduate Programs in Business, Education, Health, Information Studies, Law and Social Work Peterson's Guides Staff, Peterson's Guides, Inc, 2006-12 Detailed program listings of accredited graduate programs in the physical sciences math and agricultural sciences

Cisco Unified Communications System Administration V1. 1 Element K Content LLC, 2004-01-01

Cisco Unified Customer Voice Portal Rue Green, 2011-12-16 Cisco Unified Customer Voice Portal Building Unified Contact Centers Rue Green CCIE No 9269 The definitive guide to deploying Cisco Unified Customer Voice Portal IVRs in any contact center environment Thousands of companies are replacing legacy ACD TDM based contact centers with pure IP based unified contact center solutions One of these solutions is quickly earning market leadership Cisco Unified Customer Voice Portal CVP Now one of the leading Cisco CVP experts brings together everything network and telephony professionals need to successfully implement production Interactive Voice Response IVR solutions with CVP architectural guidelines deployment best practices detailed insights for design and sizing and more CCIE Rue Green guides you through designing unified contact centers with CVP and deploying proven infrastructures to support your designs The author first explains CVP s architecture outlining its key advantages and opportunities for integration and illuminating the design challenges it presents Next he guides you through addressing each of these challenges covering all CVP components and tools and offering detailed insights available in no other book Using this book s detailed working configurations and examples you can minimize configuration errors reduce downtime strengthen monitoring and drive maximum value from any CVP based unified call center solution Rue Green CCIE No 9269 Routing Switching and Voice CISSP MCSE MCITP is a Technical Leader for the Customer Collaboration Service Line within Cisco Advanced Services where he focuses on unified contact center architectures and deployment methodologies He currently acts in a delivery architect role for Unified CVP Unified ICM and Cisco Unified Communications Manager for Unified Contact Center Solutions He has spent the last 21 years working within different roles related to the architecture design and implementation of large voice and data networks including several years working with complex contact center solutions Discover CVP s powerful capabilities and advantages Understand how CVP s components fit together into a unified architecture Utilize CVP native components Call Server VXML Server Reporting Server Operations Console Server and Cisco Unified Call Studio Integrate non native components such as IOS devices Unified ICM UCM content load balancers and third party servers Choose the right deployment model for your organization Implement detailed call flows for Standalone Call Director Comprehensive and VRU only deployment models Design Unified CVP for high availability Efficiently deliver media via streaming caching and other techniques Address crucial sizing QoS network latency and security considerations Successfully upgrade from older versions or H 323 platforms Isolate and troubleshoot faults in native and non native CVP

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Implementing Cisco Unified Communications Manager, Part 2 (CIPT2) (Authorized Self-Study Guide) Chris Olsen, 2008-10-09 Authorized Self Study Guide Implementing Cisco Unified Communications Manager Part 2 CIPT2 Foundation learning for CIPT2 exam 642 456 Chris Olsen Implementing Cisco Unified Communications Manager Part 2 CIPT2 is a Cisco authorized self paced learning tool for CCVP foundation learning This book provides you with the knowledge needed to install and configure a Cisco Unified Communications Manager solution in a multisite environment By reading this book you will gain a thorough understanding of how to apply a dial plan for a multisite environment configure survivability for remote sites during WAN failure implement solutions to reduce bandwidth requirements in the IP WAN enable Call Admission Control CAC and automated alternate routing AAR and implement device mobility extension mobility Cisco Unified Mobility and voice security This book focuses on Cisco Unified CallManager Release 6 0 the call routing and signaling component for the Cisco Unified Communications solution It also includes H 323 and Media Gateway Control Protocol MGCP gateway implementation the use of a Cisco Unified Border Element and configuration of Survivable Remote Site Telephony SRST different mobility features and voice security Whether you are preparing for CCVP certification or simply want to gain a better understanding of deploying Cisco Unified Communications Manager in a multisite environment you will benefit from the foundation information presented in this book Implementing Cisco Unified Communications Manager Part 2 CIPT2 is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining Chris Olsen is the president and founder of System Architects Inc a training and consulting firm specializing in Cisco Microsoft and Novell networking IP telephony and information technologies Chris has been teaching and consulting in the networking arena for more than 15 years He currently holds his CCNA CCDA CCNP and CCVP certifications as well as various Microsoft certifications Identify multisite issues and deployment solutions Implement multisite connections Apply dial plans for multisite deployments Examine remote site redundancy options Deploy Cisco Unified Communications Manager Express in SRST mode Implement bandwidth management call admission control CAC and call applications on Cisco IOS gateways Configure device extension mobility and Cisco unified mobility Understand cryptographic fundamentals and PKI Implement security in Cisco Unified Communications Manager This volume is in the Certification Self Study Series offered by Cisco Press Books in this series provide officially developed self study solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations Category Cisco Unified

Communications Manager 6.0 Covers CIPT2 Exam 642 456 *Implementing Cisco Unified Communications Manager, Part 1 (CIPT1) (Authorized Self-Study Guide)* Dennis Hartmann, 2008-06-23 Foundation learning for CIPT1 exam 642 446 Dennis Hartmann CCIE No 15651 Implementing Cisco Unified Communications Manager Part 1 CIPT1 is a Cisco authorized self-paced learning tool for CCVP foundation learning. This book provides the knowledge necessary to install, configure, and deploy a Cisco Unified Communications solution based on Cisco Unified Communications Manager, the call routing and signaling component of the Cisco Unified Communications solution. By reading this book, you will gain an understanding of deploying a Cisco Unified Communications Manager to support single-site, centralized, distributed, and hybrid call processing models. This book focuses on Cisco Unified Communications Manager Release 6.x. You will learn how to install and configure Cisco Unified Communications Manager power over Ethernet switches and gateways using MGCP. You will also learn how to build a scalable dial plan for on-net and off-net calls. The dial plan chapters of the book cover call routing, call coverage, digit manipulation, class of service, and call coverage components. This book will teach you how to implement media resources, LDAP directory integration, and various endpoints, including Skinny Client Control Protocol (SCCP) and Session Initiation Protocol (SIP). Cisco Unified Video Advantage endpoint configuration is covered, in addition to Cisco Unity voice mail integration and basic voice mail box creation. Various user features are discussed, including Presence. Whether you are preparing for CCVP certification or simply want to gain a better understanding of Cisco Unified Communications Manager fundamentals, you will benefit from the foundation information presented in this book. Implementing Cisco Unified Communications Manager Part 1 CIPT1 is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit www.cisco.com/go/authorizedtraining. Dennis J. Hartmann, CCIE No 15651, is a lead Unified Communications instructor at Global Knowledge. Dennis has been working with CallManager since CallManager 2.0. Dennis has various technical certifications: CCIE No 15651, CCVP, CCSI, CCNP, CCIP, and MCSE. Dennis has worked with various Fortune 500 companies, including AT&T, Sprint, Merrill Lynch, KPMG, and Cabletron Systems. Understand Cisco Unified Communications Manager architecture and components. Evaluate Cisco Unified Communications Manager deployment models. Install, upgrade, and administer Cisco Unified Communications Manager. Apply network configuration, NTP, and DHCP configuration options. Configure and manage user accounts. Deploy various Cisco Unified IP Phones. Configure Catalyst switches for power over Ethernet and voice VLAN requirements. Harden IP Phones to mitigate security risks. Configure Media Gateway Control Protocol (MGCP) gateways. Configure dial plans, call routing, and digit manipulation. Deploy various media resources and user features. Integrate Cisco Unity Voicemail with Cisco Unified Communications Manager. Configure video-enabled IP Phones. This volume is in the Certification Self-Study Series offered by Cisco Press. Books in this series provide officially developed self-study solutions to

help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations Category Cisco Unified Communications Manager 6 Covers CIPT1 exam 642 446 65 00 USA 72 00 CAN

Implementing Cisco Collaboration Applications (CAPPS) Foundation Learning Guide (CCNP Collaboration Exam 300-085 CAPPS) Chris Olsen,2015-12-22 Now fully updated for the new Cisco CAPPS 300 085 exam Implementing Cisco Collaboration Applications CAPPS Foundation Learning Guide is your Cisco authorized learning tool for CCNP Collaboration preparation Part of the Cisco Press Foundation Learning Series it teaches advanced skills for designing deploying configuring and troubleshooting Cisco Collaboration and Unified Communications applications devices and networks Author Chris Olsen shows how to effectively use Cisco Unity Connection Cisco Unity Express Cisco Instant Message and Presence Cisco TelePresence Video Communication Server and Cisco TelePresence Management Suite in production environments He begins by introducing the server platforms and overlays that are the basis for all Cisco Unity Connection design and integration Next he presents in depth coverage of a wide range of essential tasks from user configuration to voicemail redundancy configuring Cisco Jabber Mobile to provisioning Cisco Prime Collaboration Each chapter opens with a list of topics that clearly identifies its focus Each chapter ends with a summary of key concepts for quick study as well as review questions to assess and reinforce your understanding Throughout configuration examples and sample verification outputs illustrate critical issues in network operation and troubleshooting Whether you are preparing for the CCNP Collaboration certification exams or you are just interested in learning about how to deploy and operate Cisco collaboration applications you will find this book to be an invaluable resource Shows how to integrate Cisco Unity Connection with Cisco Unified Communications Manager or other PBXs Covers configuring Cisco Unity Connection users templates service classes distribution lists security LDAP dial plans and call management Walks through Unified Messaging single Inbox configuration Shows how to design integrate and configure feature rich branch office messaging solutions with Cisco Unity Express Explains Cisco Unified IM and Presence components design integration deployment and feature configuration Covers Cisco Jabber and Cisco Jabber Mobile configuration Guides you through deploying Cisco Collaboration Systems Applications with Cisco Prime Collaboration Introduces Cisco TelePresence Management Suite Cisco TMS capabilities and scheduling options This book is in the Foundation Learning Guide Series These guides are developed together with Cisco as the only authorized self paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams

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Implementing Cisco Unified Communications Manager Chris Olsen,2008 **Implementing Cisco Unified Communications Manager, Part 2 (CIPT2) Foundation Learning Guide** Chris Olsen,2011-08-01 Implementing Cisco Unified Communications Manager Part 2 CIPT2 Second Edition is a Cisco authorized self paced learning tool for CCNP Voice

foundation learning This book provides you with the knowledge needed to install and configure a Cisco Unified Communications Manager solution in a multisite environment By reading this book you will gain a thorough understanding of how to apply a dial plan for a multisite environment configure survivability for remote sites during WAN failure and implement solutions to reduce bandwidth requirements in the IP WAN This book focuses on Cisco Unified Communications Manager CUCM Release 8 x the call routing and signaling component for the Cisco Unified Communications solution The book has been fully updated and includes new coverage of topics such as Service Advertisement Framework SAF and Call Control Discovery CCD Whether you are preparing for CCNP Voice certification or simply want to gain a better understanding of deploying Cisco Unified Communications Manager in a multisite environment you will benefit from the foundation information presented in this book Implementing Cisco Unified Communications Manager Part 2 CIPT2 Second Edition is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining Chris Olsen CCVP and CCNP along with numerous other Cisco voice specializations Microsoft VMware and Novell certifications has been an independent IT and telephony consultant author and technical editor for more than 15 years He has been a technical trainer for more than 19 years and has taught more than 60 different courses in Cisco Microsoft VMware and Novell For the last seven years he has specialized in Cisco and recently Microsoft Unified Communications along with VMware virtualization and Cisco data center technologies He has done a wide array of IT and telephony consulting for many different companies Identify multisite issues and deployment solutions Implement multisite connections Apply dial plans for multisite deployments Examine remote site redundancy options Implement Survivable Remote Site Telephony SRST and Media Gateway Control Protocol MGCP Fallback Implement CUCM Express in SRST mode Implement bandwidth management and call admission control CAC Configure device and extension mobility Apply Service Advertisement Framework SAF and Call Control Discovery CCD This volume is in the Foundation Learning Guide Series offered by Cisco Press These guides are developed together with Cisco as the only authorized self paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams

Cisco Unity Deployment and Solutions Guide Todd Stone, Jeff Lindborg, Dustin Grant, Steve Olivier, 2004 Annotation A comprehensive guide to understanding how to design install and manage a unified communications solution Gain a thorough understanding of the Cisco Unity systems with guidance from three of its chief architects Master the application of Unity features to solve legacy and convergence problems Select from comprehensive solutions for Unity to effectively manage your Cisco Unity installations As an integral part of the Cisco AVVID Architecture for Voice Video and Integrated Data environment Cisco Unity complements the full range of Cisco IP based voice solutions including Cisco CallManager Cisco IP

Contact Center and Cisco Personal Assistant Cisco Unity is designed for large or small enterprises and offers enhanced security reliability and serviceability along with support for Microsoft Windows 2000 Advanced Server SP2 and Microsoft Exchange 2000 Enterprise Server Cisco Unity Deployment and Solutions Guide presents real world deployment examples and shows how to plan install and manage a Cisco unified communications solution Part I focuses on understanding Unity architecture and the different technologies it uses It also provides a comprehensive list of features and explains how they are used Part II focuses on deployment issues and explains the steps necessary to deploy a Unity messaging system in a small or large organization It includes a considerable number of real world examples and case studies for each installation type Part III answers a large number of solutions oriented questions asked by customers on a regular basis but where no documented information is presently available Finally part IV explains everything a Unity Administrator needs to know in order to manage the system and its users Todd Stone is a Unity Customer Solutions Architect for Cisco Systems Jeff Lindborg is the architect and technical lead for the Applications Team for Cisco Unity Steve Olivier is the Unity expert on switch integration Author residences Seattle WA **Nation's Cities** ,1975 **Cisco Unified Communications Manager 8** Tanner Ezell,2012-03-30 This book is written in an easy to read style with a strong emphasis on real world practical examples Step by step explanations are provided for performing important administration tasks If you are Cisco Unified Communications administrators or engineers looking forward for advanced recipes to perform important administration tasks then this is the best guide for you This book assumes familiarity with the basics of Cisco's Unified Communications Manager architecture

Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Cisco Unified Communications Operating System Administration Guide**

In a global inundated with displays and the cacophony of immediate transmission, the profound power and emotional resonance of verbal artistry frequently fade into obscurity, eclipsed by the constant barrage of sound and distractions. However, set within the musical pages of **Cisco Unified Communications Operating System Administration Guide**, a charming function of fictional beauty that pulses with raw thoughts, lies an remarkable journey waiting to be embarked upon. Written with a virtuoso wordsmith, this mesmerizing opus courses readers on a psychological odyssey, gently revealing the latent possible and profound influence stuck within the delicate internet of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is key styles, dissect their captivating writing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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Cisco Unified Communications Operating System Administration Guide Introduction

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