



PacStar[™] 7400 Enterprise Office Solution



The PacStar 7400 is a full-featured, UC (Unified Communications), EoIP (Everything over IP) solution designed for enterprises of up to 30,000 phone users. Comprised of proven, best-of-breed networking and voice/data/video communications equipment in use by thousands of customers, and managed by PacStar IQ-Core Software, the PacStar 7400 brings state-of-the-art solutions under one easy-to-use, software-managed solution.

The PacStar 7400 provides IP-converged services based on the Cisco Unified Communications platform, integrated and tested to rigorous security standards. The system includes IP routing, LAN/switching, VoIP and analog call processing, voice mail, VPN, firewall, wireless LAN, UPS and data backup systems. The system offers support for a wide variety of Cisco IP phones and analog phones.

Designed for enterprises, the PacStar 7400 uses advanced VoIP technologies, yet reduces training and maintenance support services because it is managed by PacStar IQ-Core Software. Originally designed to meet ease-of-use and security requirements for US military communications deployments, IQ-Core Software converts a complex stack of advanced networking equipment into a simple-to-use, secure, reliable, proven solution.

Features

- PacStar IQ-Core Software v3.0 for wizard-based, simplified, and unified system management
- Cisco IP-based, UC services, including IP softswitch, TDM trunking, integrated voice mail, analog voice, conferencing
- Supports up to 30,000 phone users
- MLPP support for handsets and TDM trunks
- Integrates with preset, video and web conferencing
- Extensive management support, including real-time monitoring of UC services, and real-time call quality monitoring, with alerts
- Support for secure analog, ISDN and IP phones
- Highly secure wireless 802.11 options
- Tape backup, UPS and KVM options

PacStar IQ-Core Software

- Integrated system management software providing a simplified, unified, user interface

- Wizards automate key management functions to simplify setup and operation, and to reduce errors
- Reduces training and support requirements
- Enables system management by non-technical users
- Dashboard view of status of devices and phone system, and system events
- Setup and management of users
- Setup and management of phones, call traces, and hotlines
- Views of the call route plan, recent call detail records, calling search spaces, and trunk traffic and performance
- Management of devices, including console access and password changes
- Monitoring of devices, with alerts
- Management of device configurations
- System event logging and reporting
- Efficient remote management protocol
- Award-winning, PDF-based, user documentation
- Context-sensitive, PDF-based Help

Cisco Unified Communications Manager (CUCM) v4.3

- Hosted on high-performance, proven, redundant, Cisco MCS servers
- Runs on MS Windows 2003 Server and MS SQL Server
- Call processing and call control
- Video switching, wideband codec support, encrypted audio and signaling, device mobility
- Call processing server redundancy, with load balancing
- Auto attendant and attendant console
- Call analysis and reporting tools
- Real-time monitoring tools

Cisco Unity 4.2

- Unified messaging and intelligent voice mail including:
 - Integration with Microsoft Outlook or Lotus Domino e-mail clients, including e-mail, voice and fax
 - User self-enrollment and self-management
 - Web access to voice mail

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- Text-to-speech capability for management over the phone
- Localization capability for global language support

Cisco 3800-series Integrated Services Router

- Branch office routing optimized for secure, wire-speed delivery of concurrent data, voice, video, and wireless services
- Includes embedded security processing, high memory capacity, and high-density interfaces that deliver the performance, availability, and reliability – up to T3/E3 rates
- Redundant equipment with high availability configuration
- Supports over 90 existing modules for extended services
- Optional services include:
 - Encryption acceleration
 - On-board voice digital signal processing
 - High density interfaces for a range of wired and wireless connectivity options such as Fast Ethernet, T1/E1, FXO and FXS interfaces

Cisco Catalyst 3750 Switches

- 32-Gbps stack interconnect to enable stackable, resilient routing and switching system
- Up to 48 PoE 10/100 ports
- Integrated security
- Options for 10 Gigabit Ethernet and SFP uplinks
- Advanced QoS, rate limiting ACLs, static and RIP routing
- Advanced high-performance IP routing
- Options for enterprise-class features including hardware-based IP unicast/multicast routing

Cisco Unified IP Phones

- The PacStar 7000-series is compatible with a wide variety of Cisco IP phones offering cost-effective, entry-level functionality, or advanced features such as video, softphones, color screens, and room conferencing models.
- Key available functions include:
 - Voice quality: Comfort-noise generation and voice-activity-detection (VAD) programming on a system basis
 - Multiple-line options in Business Class phones models – up to 8 lines

- on select models
- Support for SCCP and Session Initiation Protocol (SIP)
- Codec support: G.711a, G.711, G.729a, G.729b, and G.729ab audio-compression codecs
- 10/100/1000 BASE-T Ethernet connection through 2 RJ-45 ports, 1 for the LAN connection, the other for connecting a downstream Ethernet device
- Configuration options: Provisioning of network parameters with DHCP
- PoE-compatible with any Cisco inline power-capable switch
- XML-based configuration and application support
- Unicode support for international languages

Cisco Media Convergence Server 7825-I3 (H3 also available)

- Entry-level server platform for hosting unified communications
 - Intel Dual-Core Xeon 3050 2.13-GHz processor with 1066-MHz front side bus (FSB) and 2 MB of Layer 2 cache
 - 2-GB PC2-5300 double-data-rate 2 (DDR2) Error Checking and Correcting (ECC) memory (must be installed in pairs)
 - 2 160-GB cold-swap serial advanced technology attachment (SATA) hard disk drives configured as Redundant Array of Independent Disks (RAID 1)
 - Dual-port Gigabit Ethernet controller (embedded)

Cisco Media Convergence Server 7845-I2 (H2 also available)

- High-availability server platform for hosting unified communications
- Redundant equipment with high-availability configuration
 - Dual Intel 5140 2.33-GHz processors with 4 MB of Layer 2 cache
 - Up to 48-GB PC2-5300 double-data-rate 2 (DDR2) Error Checking and Correcting (AECC) memory
 - Up to 8 146-GB 2.5in hot-swap hard disks (RAID 1)
 - Hot swap 835w power supplies/fans
 - Dual-port Gigabit Ethernet controller (embedded)
 - Extensive serviceability features

Cisco ASA 5520

- Full-featured security appliance with

- firewall, Ipsec and SSL VPN
- VPN throughput up to 225 Mbps
- Firewall/IPS throughput up to 375 Mbps
- Up to 750 Ipsec VPN or SSL VPN peers
- Up to 280,000 concurrent sessions
- Includes up to 4 Gigabit Ethernet ports, 1 Fast Ethernet port, up to 100 VLANs

Aruba Networks Wireless (Optional)

- Aruba Multi-Service Mobility Controller MC-200 Series (Central controller)
 - Support for up to 6 access points and 100 users
 - Identity-based security with role-based access control policies
 - 1 Gigabit Ethernet port
 - Extensive security features, including rogue AP (Access Point) detection and containment, and DoS protection
 - Converged voice and data support, including extensive VoIP support such as Cisco SCCP and SIP protocols, QoS, bandwidth controls, and CAC
- AP 60 – Series WLAN access points including:
 - 802.11 a/b/g support
 - 2.4-2.5 Ghz and 5 Ghz RF spectrum
 - Dual-band antennas
 - Wireless intrusion detection
 - Dual 100/1000 PoE interfaces
 - Extensive mounting options
 - Multiple access security methods
 - Designed for central management via the Aruba Mobility Controller

Additional Equipment

- PacStar can provide extensive additional equipment tailored to meet your requirements. Typical configurations include:
- ATEN KL1508 17" LCD/KVM – integrated KVM and KVM switch. Includes dual rail slide system. Highly tested by PacStar, and may be configured to meet DoD security requirements
 - APC UPS and rack/enclosure solutions – custom configured based on customer runtime and environmental requirements.

Intellectual Property

- Pacific Star Communications, Inc. products are protected by US patent number 7,535,861
- Additional patents pending