



Mobility Services

PRODUCT BRIEF

Avaya Communication Manager

Enabling Intelligent, Highly Available and Open Communications Across Your Enterprise

Business Communications Applications Software will help you capture the benefits of advanced IP Telephony.

To meet the changing needs of your enterprise network, Avaya powers converged infrastructures with the new Avaya Communication Manager. With this latest release of telephony software, Avaya delivers industry-leading intelligent call processing plus features that help improve network security, resiliency and extensibility at lower costs. And, it provides a flexible path to highly available converged voice and data networks while protecting your current investments.

Avaya Communication Manager gives you the power to introduce IP telephony when and where it makes the best sense for your business while leveraging your existing Avaya DEFINITY® Communications Servers and Avaya Media Servers.

A New Era of Intelligent Communications

Phone Systems & Data Solutions

Enhancing Business Communications For Over 20 Years

416 398 4448

Avaya has introduced a new era of Intelligent Communications – simplifying and expanding communications so your business can gain strategic value and competitive advantage. Communication Manager offers advanced functionality to help you connect people, processes and applications throughout the extended enterprise and around the globe.

Leadership and Innovation in Communication

Avaya is a global leader and innovator in enterprise communications serving customers that require superior communications technology to power their business. Avaya Business Communications Applications provide intelligent, secure network infrastructures and reliable voice and data applications that help make people more productive, processes more intelligent, and customers more satisfied.

Intelligent Communications

Communication Manager offers advanced functionality to help you connect people, processes and applications throughout the extended enterprise and around the globe.

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Avaya Integrated Management for Avaya Communication Manager Powered Solutions

- Administration
- Avaya Site Administration
- Avaya Voice Announcement Manager
- Avaya MultiSite Administration
- Operation and Monitoring
- Avaya Network
 Management Console
- Avaya VoIP Monitoring Manager
- Avaya Converged Network Analyzer
- Provisioning and Maintenance
- Avaya Software Update Manager
- Avaya Network Configuration Manager
- Avaya Provisioning and Installation Manager
- Network Optimization
- Adaptive Path Controller
- Security
- Secure Access Administration

End-to-end, integrated business communications applications:

Avaya delivers core business communications applications across the enterprise so users are not as dependant on isolated third parties to provide these capabilities. This design results in optimized efficiency through greater stability, consistency, and minimized redundancy.

Presence-enabled communications extended to every device: The entire enterprise can now be presenceenabled versus only a few IP-based devices. The exchange of presence information improves productivity and optimizes communications, reducing the time to complete transactions, and enhancing the quality of the transaction itself.

Unified Access: Avaya offers a superior portfolio of User Agents and Smart Devices for unified communication access, enabling the elimination of redundant, peripheral applications and reducing management costs. End-user productivity can also be increased through consistently available functionality, choice of device and ease of use.

Network Intelligence: Communication Manager optimizes route selection and offers high availability through a unique ability to split signaling and bearer channels in a distributed network over a narrowband, versus broadband, connection. This normalized network access approach eliminates the requirement for an infrastructure upgrade for the realization of a converged communications solution, typically 40%-60% of the total cost of the solution. **Call Routing Intelligence:** The Avaya patented routing intelligence can connect your customers to the correct knowledge worker. In the past this capability had been limited to the contact center environment, however, with the flatness of converged communications, this inherent intelligence is expanding beyond those boundaries; allowing the creation of an ever-increasing level of customer satisfaction and a differentiated, branded customer experience.

Adaptable Communications: Centralized configurations allow easy deployments across your locations and provide you with greater flexibility to accommodate dynamic business models.

Highly Available & Secure

Avaya Communication Manager is designed to meet traditional voice expectations for availability and security. Proactive management, self healing features and end-to-end global services support a high availability infrastructure throughout your extended enterprise for superior communications confidence. High availability is supported in a number of ways including:

Survivable capabilities for the distributed enterprise including branches: The award winning survivability capabilities of Avaya Communication Manager deliver up to six times better performance in minimized downtime, with extremely fast call controller failover time. This level of availability helps to deliver business continuity across the business from edge to edge.

Inter-Gateway Alternate Routing (IGAR): IGAR provides unique monitoring of latency and packet loss with automatic re-route to PSTN for optimal voice quality.

Connection preserving upgrades for duplex servers: This capability provides greater flexibility for customization and changes by allowing uninterrupted communication service during an upgrade of duplex servers from Communication Manager 3.0 to a later release.

Anytime, Any Place and Any Network: Ubiquitous access to resources including IP, PSTN, and Cellular, offers businesses and their customers anywhere, anytime access through virtually any device to key communication resources.

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Self-healing Management for Quality of Service (QoS)

assurance: This on-premise or Managed Service proactive feature provides a unique management capability for applications running on converged networks. It allows you to minimize the risk of deploying business communication applications by significantly increasing the ability to manage the prevention of system failures.

Flexible security choices over multi-vendor networks:

Communication Manager offers "best of breed" security options in a multi-vendor network environment to accommodate ever-changing security needs.

Avaya EXPERT Systems[™] Diagnostic Tools: These tools provide automated, remote resolution of problems, up to 96% of the time, often within minutes. With 30,000 artificial intelligent algorithms, Avaya EXPERT Systems provides self-healing, 24 x 7 support, maximizing availability.

Secure Access and Control: This monitoring solution lets you control access to your network devices, gives you a detailed audit trail, and helps you comply with government regulations for security and privacy. Secure Access and Control lowers your costs by allowing for maintenance of converged infrastructure through a secure IP Virtual Private Network, and provides centralized access for up to 500 monitored servers. The connectivity between your site and the Avaya Remote Technical Center is secure, encrypted, and always connected.

Open Interoperability

Open Interoperability allows communications to be embedded into business processes, and enables more value to enterprises. Communication Manager supports interoperability through an extensive ecosystem of partners providing flexible support for virtually any application on any network through:

End-to-End Standards-based Application Integration:

The Linux based Communication Manager software solution provides integration of old (TSAPI, JTAPI) and new (CSTA, Web) standards. This ability allows you to flexibly embed communications into real-time business processes, while protecting investments.

Full Coverage of Latest SIP Standards: Communication Manager provides an open SIP and H.323 call model, with SIP/SIMPLE presence and instant messaging extensions. Avaya provides full coverage of H.323 support, Open API/SDK. This approach allows seamless integration of voice into other applications and flexibility to integrate third party endpoints, new carrier services and applications.

CSTA-Compliant Web Services Interface: Open, Web Services interfaces for Communication Manager expose the functionality of Communication Manager to an expanding developer and system integrator community. Resulting applications "communications-enable" critical business processes, making it possible for enterprises to create more agile, responsive organizations.

Business Communications Applications Translate Into Business Benefits

The intelligent communications, high availability and security, and interoperability of Avaya Business Communications Applications lead to benefits for your business and the end-users you support. Flexible options enabled by IP Telephony and Communication Manager can keep your people, processes and applications connected in new ways.

Boost End-User Productivity

Avaya Communication Manager enables dynamic call control and full telephony functionality plus the new applications, infrastructure, and communications devices your end users need to:

• Handle incoming calls effectively

The Call Coverage feature automatically redirects calls based on preset criteria such as time of day or type of call; Send All Calls allows users to temporarily redirect all incoming calls to coverage; priority queuing, backup alerting, timed reminders, and attendant vectoring help attendants route calls effectively even in the peak traffic hours; a nightservice console provides you with options in handling incoming callers after normal business hours.

• Increase efficiency

Abbreviated Dialing, Last Number Dialed, and Internal Automatic Answer are simple to use features that can save your enterprise hundreds of hours of call set up and answering time; Integrated Directory gives display telephone access to the system database for one-touch extension dialing; Intelligent Call COMMUNICATIONS AT THE HEART OF BUSINESS

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Avaya Communication Manager Powered Solutions

Business Continuity

- World-Class Routing
- Enterprise Survivable Server
 Local Survivable Processor
- Intergateway Alternate Routing
- Standard Local Survivability

Security

- Advanced Media Encryption (AES, SRTP)
 Access Security Gateway
- Admin Authentication with RADIUS or other AAA server
- Malicious Call Trace
- Class of Restriction

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Routing sends calls along the best and most efficient path based on your rules or the time of day.

• Improve collaboration

Meet Me Conferencing replaces third-party services by providing pre-established bridge numbers; encrypted signal links provide greater security for sensitive conference calls. Group Paging enables speakerphone announcements to preset user groups. Combine Communication Manger, Avaya Converged Communications Server (CCS) software and the Avaya IP Softphone for secure Instant Messaging (IM) with a presence-enabled contact list that can be used to increase access and collaboration.

• Increase mobility

Remote Call Coverage/Forward Off-Net allows users to redirect calls through their office phones to another location; Personal Station Access allows telecommuters to activate their extension and preferences on a shared office phone. EMU provides users the ability to associate the features of their primary telephones to telephones of the same type anywhere within the customer enterprise. Extension to Cellular allows incoming calls to simultaneously ring a user's office phone and mobile phone, providing one-number access for mobile employees. IP Softphone is a Windows-based client applications that transforms an IP network-connected laptop PC into a fully-featured office phone that can be used at home, a client's site or a hotel room.

Improve Contact Center Management

This robust Automatic Call Distribution (ACD) feature set available delivers call routing capabilities for contact centers of any size, from small, single sites to large, sophisticated, multisite deployments.

Scale to Your Current Size and Your Potential

Avaya Communication Manager allows any business to support its operations, simplify management, and significantly reduce total cost of ownership. Running on the powerful Avaya Media Servers and Gateways, Avaya Communication Manager scales effectively from fewer than 100 users to as many as 36,000 on a single system and more than 1 million users on a single network. Even the busiest corporations can get performance that meets their needs, with support for up to 12,000 trunks and up to 540,000 Busy Hour Call Completions (BHCC).

Rely on Your Communications

Avaya Communication Manager utilizes proven Avaya call processing combined with proactive network and application monitoring through Avaya EXPERT Systems and Enterprise Service Platform to provide up to 99.999% reliability in an IP-based voice network. In the event of an emergency, World-Class Routing and Alternate Gatekeeper redirect calls away from trouble. Power Failure Transfer facilitates emergency communications in the event of a total power outage while optional Avaya Uninterrupted Power Supply Units automatically provide alternative in-line power to your system if necessary, and IP Trunk with PSTN fail-over automatically bumps calls to the public telephone network to maintain communications during times of IP network congestion.

Local Survivable Processors (LSP) and Enterprise Survivable Servers (ESS) can be deployed where needed throughout your network to provide increased communications continuity in the event of an emergency. LSPs preserve telephony service in a branch office should the WAN link back to the main server fail. With an ESS in the network, the IP Service Interface card in the port network automatically obtains service from the ESS if the control signal to the main server is lost.

Security features include "challenge and response" login protocol security violation notification and LAN/ WAN voice privacy through real-time media encryption, Malicious Call Trace, Crisis Alert, and E911 compliance help protect your property and employees. Class of Restriction (COR) allows you to set different classes of privileges for making and terminating calls. And Access Security Gateway products help secure, monitor, and control ports used for remote access.

Be Flexible for Migration and Global Business Needs

Avaya Communication Manager lets you create a network that meets your business and budget needs by taking advantage of distributed networking to extend applications to the edge of your enterprise.

- Deliver applications over IP, TDM, ATM, and wireless networks, and leverage existing devices whether they're digital, analog, IP, or wireless.
- Support communications anywhere in the world via a variety of signaling methods including H.323, ISDN-PRI, ISDN-BRI, multi-frequency, and Q.Sig.
- Support stations, port networks, remote offices, and gateways located in multiple countries using a single media server. Parameters that can typically vary by country can be specified for each country/location to enable support of features across national borders.

• Easily integrate third-party applications using open programming interfaces including TAPI, JTAPI, TSAPI, and ASAI. Expanded 13 digit dial plan support greatly reduces dial plan conflicts.

Uphold Your Reputation with Quality of Service (QoS)

Avaya Communication Manager features a highperformance VoIP engine that maintains excellence in voice, video, and data quality. Utilizing industry-standard controls — H.323, H.248, and SIP — the software can provide the highest level of performance for all transmissions, with low latency and delay levels. Your most important communications, and especially voice traffic, are given highest priority by industry-standard QoS protocols including DiffServ, 802.1p/Q, VLAN, and COMMUNICATIONS AT THE HEART OF BUSINESS

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RSVP. And Avaya reporting and system monitoring help ensure service quality.

Improving the End User Experience with Intelligent Clients and Devices

Avaya Communication Manager supports a variety of IP, wireless, digital and analog telephones and several client applications for a number of communications devices. These include;

- The Extension to Cellular feature of Avaya Communication Manager connects callers to mobile employees wherever they are. Extension to Cellular transparently bridges calls to any mobile phone over any wireless carrier network, providing employees with one business number access. Productivity enhancing Communication Manager features like conference calling and call transfer are also extended to mobile phones. The Avaya one-X Mobile client application enhances Extension to Cellular to provide a simple to use interface for accessing Communication Manager features from certain mobile phones.
- The Avaya 9600 Series IP Telephone family has been designed to provide the right phone for the right job and meet the specific communications needs of different workers. Created by users for users, the 9600 series features an intuitive user interface which helps make users proficient and confident in performing common telephone tasks such as setting up a conference call or completing a transfer. With enhanced high-fidelity audio, it's much easier to hear and understand others, which speeds business while reducing fatigue and stress.
- Avaya IP Softphone is a flexible tool for accessing and managing all business telephony communications from any location with Internet access. It can operate on its own as a powerful telephone soft client or it can work with Microsoft Office Communicator to provide integrated telephony and instant messaging presence and enable click to call from an entry in a buddy list, an email, or a

smart tag. Avaya IP Softphone also integrates easily with desktop and group video applications, making videoconferencing as easy as a phone call.

Simplify Network Management

Avaya Integrated Management provides a comprehensive set of tools that make it easier for you to manage complex network infrastructures. The applications in Avaya Integrated Management manage both voice and data communications through a common web-based user interface designed for System Management, Network Management and Application Integration platforms. Avaya Integrated Management can improve network uptime; increase staff productivity and reduce operating costs.

IP Telephony Consulting and Integration Services

Avaya employs a standard, time-proven delivery approach to support every customer implementation for Communication Manager solutions. Avaya Consulting & Integration services ensures you:

- Choose the right solution for your business strategy
- Get the most value from your total IP solution, including existing technology
- Deploy a secure, available and manageable communication environment

Learn More

To learn more about Avaya Communication Manager, Business Communication Applications, and Avaya Global Services, talk to your Avaya Client Executive or Authorized BusinessPartner. Also, visit us at avaya.com/iptelephony.

For more information about Avaya and our other award-winning solutions, visit avaya.com.

COMMUNICATIONS AT THE HEART OF BUSINESS

Avaya Communication Manager Capabilities		
 Employee Productivity Call Coverage Send All Calls 	 Unified Access Related SIP Telephony Support with SIP Enablement Services (SES) 	 Networking Q.Sig Management 13-Digit dial plan
 Send An Cans Priority Queuing Backup Alerting Timed Reminders Attendant Vectoring 	 Avaya 9600 Series IP Telephones Avaya 3600 Series IP Wireless Telephones Avaya IP Softphone 	 T.38 fax over IP Modem over IP
 Abbreviated Dialing Last Number Dialed Internal Automatic Answer Integrated Directory Universal Access—Phone Status 	 Avaya IP Softphone for Windows Mobile 5 Avaya one-X Mobile Avaya one-X Desktop Avaya one-X Speech Avaya one-X Portal 	
 Intelligent Call Routing Multi-party Conferencing (up to 300) Meet-Me Conferencing Group Paging 		
 Remote Call Coverage/Forward Off-Net Personal Station Access Automatic Call Distribution (ACD) Enterprise Mobility User 		

About Avaya

Avaya enables businesses to achieve superior results by designing, building and managing their communications infrastructure and solutions. For over one million businesses worldwide, including more than 90 percent of the FORTUNE 500[®], Avaya embedded solutions help businesses enhance value, improve productivity and create competitive advantage by allowing people to be more productive and create more intelligent processes that satisfy customers. For businesses large and small, Avaya is a world leader in secure, reliable IP telephony systems, communications applications and full life-cycle services. Driving the convergence of embedded voice and data communications with business applications, Avaya is distinguished by its combination of comprehensive, world-class products and services. Avaya helps customers across the globe leverage existing and new networks to achieve superior business results.



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