



**ENSURE FAST AND EASY
DEPLOYMENT OF SECURE,
PORTABLE CONVERGED
COMMUNICATIONS**

3Com® Solutions for Government

FAST, FLEXIBLE AND TRUSTWORTHY EMERGENCY COMMUNICATIONS

Mobile communications are essential for meeting today's military, civil defense and emergency response needs. First responders must rapidly establish on-site command and control centers to coordinate their operations. Contingency missions demand easily transportable communications solutions that are quick to deploy. Short-term networked communications are needed for field offices and temporary sites. Wherever telephony and data services are required quickly—secure, portable networks must be made rapidly available for users to communicate with personnel in the field, headquarters, satellite sites and remote offices, as well as over the Internet. To be effective, these solutions must be:

Portable. Components must be durable and mobile so they can be transported swiftly, easily and safely.

Simple to Deploy and Use. Standards-based solutions are needed to allow set-up without delay or the need for extensive user training.

Secure. The mobile network must ensure the most advanced, yet industry-standard security, to prevent network intrusion, safeguard resources and allow only authorized access.

Converged. To expedite deployment and use, a single infrastructure must deliver both telephony and data communications.

Flexible. Solutions need to integrate wired and wireless local connectivity, and wireless communications must meet Federal Information Processing Standards (FIPS) 140-2.

Affordable. To be practical, any solution has to be economical to own and operate.

As a premier provider of secure, converged networks for businesses and governments worldwide, 3Com offers a complete, fully-integrated, mobile networking solution for mission-critical military, government, civil and business use. The 3Com® Secure, Portable Converged Communications solution delivers temporary communications wherever needed with all the performance and functionality of enterprise-class networks at an accessible cost.

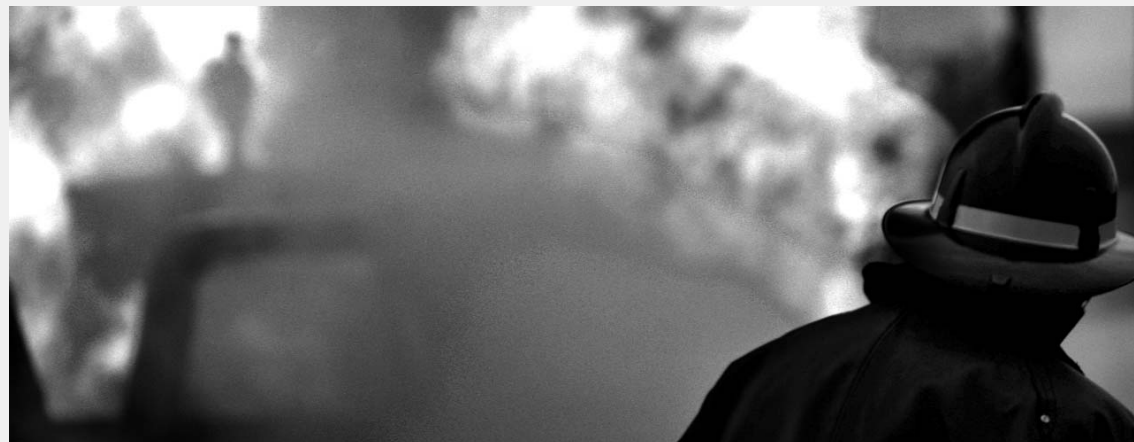
The innovative 3Com solution enables first responders and others to establish high-speed, self-contained, voice-ready IP networks anywhere with exceptional speed and ease. In minutes, users can deliver data, telephony, video and Internet connectivity over wireless or wired links, providing a seamless, strongly-defended command and control infrastructure. The 3Com system flexibly supports an array of client devices, including desktop computers, laptops, handsets, PDAs and fax machines. Moreover, built-in graphical management tools let users remotely control their telephony, data and intrusion prevention services, avoiding the need for on-site administrators.

Implementations can be customized to suit individual communications needs, giving users control over the capabilities they require and the assurance of proven quality, performance and interoperability. Comprehensive protection, including FIPS 140-2 certified wireless security, hardens 3Com solutions against digital attacks or unauthorized intrusions, while critically acclaimed intrusion prevention technologies—the most effective systems available—proactively protect the infrastructure against viruses, worms and other hacker exploits.

NETWORKS FOR MISSION-CRITICAL APPLICATIONS

“With our 3Com solution we established portable global satellite communications in battlefield conditions in less than 10 minutes.”

Sergeant Major Rick Forrest,
United States Marine Corps, Retired



**3Com Awards and
Certifications include:**



**A SYNERGY OF
CUSTOMIZABLE,
PROVEN SOLUTIONS**

KEY SOLUTION ADVANTAGES

Highly Transportable	Portable devices enclosed in simple, hardened cases, become compact, durable and highly mobile solutions able to be deployed rapidly when the need arises
Extremely Secure	Seamless, pervasive, end-to-end protected wired and wireless communications create an impenetrable fortress with the built-in versatility of government-grade network-, user- and device-level security for ensuring proper access to resources
Rapidly Deployed	Designed for fast deployment and tear-down even in unfavorable environments, these portable solutions easily mount on or inside any vehicle or mobile office, requiring a simple power-up procedure to function that lets first responders quickly set up a comprehensive communications center in minutes—in almost any terrain
Easy to Use	Following fast deployment, on-site personnel can quickly and effectively control all networking services without highly-specialized expertise
Proven Reliable	Every component of the 3Com solution delivers industry-leading availability, proven by years of field experience and testing to ensure dependable, mission-critical communications
Flexible	Users have the freedom to migrate from one network to another if a temporary VoIP system is torn down at one facility and replaced by a permanent phone system at another—handsets, phone numbers or extensions remain constant
Fully Integrated	Self-contained, standards-based components for telephony, data and multimedia applications seamlessly interoperate to deliver trouble-free communications on-the-fly
Economical	The 3Com solution is engineered for high-end performance and low-cost operation and ownership, making it ideal for military, security and emergency applications

3Com IP Telephony Platforms

3Com VoIP systems are built for fast deployment and reliable delivery of converged voice and data services over wired or wireless infrastructures, eliminating the complexity of multiple cabling for telephones and computers. Expandable to support up to 1,500 devices, they enhance communications with powerful built-in features like voice mail, automated attendant, hunt/call groups, call detail reporting, computer telephony integration (CTI), PC-based visual voicemail/email clients (IMAP4) and easily implemented optional software for capabilities such as unified messaging. Moreover, the platforms are easily managed, either remotely or locally, and their open, standards-based architecture can support a variety of third-party applications to meet current interoperability requirements and future network and application needs.

3Com IP Phones

3Com offers a portfolio of easy-to-use phones designed for similar deployment flexibility and high-performance. Models include full-duplex speakerphones with Gigabit connectivity and support for either the H.323 or Session Initiation Protocol (SIP) call-control standards—assurance of exceptional voice quality in a variety of communications environments. Their IEEE 802.3af Power over Ethernet (PoE) compliance eliminates the need for electrical cabling to each handset to further streamline network implementations. Because the phones initialize themselves automatically when connected to the network, they are immediately ready to function with the most recent system and user configurations. And where situations require particularly durable devices, rugged and color-coded IP phones are available.

3Com LAN Switching and Routing Solutions

An integrated, core-to-edge switching portfolio delivers converged, high-performance switching to meet a variety of implementation requirements. Award-winning stackable 3Com switches offer 10/100 and Gigabit speeds in a convenient form factor with or without PoE. They provide the bandwidth to support the most sophisticated applications and robust security features such as SNMPv3, SSH and network login to protect access to voice and data resources. Moreover, simplified management tools enable remote administration to ensure optimal performance even in less than ideal environments. Along with 3Com modular switches, they offer advanced functionality without the unavoidable overhead of proprietary solutions.

“We deployed the 3Com Portable Converged Communications solution very quickly and it performed flawlessly. It’s an innovative tool in our arsenal, ideal for contingency missions of all sorts.”

Major John Wheeler,
Deputy G6, 36th Infantry Division,
Texas Division, United States
Army National Guard

Firefighters, healthcare, military and other responders to emergency situations require routers able to support the latest communications technologies. 3Com enterprise routers provide the standards-based architecture needed for interoperability with third-party infrastructures and the built-in features to enable clear, strong voice and multimedia communications. They have been proven to offer better performance at half the cost of other vendor’s systems. Advanced security and access control, hot-swappable interface cards and available redundant power to ensure fault-tolerance and resiliency give emergency workers the continuous, strong communications they need.

3Com Wireless Mobility System

By eliminating the need for cabling to client devices, using 3Com wireless access points and controllers is the fastest and easiest way to establish voice, video and data networking services. They allow enterprise-class services and performance to be established in minutes, using IEEE 802.11g, a, or b standards. Up to 253 users within 100 meters (328 feet) can be supported so that personnel can roam freely among access points while maintaining full communications without interruption. Easy-to-use web-based management tools ensure rapid set-up and comprehensive remote control.

3Com partners with Fortress Technologies to deliver an end-to-end security architecture designed for wireless government networks. Fortress’ industry-leading solutions meet DOD Directive 8100.2 that requires robust encryption, authentication, key management, digital signature and personal identification based on FIPS 140-2. Fortress’ FIPS 140-2-certified systems provide the strongest commercially available wireless security on the market. With comprehensive, layered security at the user, device and network level, they shield the wireless network from every significant external and internal threat.

Working together seamlessly over a standards-based, pervasive security architecture, 3Com and Fortress Technologies components offer the robust protection of encryption, authentication and access control. They encrypt all point-to-point traffic in virtual private networks (VPNs) for communications that are impervious to unauthorized access. They also offer flexible security assignments—administrators can quickly allocate varying access rights to different users so that personnel can access only the information for which they are authorized.

3Com TippingPoint™ Intrusion Prevention System

For even greater levels of security, the 3Com Portable Converged Communications solution offers the 3Com TippingPoint Intrusion Prevention System (IPS), the only intrusion prevention solution to receive the Gold Award from the NSS Group, the world’s foremost independent security testing facility, and Common Criteria certification. As an integral security component, the TippingPoint platform safeguards the entire infrastructure, both wired and wireless networks, against a wide range of network vulnerabilities, including worms, viruses, spyware, denial-of-service attacks and renegade applications. Administrators can manage the system remotely and update its filters as often as daily to counter newly-discovered threats.

The 3Com Secure, Converged, Portable Communications Solution is engineered for:

- › Border control
- › Command and control centers
- › Construction sites
- › Fast response, emergency and recovery situations
- › Fire and police units
- › Military and security forces
- › Mobile medical units
- › News and media events
- › Transportable mobile offices and applications

Visit www.3com.com for more information about 3Com secure converged network solutions.

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