

### Wireless Without Limits<sup>SM</sup>

Northrop Grumman IT is setting the standard for next-generation wireless solutions. MobileShield delivers secure, mobile, broadband IP-based capabilities to meet the growing wireless communications needs of government agencies and commercial enterprises. With over 50 years of experience designing, integrating and operating some of the world's most complex communication systems, no other organization is better positioned to provide the expertise, impartiality and initiative to enhance America's mobile networks. To learn more about MobileShield and visit our secure wireless demonstration facility, please send inquiries to [MobileShield@ngc.com](mailto:MobileShield@ngc.com) or call 703.818.7400.

### When America Needs Trusted IT Solutions, We're There

Northrop Grumman Information Technology, based in Herndon, VA, is a trusted IT leader and premier provider of advanced IT solutions, engineering and business services for government and commercial clients. The company's expertise spans such areas as information systems integration; information technology security; command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR); homeland security; enterprise hardware and software solutions; training and simulation; base and range support; signals intelligence; health informatics; space systems; and specialized scientific, engineering and technical services.

## MobileShield.

You won't believe what you can accomplish in a world without wires.



[www.it.northropgrumman.com/ITSolutions](http://www.it.northropgrumman.com/ITSolutions)

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## Wireless Without Limits

# MobileShield<sup>TM</sup>

Consumer use of wireless technologies has skyrocketed during the past decade. Unfortunately, full adoption of wireless technologies by the public sector and commercial enterprises has been restricted by three factors: security limitations, broadband mobility challenges and interoperability obstacles.

MobileShield, the secure wireless solution from Northrop Grumman Information Technology (IT), solves these historical challenges. MobileShield delivers fully secure, high-speed, Internet Protocol (IP) based wireless solutions that enable the convergence of data, voice and video onto one network. It also ensures full interoperability across disparate communications systems. With MobileShield, wireless is virtually limitless.

**MobileShield costs approximately 35% less than conventional networks.**

### MobileShield In-Depth

As the largest, most experienced federal information systems integrator and provider of highly secure wired networks, Northrop Grumman IT is uniquely positioned to deliver a solution that will revolutionize wireless communications. MobileShield provides the three critical elements of a comprehensive wireless solution:

- Broadband Mobility
- Interoperability
- End-to-End Security

MobileShield delivers tangible solutions for real-world communications challenges:

- Vastly improves the capacity of mobile wireless devices accommodating new bandwidth-intensive applications, faster current application performance, and significant increases in the number of simultaneous users a system can support.
- Promotes complete interoperability between wired and wireless voice and data systems, simplifying information sharing and collaboration.
- Provides security features – end-to-end physical and cyber security – that are unmatched, especially by traditional cellular operators.
- Converges voice, data and video traffic onto one network, resulting in resource savings and network management efficiencies.

Trusted IT Solutions



# MobileShield Total Security

*Typical MobileShield deployments yield data transport speeds 10-15 times faster than digital cellular wireless systems*

At Northrop Grumman IT, we believe wireless communications systems cannot be secure until we have evaluated the overall security posture of an organization—security policy, cyber security, physical security, personnel security and operational security. This 360° approach to security is based on our delivery of cyber and physical security solutions for some of the intelligence and defense communities' most secure communications systems. Our experience as the #1 provider of security solutions to the federal government<sup>1</sup> is the foundation of the MobileShield design.

MobileShield protects people, data and infrastructure with its array of security features:

- Multi-level Advanced Encryption Standards or Digital Encryption Standards (*future implementation of Type 1 NSA standards*)
- User Authentication
- Encryption Key Management

- Firewall Deployment and Management
- Prevention of “Denial-of Service” Attacks and Viruses
- Physical and Cyber Intrusion Detection, Prevention, Tracking

Confident that access to sensitive wireless networks meets the same high security standards as the wired domain, MobileShield customers can move new and previously office-bound applications directly into the hands of deployed personnel. Now, secure wireless has practically no limits.

## The MobileShield Solution

From homeland security to law enforcement, transportation and commerce, MobileShield delivers a comprehensive wireless solution that can dramatically enhance communications capabilities. Whether handling routine business or managing a crisis, organizations can rely on MobileShield for reliable, fully redundant, instant, continuous communication systems. MobileShield solves many of today's wireless challenges.

## Law Enforcement – Mobile, High-Speed Information

Effective law enforcement requires “anytime, anyplace” access to federal, state and local government databases. Specifically, field personnel need immediate, bandwidth-intensive information such as license and vehicle registration details, felony warrant data, and fingerprint biometrics in an ultra-secure environment, with full mobility. With MobileShield, law enforcement personnel can exchange secure information “on the move” via handheld and wearable devices, tablet PCs, and laptops.

## Airport – Physical Security

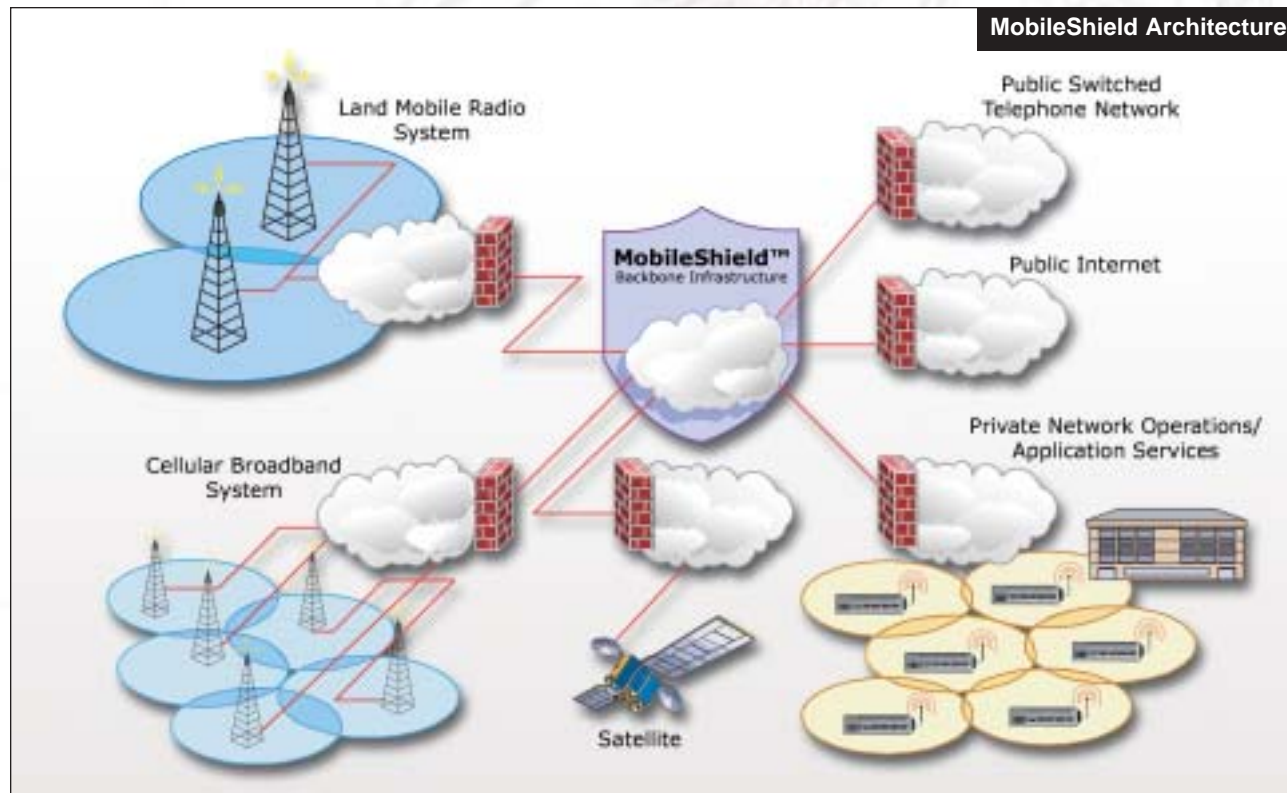
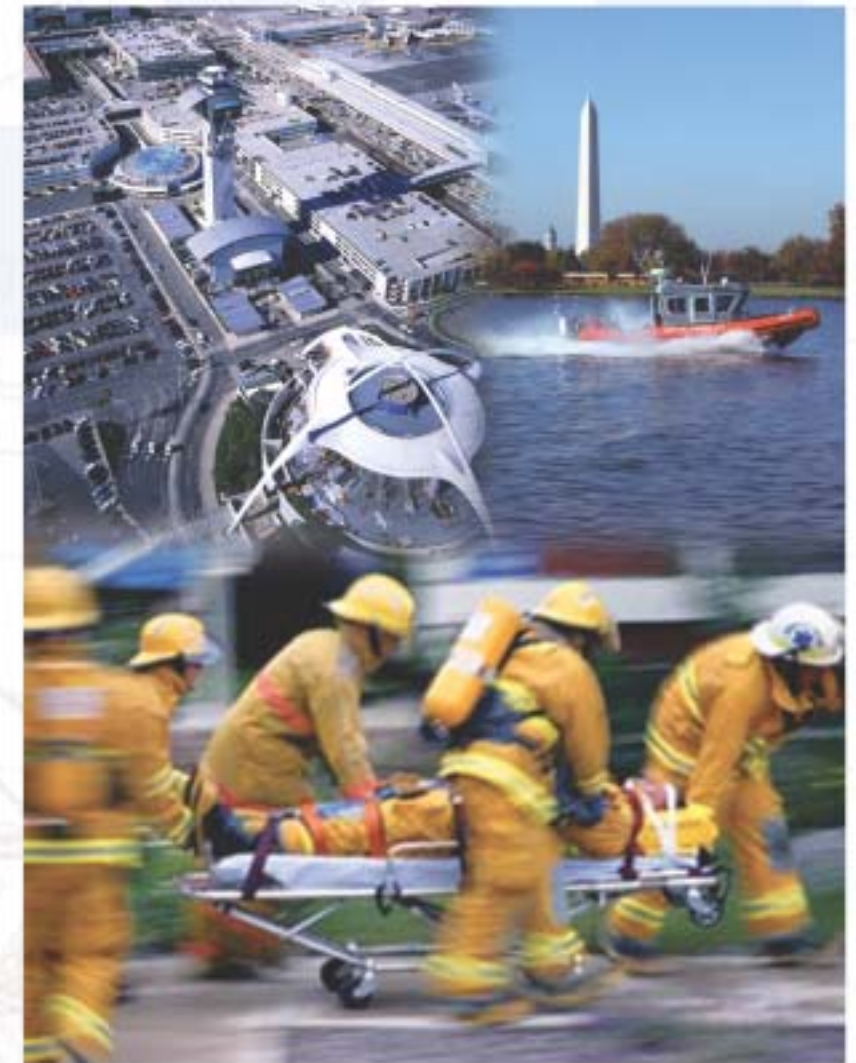
Today's airports use video surveillance technology to identify safety threats. MobileShield is the wireless communications system with the capacity to disseminate live video surveillance data across multiple organizations, via their native communication systems. Airport and security personnel can access real-time information across the airport campus, enhancing information sharing and improving security coordination.

## First Responder – Interoperable Voice Communications

Emergency first responders require interoperability between disparate land mobile radio (LMR) systems in order to communicate critical incident information and to ensure collaboration between agencies and jurisdictions. The MobileShield solution enables traditional, analog LMR systems to interconnect and supports the deployment of next-generation IP-LMR systems. The MobileShield solution also allows interoperability between LMR and cellular systems and increases the number of simultaneous users that can be supported by a wireless communications network. This interoperability improves mutual aid and public safety response.

## Enterprise – Secure Network Deployment

Enterprises interested in modifying or diversifying their existing campus-wide communications infrastructure should consider a MobileShield solution as an alternative to traditional wired networks. MobileShield is delivered at a cost savings compared with many wired networks, while offering comparable security options including multi-level encryption, user authentication, firewall management and cyber intrusion detection.



*The MobileShield architecture enables the convergence of data and voice networks resulting in seamless interoperability and efficient network operations.*

## Access MobileShield Key Features

**IP-based, Open Architecture** – common network platform ensures long-term interoperability and broadens range of device manufacturer and application developer options; results in reduced infrastructure cost and total cost of ownership.

**Unbiased Engineering** – provides vendor-neutral approach to system design; ensures access to broad range of technologies.

**Security** – offers fully customizable physical and cyber security features; addresses and combats all known and evolving security threats.

**Broadband** – supports real-time access to bandwidth-intensive wireless applications; provides low latency and highly reliable communications.

**Mobility** – enables functionality “on the move,” facilitating seamless wireless communications anywhere within the network footprint; resulting in improvements in workplace efficiency.

**Scalability** – promotes simple migration path from legacy systems; eases expansion due to open architecture design.

<sup>1</sup> Input, Inc.