

Building a smarter military base

How network modernization can help boost security, efficiency and morale



There is no question that digital technologies can help military bases work smarter. New technology can help make processes more efficient, provide tighter security, enable more lifelike training and provide better internet connectivity for civilian partners and military families.

However, insufficient funding, cybersecurity concerns and a shortage of technical skills can make it hard for some bases to fully take advantage of new technology. Legacy public and private network infrastructure, technologies approved for base use by the Department of Defense, and other obstacles can also slow “smart-base” progress.

Bases may be able to overcome many of these issues by working with the right technology partner. As a holistic technology solution provider that has a long history of partnerships with and commitment to the Department of Defense, Verizon can support you with a robust portfolio of services and solutions, including a custom-designed private or commercial 5G network or fixed wireless access connectivity that has the range and scale to match today’s needs and adapt quickly to emerging capabilities.

8 use cases for smart-base technology

Transformative digital technology can help you bolster security and operate more efficiently and effectively. Our advanced wireless technologies can also support utility monitoring for fire panels, water consumption, and electricity usage. Here are a few of the most promising smart-base use cases:



Training

Military bases run some of the best training and educational facilities in the country. Digital technologies can help improve access to this training, often eliminating the need for travel. Augmented and virtual reality can help make instruction more lifelike by putting trainees into virtual simulations to practice what they’re learning.



Automation and force-multiplier applications

These applications can help maximize efficiency by automating your basic processes and procedures. Internet of Things (IoT) sensors and connectivity and—in more advanced use cases—robotics can free human resources for more important and demanding activities. Managed IT services can also be an important force multiplier by allowing your limited IT personnel to focus on other mission-critical activities.



Base and perimeter security

Connected devices can help automate critical elements of base security. For instance, cameras and sensors in remote areas can help detect and stop intruders, and foreign object detection can help keep high-traffic or sensitive areas, such as runways, safe. You can also help make security processes more efficient with automated access control at gates and intelligent detection systems to quickly send alerts about incidents on base and optimize your response.



Backup network

We can help your base stay operational and connected by providing a secondary backup connection with the help of our powerful 5G network. The increased bandwidth possibilities of our 5G network can even make it work as your primary connection. Depending on the bandwidth and data needs of your base, you could also use our 4G network as a backup connectivity option.

Verizon understands the unique needs of the Department of Defense and can help address them with a robust portfolio of highly secure services and solutions.

**Supply chain management**

IoT sensors can pinpoint where base resources, such as trucks, ships or other equipment, are at all times. They can also identify where maintenance is needed to more accurately allocate labor. Advanced technologies, such as augmented and virtual reality, can support an effective maintenance workforce by enhancing workers' repair skills.

**Base morale and welfare**

Maintaining a high quality of life for base personnel, families and other civilian support staff members is essential for base morale and welfare. We can help you upgrade your network infrastructure by putting the appropriate security protocols in place. This can go a long way toward helping enrich the lives of civilians and military families living or working on the base by providing better connectivity for commissaries and other communal areas as well as increased access to cultural activities and remote job opportunities.

**Public safety and health care**

Better connectivity can enhance communication support for fire, police and emergency medical technician personnel on base, giving them an edge when every second counts. In addition, it can enable access to a broader range of health-care services and specialties through telehealth. This can be an especially important benefit in remote locations. Wearables and other health sensors can be used to monitor the health of personnel during training activities to help minimize risk and improve outcomes.

**Research and development**

To take the smart-base concept to the next level, we can bring new labs online with the implementation of state-of-the-art IoT sensors to monitor and control different types of testing environments, including medical and biological research labs and destructive testing and innovation labs, enabling us to help you enhance connectivity across your installations from the ground up or after you have finished construction.

Why Verizon?**Secure network connectivity**

We have built and now manage America's most reliable 5G network.¹ With expertise in public and private networks and with multi-access edge computing (MEC), we can help you design and implement the right connectivity solutions for your needs, from highly secure private networks for mission-critical activities to broader connectivity to improve base life. Our expertise in security is especially critical for military bases, and Verizon private wireless network and fixed wireless access solutions can help you modernize your connections.

Managed and consultative services

Our experts can help you better understand your options, from technical implementation to process management, so you can arrive at custom plans that work well for your base. Our managed technical services can augment your IT resources, unlocking new capabilities previously unavailable or allowing you to reallocate your essential IT personnel to other mission-critical tasks.

A long history of commitment to the military

Verizon has a long history of supporting military bases, the Department of Defense and the public sector, which gives us unique insight into your specific needs. Part of this commitment comes down to our shared determination to run toward a crisis, not away—as seen in our disaster response team and our support for first responders, including firefighters, the police force and the military. We have more than 10,000 veterans currently employed at Verizon and have been in the top 10 in the Military Friendly company rankings for the past five years, including three consecutive years at the top,² so you know you're getting support not just from technology experts but from people who understand how they can best help and support you.

Learn more

Find out more about our smart-base solutions and digital transformation capabilities for the military at [verizon.com/defense](https://www.verizon.com/defense).



1. Most reliable 5G network based on more first place rankings in RootMetrics® 5G data reliability assessments of 125 metro markets conducted in 1H 2022. Tested with best commercially available smartphones on three national mobile networks across all available network types. Your experiences may vary. RootMetrics rankings are not an endorsement of Verizon.

2. "2023 Military Friendly® companies." Military Friendly. 2023. <https://www.militaryfriendly.com/2023mfcr>
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