

Construction Connectivity & IT Infrastructure **Playbook**



Successful projects are built on a foundation of **reliable IT.**

The “one-size-fits-all” approach doesn’t work when choosing IT infrastructure services intended to keep construction and engineering operations ahead of the competition. Having the right combination can be a competitive differentiator, but it’s important to choose wisely. With so many options, analysis paralysis can set in fast.

Let the nature and purpose of your business be your guide.

There’s one thing successful organizations all have in common: a winning technology game plan focused on connectivity, cybersecurity, voice, cloud, and colocation. We created this playbook to help you sort through the noise.





A Winning Technology Lineup

Choosing the right IT foundation for your business is critical. Given the high stakes, it can also be intimidating. There are many options to build your foundation across four key domains:

THE PLAYING FIELD



CONNECTIVITY

The foundational network elements used to connect field teams, job sites and office operations for seamless project coordination.



CYBERSECURITY

Robust security solutions to protect sensitive data and critical systems from accidental exposure or malicious exploitation.



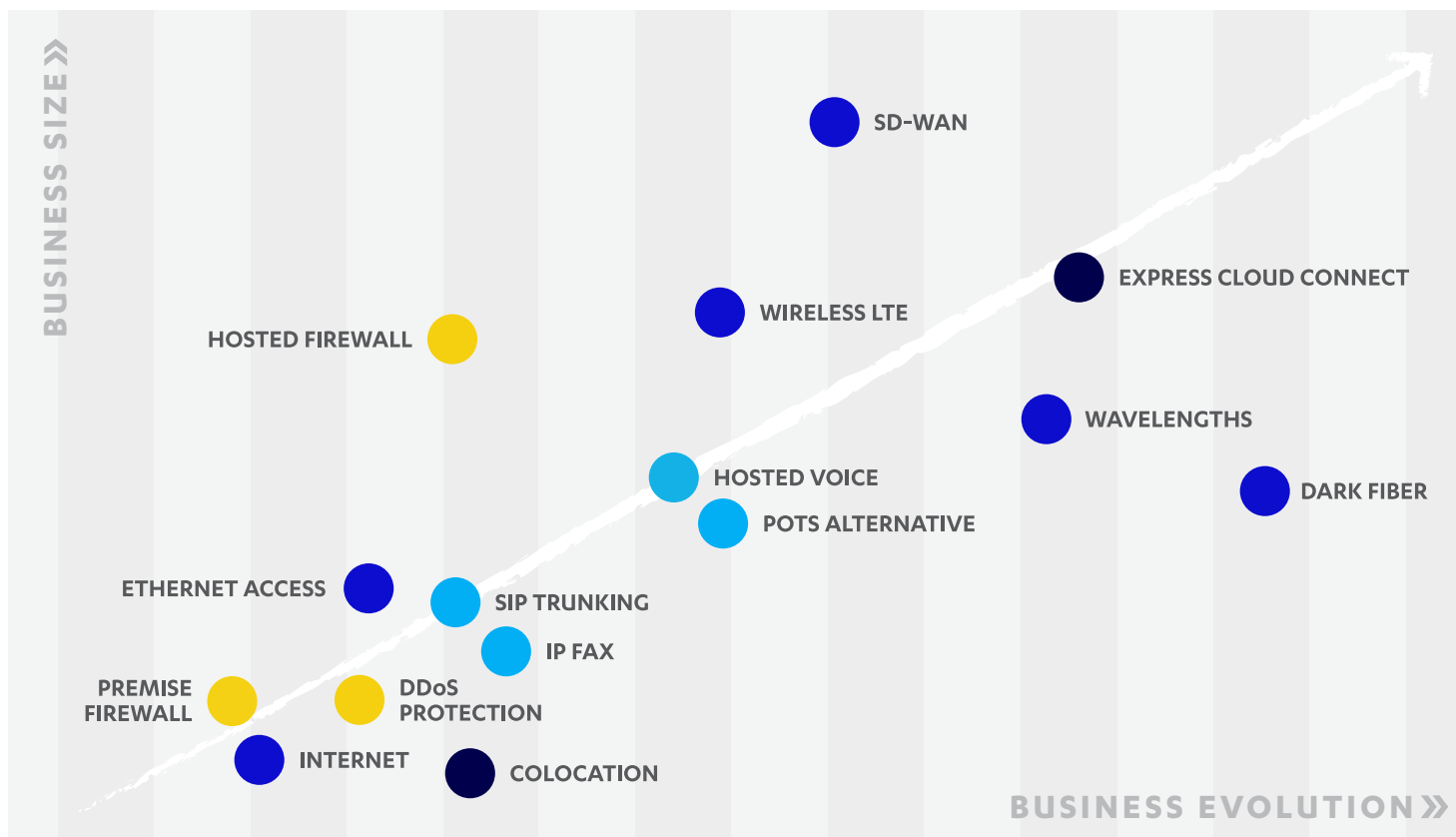
CLOUD & COLOCATION

Secure, reliable data center solutions for traditional and hybrid environments, and a fast, dedicated connection.



VOICE

Combined voice and data solutions and tools to enable shared, seamless conversations across multiple platforms.





Few things are more important for busy construction and engineering firms than doing good work and doing it quickly. Your ability to satisfy customer expectations and minimize worksite disruptions involves skill, hard work and the right tools – including internet and networking solutions.

- Connecting field teams, job sites, and back office with reliable internet access even in remote locations
- Integrating BIM, drones, and IoT sensors for real-time site monitoring, progress tracking, and clash detection
- Protecting sensitive project data and designs as cybersecurity threats target the construction sector
- Ensuring worker safety and OSHA compliance with wearable tech and AI-powered monitoring systems
- Enabling cloud-based collaboration across architects, engineers, contractors, and clients
- Securing customer data, payroll, permits, and engineering designs in transit and at rest
- Adapting quickly to constantly changing project conditions with flexible, scalable connectivity

Successful execution across these strategic imperatives supports growth while maintaining regulatory compliance and business resilience.

A solid IT infrastructure foundation must be flexible enough to support evolving demands, scalable enough to accelerate data transfers and secure enough to thwart bad actors.

USE CASE 1: Integrated Construction and Engineering Firms

Taking a project from concept to completion is a balancing act with no shortage of challenges. The right IT and networking strategy goes a long way in helping busy firms manage the multitude of pressures, from worksite safety and efficiency to regulatory standards and customer requirements.

● **CONNECTIVITY:** Internet + Wireless LTE

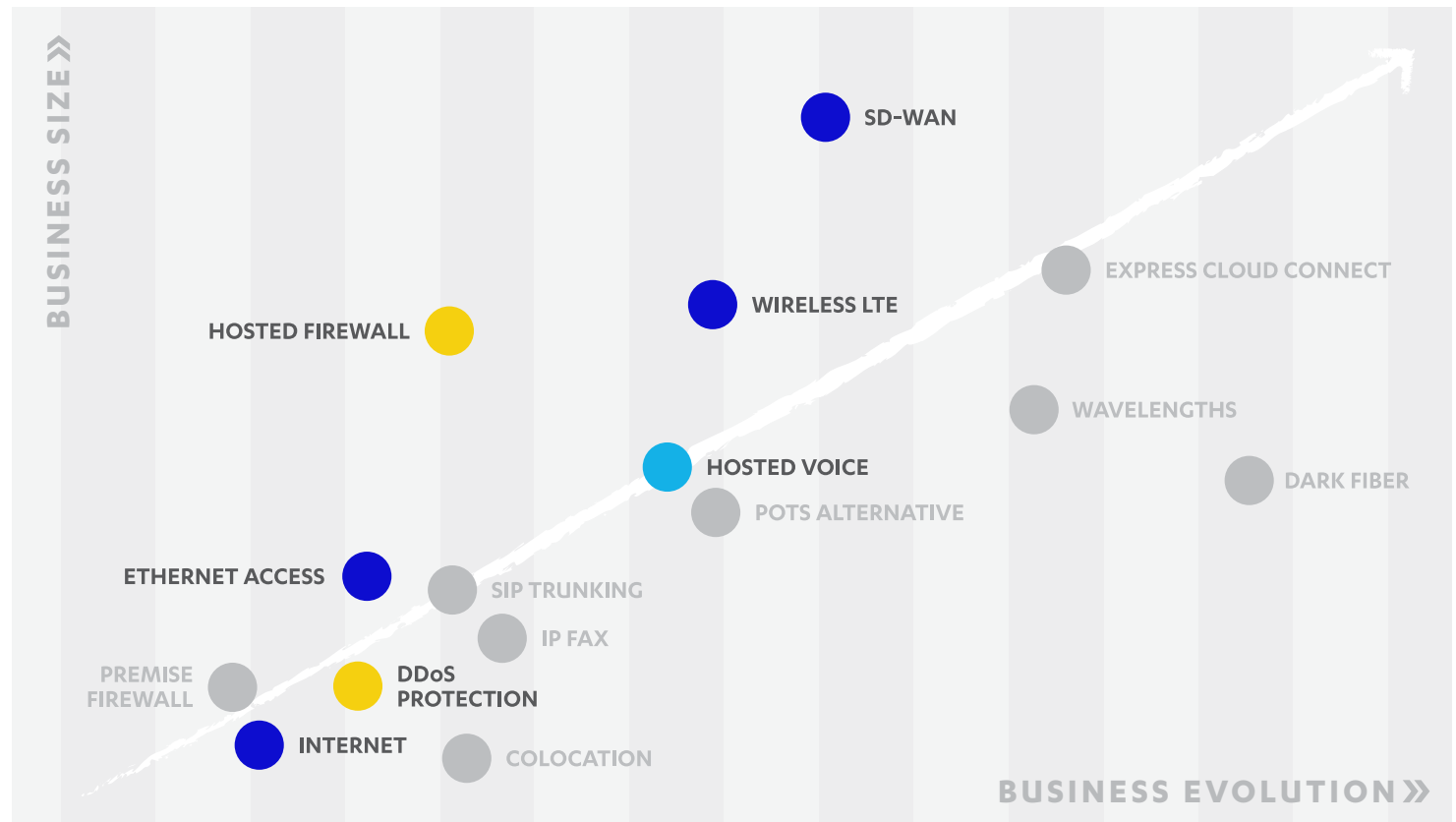
- A software-defined network enables professionals to maximize available connectivity, even in challenging locations where traditional networks may falter.
- Fast, secure, dedicated internet provides the high bandwidth necessary to power mission-critical applications, keep staff connected, and manage vast volumes of data seamlessly.
- Reliable connectivity is especially crucial at temporary field offices and worksites, where access is often limited. The devices you depend on to conduct business from anywhere require a robust, secure wireless network to ensure continuous productivity and data security.

● **CYBERSECURITY:** Firewall + DDoS Protection

- Targeting websites with malicious traffic is an effective cover for more damaging attacks. Repelling attempts to take your digital presence offline before they can strike is an essential part of a solid cybersecurity plan.
- Attacks on your network don't come with a warning. Protecting sensitive data, your business continuity and reputation requires robust security measures over your network.

● **Voice:** Hosted Voice

- In the office or on a worksite, taking care of business involves making and answering calls. Effective communication and collaboration require clear, interruption-free call quality.



USE CASE 2:

Commercial Real Estate Developers

Managing geographically dispersed projects, tight deadlines, strict budgets and a constant flow of information leaves little room for downtime. Business-grade internet and reliable networking solutions give property developers the stability and scalability they need to remain effective and competitive.

● **CONNECTIVITY: Internet + Wireless LTE**

- Successful projects are built on a foundation of speed, efficiency and reliability. Fast, secure fiber internet keeps your staff connected and productive with guaranteed bandwidth and symmetrical upload and download speeds.
- You can't always count on having internet service everywhere you are. Reliable wireless connectivity extends your network beyond the office and keeps your devices connected.

● **CYBERSECURITY: Firewall + DDoS Protection**

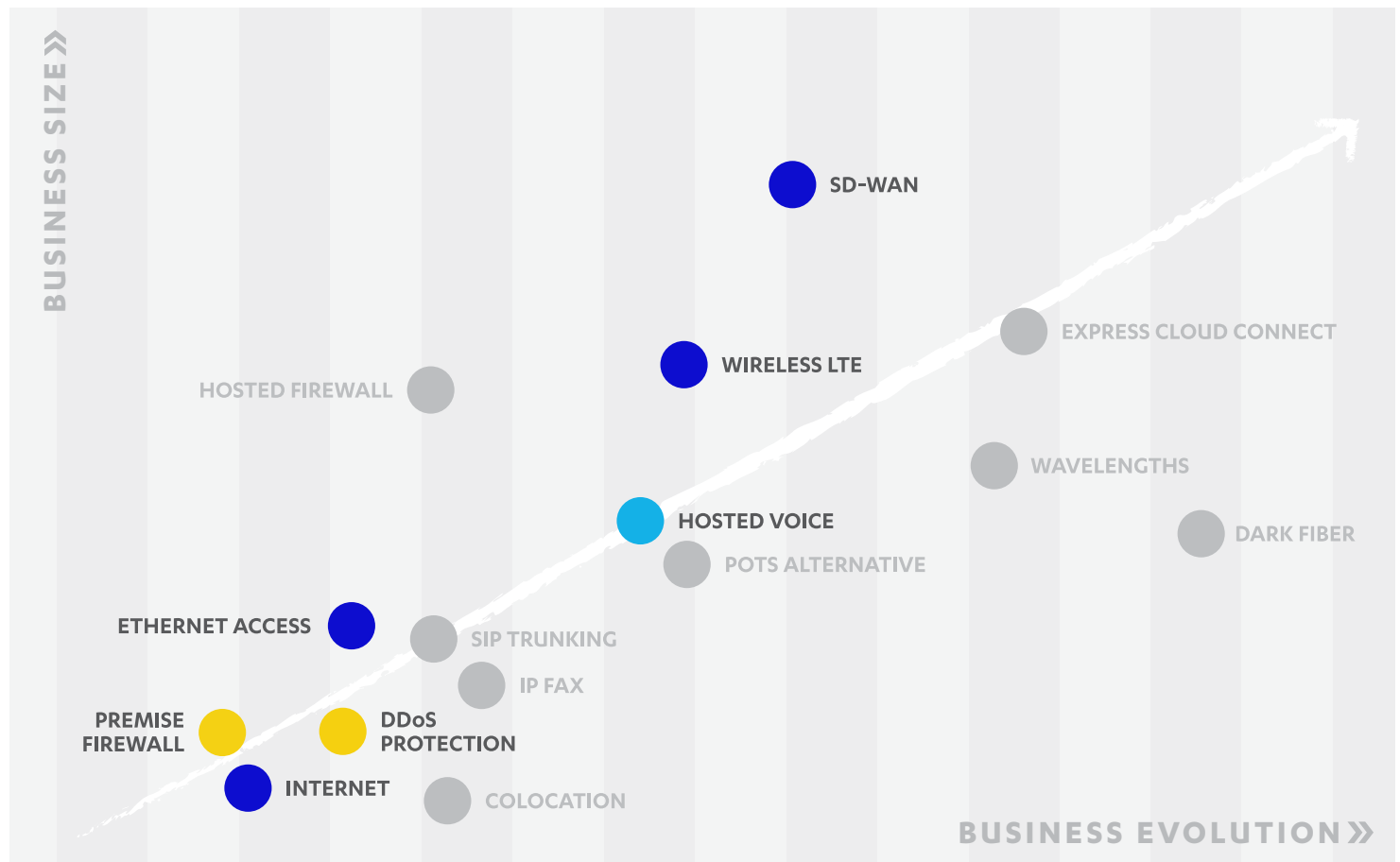
- The wrong time to think about data privacy and security is after your

network has been breached. Protecting your systems and information from bad actors starts with easily configurable and robust perimeter defenses that keep your operations safe in real time.

- Automatic DDoS protection on all your internet connections keeps your website running and your users productive, even when bad actors are trying to take you down.

● **VOICE: Hosted Voice**

- From communicating with clients to coordinating with contractors and vendors, phone calls are an essential touchpoint. Making the most of every call starts with high-quality voice, video and collaboration solutions.



What's **Your Play?**

These are widely used connectivity plays successful construction and engineering firms swear by. Refer to this playbook every time you're thinking of adopting new technologies and use these plays as building blocks to put together your technology game plan. It can help you think through every move to ensure your business is set up for success.

The plays contained in this document address broad use cases. Some products in a play may not be ideal for specific use cases or situations and some products not included in the play may work better for other business scenarios.

Segra offers a broad portfolio of technology services and will help you design a winning technology game plan tailored to your unique business needs.

Let's start a conversation today.

