



Solution Brief

LTE Integration with SONICWALL[®] Security Appliances

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INTRODUCTION

Accelerated + SonicWall Joint Solution Benefits:

- **Reliable:** Get the most out of your SonicWall by ensuring it stays online thanks to Accelerated's cellular Internet access (for primary or failover connectivity).
- **Optimized:** Couple a NGFW with an LTE router to achieve unprecedented network control and visibility.
- **Scalable:** Cloud management platforms from both SonicWall and Accelerated provide centralized administration and automated provisioning.
- **Innovative:** Surpass the limitations of stateful firewalls and USB cellular aircards.
- **Effective:** Design a contingency plan that offers all the security, speed, and business continuity of a wired network solution.
- **Flexible:** Select from a variety of hardware models to ensure deployments meet site requirements (Ethernet availability, cell coverage, etc.).

BUSINESS CONTINUITY DEPENDS on seamlessly integrated failover connectivity to prevent security intrusions and service interruptions. Now more than ever, contingency networks play a strategic role in sustaining business operations. Unplanned outages and data breaches can cost companies significant time and money, frustrating employees and clients alike, which often creates a negative perception that is difficult to overcome.

Cellular connectivity (4G LTE) is a critical component of data recovery and business continuity for small & medium businesses (SMBs) and distributed enterprises. It is equally important to ensure cellular traffic be subjected to same security effectiveness as wired traffic. With the constant evolution of new cellular modems, end users must feel confident that their cellular solution will operate flawlessly without significant change to the existing infrastructure. For these reasons SonicWall and Accelerated have teamed up to offer a comprehensive security bundle focused on the needs of SMBs, distributed enterprises with branch offices, retail organizations, and state/federal governments.

SonicWall's TZ Series firewalls consolidate enterprise security measures into a single Next-Generation Firewall (NGFW) device. It optimizes and secures networked environments thanks to a robust suite of security capabilities that run on the appliance to deliver automated real-time breach detection and prevention.

Pairing a NGFW with the Accelerated router ensures networks remain secure and operational even if the primary ISP fails. Running cellular backup via an LTE router provides 4G Internet access to a SonicWall firewall without restricting the quality of said cellular signal due to poor reception, which isn't the case for USB-connected Aircards that must be directly plugged into existing equipment.

cellular Internet access, they, like most users seeking to retrofit equipment for Wireless WAN (WWAN) access, turned to USB aircards. As challenges associated with the optimal positioning of security devices for cellular signal strength increased, it was essential to overcome the lack of flexibility and signal strength limitations associated with the USB based cellular solutions.

Bringing cyber defense online

THERE WAS A CLEAR NEED for integrated failover utilizing cellular data access, as indicated by the network-appliance industry's adoption of USB ports to support aircards, yet those solutions proved inadequate given the growing complexity of enterprise applications and NGFWs. Over the years SonicWall tested myriad USB and PC card cellular solutions across multiple carriers in the U.S. and abroad. SonicWall recently turned its attention to standalone cellular routers and found them to be a strong alternative for providing WWAN connectivity to the company's portfolio of TZ, NSA and SuperMassive NGFWs.

Accelerated's line of LTE routers are the first standalone 4G networking appliances certified for interoperability with SonicWall devices.¹ They have been tested extensively and are independently certified for coverage on all major cellular networks. Being carrier agnostic, Accelerated routers allow network administrators to deploy fully integrated WWAN connectivity alongside the SonicWall firewall appropriate for their organization – all while leveraging the mobile network best suited for the devices' geographic location.

Piecewise device deployments

SEPARATING THE "SECURITY PIECE" from the backup "connectivity piece" creates room for a more refined approach as network architects aim to maximize Internet uptime, network throughput, and the effectiveness of real-time security precautions. To thwart the escalating complexity of cybercrime, NGFWs evolved beyond legacy (stateful) firewalls, which only offered security based off of port control and traffic protocols rather than endpoint-facing features like gateway

RELIABILITY PAIRED WITH COMPREHENSIVE SECURITY

WHEN SECURITY VENDORS FIRST started adopting

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antivirus, granular traffic monitoring, and SSL inspection. These older security appliances simply monitored “handshakes” between requests made by client devices and the responses received from web servers. NGFWs, however, utilize DPI-SSL and other technologies that grant security specialists access to the entirety of an online conversation between devices (i.e. everything that occurs after the aforementioned “handshake”).

NGFWs’ capabilities are a direct response to hackers’ lust for exploiting increasingly complicated vulnerabilities that can lead to significant downtime. The inclusion of cellular connectivity as an integral-yet-separate component is an extension of this awareness – having independent hardware for backup/failover Internet access enables SonicWall’s security appliances to dedicate system resources toward security protocols rather than worrying about driving a cellular radio.

Always-available network monitoring

NGFW FEATURES rely upon cloud services or always-on connectivity to drive optimal cyber defense. SonicWall’s dedicated, in-house Capture Labs Threat Research Team develops countermeasures to deploy to customer firewalls for automated real-time breach detection and prevention. The team gathers, analyzes and vets data on potential threats from multiple sources including its award-winning network sandboxing service, Capture Advanced Threat Protection, as well as more than one million SonicWall sensors located around the globe that monitor traffic for emerging threats.

SonicWall NGFW customers benefit from continuously updated threat protection. New updates take effect immediately without reboots or interruptions. In addition to the countermeasures on the appliance, SonicWall NGFW appliances also have access to SonicWall CloudAV, which extends the onboard signature intelligence with over 20 million signatures.²

In order to realize the benefits of this real-time protection, organizations need uninterrupted WAN access. Should there be an unplanned

outage, the guarantee of WAN redundancy via LTE ensures the firewall will continue to receive and push critical threat signatures.

ACCELERATED OPTIMIZES CELLULAR DATA ACCESS

The 6310-DX: Bolster your SonicWall

CELLULAR INTERNET DELIVERS the most dependable redundancy and efficient data-plan pricing compared to wireline alternatives for failover connectivity. It also offers a competitive edge in being able to stand up additional connections quicker than traditional ISPs which require a truck roll for new activations. As SonicWall’s first endorsed third-party gateway for wireless broadband, Accelerated routers integrate easily and seamlessly with their security solutions.

It delivers 4G Internet access directly to a client device via an Ethernet interface, incorporating LTE connectivity into the networked environment protected by a SonicWall firewall appliance, with minimal need for additional configuration. Once connected to a NGFW, it is merely a matter of assigning the cellular connection to the proper zone (WAN) in SonicWall’s administration interface. Load balancing and failover management can then be established as necessary by configuring the relevant interface group.

The DX’s compact, lightweight form factor allows the device to take advantage of a variety of mounting scenarios. A PoE injector is available to maximize deployment options: organizations can situate their router in a location conducive toward cellular reception and then run Ethernet cabling back to the data center where connectivity is required; the PoE injector supplies electricity to the 6310-DX through its Ethernet port, avoiding the need for a nearby power outlet. The unit can also ship with a temporary battery pack to provide a means of assessing the best placement options for optimal signal strength.

FURTHER READING

Click any of the titles below to open the following documents in a web browser:

- **2017 SonicWall Annual Threat Report**

2016 was a highly active attack year. Ransomware alone increased by well over 100X. From the Internet of Things to mobile devices and even virtual worlds, cybercriminals are increasingly aggressive in their stealth strategies. You'll need answers for how to respond to this relentless threat landscape. Learn about the trends we found in 2016 and what you can expect to see this year.

- **Achieve Deeper Network Security**

Next-generation firewalls (NGFWs) have become the new norm for network security in today's advanced-threat environment. Yet not all NGFWs are the same. To safeguard your organization from ever-evolving threats, your NGFW must be able to deliver a deeper level of network security.

- **Wireless Business Continuity**

Cellular solutions from Accelerated Concepts are designed with business continuity as a primary use case. Learn more about how LTE data access can serve as an ideal failover connection, what businesses risk due to unplanned Internet outages, and why Accelerated's continuity implementations offer best-in-breed reliability.

Accelerated View™ : Maintain control

IT IS IMPORTANT FOR ENTERPRISE system administrators to have as much information as possible regarding the status of their network environment, both as a security measure and to ensure traffic is being handled properly. Thanks to the "always-on" availability of 4G connectivity – where an Internet connection is only an activated SIM card away – each and every Accelerated device is capable of being managed remotely using Accelerated View, a cloud-based reporting and configuration platform developed by Accelerated Concepts.

ABOUT ACCELERATED

Accelerated is an enterprise-grade provider of cellular (LTE) networking equipment for primary or backup networking applications. Providing the backbone for **failover**, as well as **M2M and IoT solutions**, Accelerated delivers cellular business continuity and internet access to areas with limited broadband availability. Since the creation of its flagship product in 2006, Accelerated continues to innovate its product line to better meet the needs of customers ranging from retail to manufacturing in today's increasingly connected world.

ABOUT SONICWALL

SonicWall has been fighting the cyber-criminal industry for over 25 years defending small, medium-size businesses and enterprises worldwide. Backed by research from the SonicWall Capture Labs Threat Network, our award-winning real-time breach detection and prevention solutions, coupled with the formidable resources of over 20,000 loyal channel partners around the globe, are the backbone securing more than a million business and mobile networks and their emails, applications, and data. This combination of products and partners has enabled an automated real-time cyber defense solution tuned to the specific needs of the more than 500,000 global businesses in over 150 countries.