

MAXIMIZE MOBILE NETWORK PERFORMANCE AT THE EDGE

PARTNER SOLUTION BRIEF



Mobile video traffic is forecast
to grow by around

50%

annually through 2021.¹

INCREASING MOBILE TRAFFIC STRAINS EXISTING INFRASTRUCTURE

Communications service providers (CSPs) face massive growth of mobile broadband traffic. Global mobile data traffic is expected to increase 445% between 2017 and 2021.² To continue providing high-quality user experiences and reduce customer turnover, CSPs are increasing investments in their mobile broadband infrastructure. Radio access network (RANs)—the communications link between the customer and the CSP datacenter—is a primary focus for improvement.

Increasing RAN infrastructure to expand capacity is not always practical, or even achievable. RAN equipment, cell-site procurement, and installation can be costly. Furthermore, due to technological limitations of wireless signaling or costs of spectrum, adding capacity in a given geographical area is not always possible. As an alternative to traditional RAN investments, Red Hat and Vasona Networks offer a mobile edge solution that uses your existing RAN infrastructure to meet increasing customer demand, deliver a better user experience, and explore new business opportunities.

MAXIMIZE MOBILE NETWORK EFFICIENCY

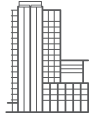
The Red Hat® and Vasona Networks mobile edge solution combines the Vasona Networks SmartAIR® multi-access edge computing (MEC) platform with the Red Hat network functions virtualization (NFV) solution. Vasona Networks SmartAIR provides real-time visibility into cell congestion and mobile device location, automatically manages RAN resource contention, and alleviates congestion effects at the individual cell level. It continually assesses subscriber sessions, traffic congestion, and application and media characteristics in each cell. When congestion occurs, it dynamically and seamlessly manages capacity to allocate bandwidth according to each session's requirements.

Vasona Networks SmartAIR runs as a virtual network function (VNF) on the Red Hat NFV solution. Through co-engineering, Red Hat OpenStack® Platform provides a reliable, stable, security-focused operating platform for NFV workloads. Red Hat Ceph Storage delivers robust, massively scalable, software-defined storage for cloud environments like NFV.

Using a seamless, scalable, and reliable deployment model, the Red Hat and Vasona Networks mobile edge solution is installed at your central offices and integrated at the edge of the mobile network. This reduces response times as decisive action occurs at RAN traffic aggregation points close to end users. Support for industry-standard 3G, 4G, and 5G network infrastructures lets you deploy the solution within your existing network and expand as demand grows.

¹ "Global mobile video traffic from 2016 to 2021." Statista. 2018.
[statista.com/statistics/252853/global-mobile-video-traffic-forecast](https://www.statista.com/statistics/252853/global-mobile-video-traffic-forecast).

² "Global mobile data traffic from 2016 to 2021." Statista. 2018.
[statista.com/statistics/271405/global-mobile-data-traffic-forecast](https://www.statista.com/statistics/271405/global-mobile-data-traffic-forecast).



ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

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DELIVER A BETTER MOBILE EXPERIENCE TO YOUR CUSTOMERS

CSPs use many techniques to retain customers and acquire new ones. However, not all methods are equally successful. The Red Hat and Vasona Networks solution can help you improve mobile broadband performance to enhance customer satisfaction. By pinpointing cell-level problems during peak hours and alleviating network congestion, the solution lets you deliver consistent network performance with no interruptions to video, browsing, and mobile applications, even during busy hours. Advanced network traffic shaping and guidance capabilities help you proactively configure your network to provide a better user experience.

MAKE YOUR CURRENT INFRASTRUCTURE MORE EFFICIENT

Forecasts show that mobile video traffic will grow by around 50% annually through 2021.³ To meet this growth in demand, CSPs must add more network capacity, which can be costly and time-consuming. The Red Hat and Vasona Networks mobile edge solution can help you achieve more bandwidth from your current infrastructure investments. Intelligent network traffic management improves RAN resource efficiency and utilization. Advanced application management—with visibility into application demand at the cell level—delivers a more consistent performance for all users.

PREPARE YOUR NETWORK FOR FUTURE INNOVATION

Telecommunications technology is evolving faster than ever. The Red Hat and Vasona Networks solution helps you prepare your network for growth and change. Historical and real-time insight help you better plan for network capacity growth. Support for emerging technologies—including 5G networking and the Internet of Things (IoT)—gives you the flexibility to respond to changing customer demands and trends over time.

LEARN MORE

Mobile broadband customers continue to demand more bandwidth and higher performance. Red Hat and Vasona Networks can help you deliver a better customer experience by increasing the performance and efficiency of your current mobile network infrastructure, preparing you for future innovation and growth. Contact your Red Hat or Vasona Networks sales representative to find out how you can take advantage of mobile broadband growth.

Learn more at redhat.com/telco and vasonanetworks.com.

³ "Global mobile video traffic from 2016 to 2021." Statista. 2018.
statista.com/statistics/252853/global-mobile-video-traffic-forecast.