

## EXPERIENCE THE BENEFITS OF

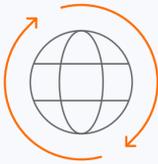
# 5G

### IN THE NEW TOMORROW

Mobile operators in **The New Tomorrow** are expected to deliver revolutionary new services to meet growing consumer and enterprise demands. Much has been written in recent years about the emergence of 5G mobile technology and the mission critical nature of the exciting new services and applications it will enable. While each operator is investing billions of dollars on 5G infrastructure, the innovations in faster mobile and IoT data access required to operationalize the new architecture will overwhelm their centralized infrastructure, leading to high levels of cost and user experience monitoring.

#### 5G IS HERE TO STAY: MARKET GROWTH

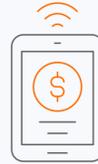
Technology has come a long way since the first transistors ushered in the era of modern computing. And as explained by Moore's Law, it's not going to stop anytime soon. 5G technology will bring increased data availability to cellular users and IoT devices around the world.



5G connections worldwide will surpass **1 billion in 2023.**<sup>1</sup>



The number of 5G connections expected to grow from roughly **10 million<sup>2</sup> in 2019 to over 1 billion in 2023.**

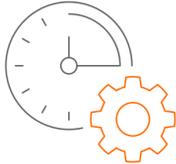


Mobile service providers will invest **\$1 trillion<sup>3</sup> worldwide** between 2018 and 2025.

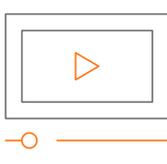
#### 5G'S UNTAPPED POTENTIAL ACROSS INDUSTRIES

With use cases ranging from the healthcare and financial services industries to the ability of 5G to enable digital transformation for enterprises worldwide, 5G networks are poised to bring a new wave of explosive growth. But, as with any new development, the benefits (faster speeds and increased capabilities) come with their disadvantages (more encrypted traffic and an increased threat landscape).

#### ENHANCED MOBILE BROADBAND: 5G DOESN'T STOP AT MOBILE PHONE USAGE.



Experts believe **5G is more than a speed boost.**<sup>4</sup> It is being referred to as the foundational tech that will increase the adoption of technologies like virtual and augmented reality.



Video accounts for more than **80%<sup>5</sup> of traffic** across mobile networks.



The cloud gaming market is expected to reach **\$3 billion<sup>6</sup> by 2024.**

#### INTERNET OF THINGS: 5G WILL CONNECT ALL POSSIBLE DEVICES WIRELESSLY FOR CONVENIENT USAGE.



66% find video capture and streaming services appealing, and 69% say **video detection and alerts hold high appeal.**<sup>7</sup>



With the help of 5G, more than **four billion<sup>8</sup> IoT connections** are expected by 2023.

#### MISSION-CRITICAL COMMUNICATIONS: 5G WILL ENABLE THE REMOTE CONTROL OPERATION OF AUTONOMOUS VEHICLES, CRITICAL INFRASTRUCTURE, AND EVEN MEDICAL PROCEDURES.



Worldwide 5G network infrastructure market revenue will almost double in 2020 to reach **\$8.1 billion.**<sup>9</sup>



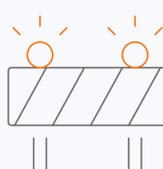
74% of organizations find 5G appealing for connected vehicles especially when used for **safety and security.**<sup>10</sup>

#### THE KEY TO 5G SUCCESS: NETWORK VISIBILITY AND MONITORING SOLUTIONS

As a result of the global pandemic in 2020, organizations were forced to adapt to a distributed workforce and ever-changing environment with limited resources and frozen budgets. As such, it is critical that organizations provide subscribers with cost-effective, scalable and pervasive network visibility required by 5G service providers for secure access to real-time, actionable insights into mobile over-the-top traffic.



5G will enable data speed to **increase<sup>11</sup> to 10 Gbps,** the equivalent of a 20-fold increase.



**80-90% of barriers for 5G<sup>12</sup>** adoption are predicted to be solved by a single bundled solution/service.

#### READY TO START YOUR 5G JOURNEY?

Set up a complimentary meeting with us today to **learn more** about how a partnership with Gigamon can provide you the confidence you need for a seamless 5G security and performance monitoring experience.

# Gigamon<sup>®</sup>



#### SOURCES:

- [https://www.ccsinsight.com/wp-content/uploads/2019/02/CCS\\_Insight\\_5G\\_Forecast\\_Sample.pdf](https://www.ccsinsight.com/wp-content/uploads/2019/02/CCS_Insight_5G_Forecast_Sample.pdf)
- <https://www.idc.com/getdoc.jsp?containerId=prUS45740019>
- <https://www.gsma.com/services/events/gsma-intelligence-webinar-investing-in-5g-networks/>
- <https://www.cnet.com/news/5g-what-it-is-and-how-it-will-change-your-life/>
- <https://www.adcolony.com/blog/2019/03/05/video-on-track-to-be-nearly-80-of-mobile-data-traffic-by-2022/>
- <https://www.prnewswire.com/news-releases/cloud-gaming-market-worth-3-107-million-by-2024--exclusive-report-by-marketsandmarkets-300986396.html>
- <https://www.nokia.com/networks/research/5g-consumer-market-research/>
- <https://bgr.com/2018/11/27/5g-data-new-study-statistics/>
- <https://www.gartner.com/en/newsroom/press-releases/gartner-says-worldwide-5g-network-infrastructure-spending-to-almost-double-in-2020>
- <https://www.nokia.com/networks/research/5g-consumer-market-research/>
- <https://www.telekom.com/en/company/details/5g-speed-is-data-transmission-in-real-time-544498>
- <https://www.nokia.com/networks/research/5g-consumer-market-research/>