

How Safe Is Your Enterprise 5G Network...Really?

Enterprise 5G networks are powering the digital transformation of industrial applications around the world. Globally, 5G is predicted to be a US\$2.2 trillion digital economy by 2034 – one that requires new network technologies and, more importantly, new approaches to securing these networks.

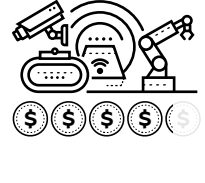
Enterprise 5G spending is predicted to grow at 12.63% CAGR from 2019–2024, with roughly \$1 billion dedicated to security.*

\$1 billion



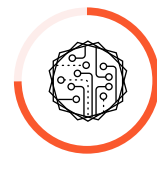
Enterprises leverage 5G as a platform for digital transformation

IoT/M2M



41.6B
devices estimated to be connected to the internet by 2025†

Edge Intelligence



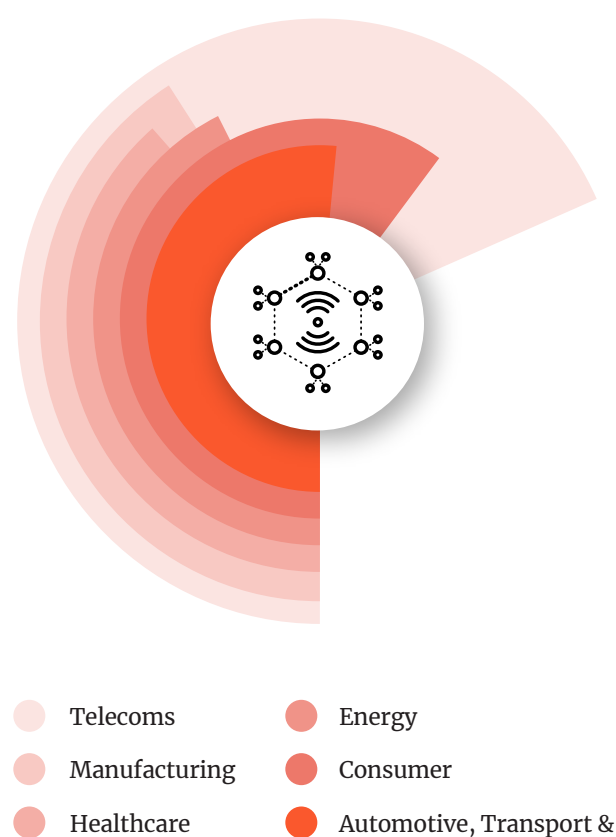
75%
of enterprise-generated data will be created and processed at the edge by 2025†

New 5G Services

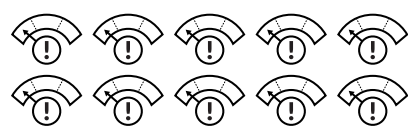


Up to 13%
boost in gross margins for factory and warehouse operations that fully embrace Industry 4.0, leveraging private cellular networks†

5G Readiness*



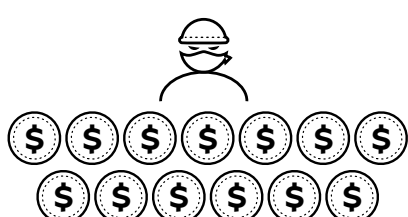
The importance of security



Impact of cryptocurrency mining

10x

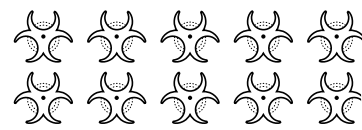
Performance reduction in IoT devices§



Rising average breach costs

\$13M

Annual cost of cybercrime to an organization, a 72% increase in the last five years¶



Malware variants on the rise

9.9B

Malware attacks record in 2019||



IoT device attack vulnerability

57%

of IoT devices are vulnerable to medium- or high-severity attacks, making IoT the low-hanging fruit for attackers§

Who can benefit?



Healthcare



Energy & Utilities



Industrial IoT



Transportation & Logistics

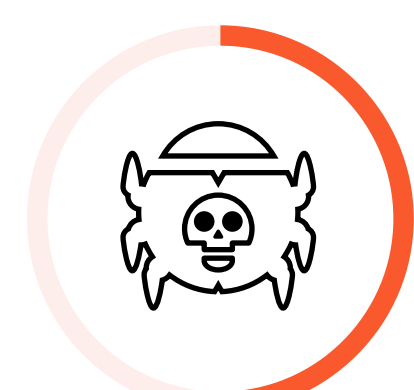


Public Sector



Oil & Gas/Mining

Manufacturing industry concerns



of manufacturers had a data breach from June 2018 to June 2019**



38%

perform cybersecurity audits**



32%

perform security assessments of vendors**



Critical infrastructure industry concerns

Critical infrastructure OT is under attack



90%

have experienced at least one damaging cyberattack on IT and OT, and 62% have experienced two or more††



50%

experienced an attack against OT infrastructure that resulted in downtime for plant and/or operational equipment††



23%

experienced an attack they were able to attribute to a nation-state††

Utility preparedness for cyberattacks



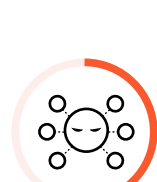
18%

of organizations use AI and big data analysis to monitor operations and recognize threats††



64%

of respondents across the industry say sophisticated attacks are a top challenge††



54%

expect an attack on critical infrastructure in the next 12 months††



New enterprise 5G trends demand a new approach to security

The Palo Alto Networks difference



Visibility

Uniquely scan enterprise 5G networks. Secure integrated supply chains to support myriad suppliers and business partners with customizable security permissions and access privileges.



Control

Deliver advanced threat prevention from the cloud. Ensure IT and OT networks are protected from cyberattacks that could harm valuable assets and disrupt productivity.



Enforcement

Build a Zero Trust ecosystem for edge clouds and private networks. Leverage security solutions tailored for industrial use cases via a centrally managed platform for consistent security and reduced TCO.



Lifecycle

Improve threat and overall network visibility by illuminating usage patterns and potential security gaps through automated analysis of the evolving threat landscape.

Are you ready for a different approach to secure your enterprise 5G network?

Learn more →

Sources

*"The Mobile Economy," GSMA

†"The Growth in Connected IoT Devices Is Expected to Generate 79.4ZB of Data in 2025, According to a New IDC Forecast," IDC

‡"5G Market Set to Boom – But Clarity Is Needed, IHS Market Says," IHS Market

§"2020 Unit 42 IoT Threat Report," Palo Alto Networks

||"2020 SonicWall Cyber Threat Report," SonicWall

¶"The Cost of Cybercrime," Accenture and Ponemon Institute

**"50% of Manufacturers Experienced Data Breaches in Past Year," IndustryWeek

††"Cybersecurity in Operational Technology: 7 Insights You Need to Know," Ponemon Institute and Tenable

†††"Caught in the Crosshairs: Are Utilities Keeping Up with the Industrial Cyber Threat?" Siemens