Supply Chain 4.0: Transport/logistics sector ready to go for private 5G

20% of private networks (LTE/5G) deployed in 2020 were in the transport sector, mainly in ports and airports.¹

By 2024, 92% of enterprises in the transport sector plan to deploy private 5G networks.²

Private 5G networks offer more capacity, a more robust signal, lower latency, greater security and can be used when connected devices are on the move.

Application performance and security monitoring end-to-end are critical in building a foundation of trust.

¹Analysys Mason Private LTE/5G networks forecast 2020 ² Analysys Mason Private 5G enterprise adoption survey 2021

5G success depends on understanding how the transport sector plan to deploy 5G, key drivers and use cases. Get our Research Report to read more about it.

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How does the transport sector plan to deploy 5G?

New research report looks at how enterprises plan to adopt and manage 5G networks, and the key drivers and barriers. Analysys Mason surveyed 207* enterprise respondents from Germany, the UK, Japan and the U.S. in six vertical sectors.

*Transport sector respondents n=13. Numbers are indicative of general trends.



Connectivity in Transport sector*



*Private LTE and 5G numbers are high and may include public LTE and 5G, although clear definitions were provided in the survey. Market education is key to driving awareness of the benefits of private options. (source: Analysys Mason)

Most important 5G attributes

Highly secure	85%
Cloud-native architecture	85%
High reliability	77%
Flexibility vs. fixed networks	77%
High mobility	77%
Technology ecosystem maturity	77%

Preferred private 5G deployment model

Deployment types

- Fully private organization-owned on-premises 5G network
- Virtual private network or network slice
- Hybrid mix of dedicated, on-prem and service provider 5G



Key factors influencing private 5G network deployment model



Network security

77%

Network performance/QoS

62%



Network scalability 62%



Supports wide/specialist range of devices 62%



Integrates with fixed networks **62%**

What's holding them back?

Cost and deployment difficulty are common barriers across all deployment models.



Hybrid network Cost 54% Deployment difficulty 54% Management complexity 38%



Network slice Cost **54%** Limited ability to customize the network 38% Deployment difficulty **31%**



Dedicated private 5G Cost 46% Management complexity 46% Deployment difficulty 31%

DIY or Managed service?



Top 3 performance metrics to be monitored



% of 5G transport use cases that require edge computing platform



% of 5G transport use cases that require edge computing platform

% of use cases that rely on edge	% of respondents
1-25%	31%
25-80%	46%
80%+	23%

Private 5G influencers

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