



# The programmable, cloud-native network: a target architecture for operators



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## About this report

This report discusses the impact of digital technologies on the transformation of the network and the telecoms value chain. It explains why operators need to transform the software components of the network into a programmable platform that opens network capabilities to a range of internal and external stakeholders for consumption by existing and future services.

The report argues that this programmable network platform (PNP) needs to be cloud-native for optimal cost-efficiency and to future-proof its evolution.

The report provides recommendations for senior executives of any operator that wish to participate in the digital economy of the future.

It is based on several sources including:

- Analysys Mason's internal research into operator investment strategies and longitudinal research into operator cloud-native network transformation initiatives
- interviews with operators and vendors engaged with the development of programmable network platforms



### KEY QUESTIONS ANSWERED IN THIS REPORT

- What is operational technology (OT) transformation and what is the impact of introducing key IT transformation to the network?
- Why is the network separating into physical infrastructure and a programmable network platform (PNP)?
- What are the benefits of a cloud-native PNP?
- Which network domains are moving fastest to becoming cloud-native?
- What are the critical success factors for implementing a programmable network platform?



### WHO SHOULD READ THIS REPORT

- C-level operator executives who wish to understand the need to prioritise investment in cloud-native networks.
- Vendors interested in the market dynamics that cloud-native approaches to the network are creating.
- Operators and vendors looking for ways of articulating the drivers for the network as an open, programmable and cloud-native platform.



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The vision for a programmable network platform

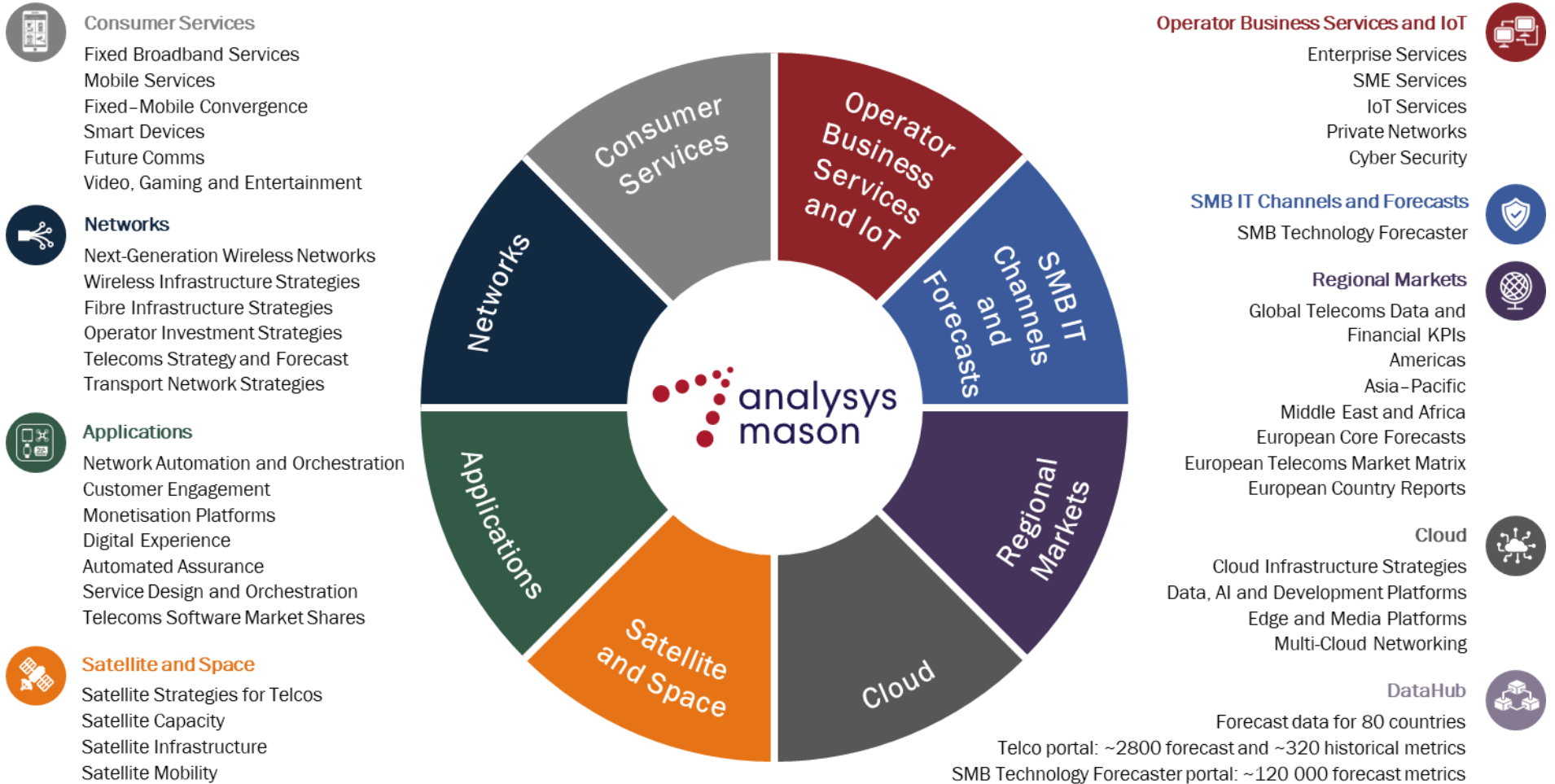
Why does the PNP need to be cloud-native?

Milestones on the road to the cloud-native PNP

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**About the authors and Analysys Mason**

# Our research services



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