

# The Critical Role of Policy in the 5G Ecosystem





## Evolving to 5G and its implications on policy management

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The evolution to 5G requires a coherent and unified policy across the network.

It needs a solution that can easily influence edge computing routing and integration with network data analytics for smarter and more dynamic policy decisions. The solution must be agile and secure enough to flexibly manage different domain-specific policies for more differentiated and personalized customer offerings. It must also possess a policy framework that is granular enough to manage individual services and be capable of managing diverse services across network slices. Consequently, policy plays an even more important role in 5G than in any of the preceding generations of network technologies.

Policy and charging control play a critical role in the 5G ecosystem by providing transparency and control over the consumption of network resources during real-time service delivery



**Network behavior management and governance**

**QoS control**

**Traffic steering/routing**

**Subscriber spending**

**Usage monitoring**

**Interworking with IMS**

**Differentiated services enabler**

**Network slicing**

**Roaming support**

**Quota management**

**Integration with network data analytics function**

# Monetize customized and differentiated services with more flexibility and less cost

- A cloud native policy converged solution will help you avoid multiple platform migrations and leapfrog the policy solution directly to the industry defined 5G Service Based Architecture (SBA).
- Having a secure and flexible policy converged solution is foundational as you seek new revenue streams beyond connectivity and strive to make the most out of cloud native technologies and 5G.



“The ability to ‘right size’ connectivity to specific use cases would mean greater 5G network monetization opportunities, and robust policy will be essential to managing the many network resources and services that comprise increasingly heterogeneous and dynamic environments.”

- ANDREW MORAWSKI, SENIOR VICE PRESIDENT AND GENERAL MANAGER OF ORACLE COMMUNICATIONS, NETWORKS -

“By delivering a solution that addresses 5G policy requirements and underpins KT Corp’s leading 5G transformation, Oracle is staking a claim to leadership in the 5G core”

- ANDY HICKS, PRINCIPAL ANALYST,  
GLOBALDATA -

# Future proof your policy investments

Enhance operational efficiency and reduce the cost of supporting legacy monetization systems:

**Pivot to a more efficient and responsive cloud-based framework for a modern monetization system.**

Improve service agility and reduce the cost of operations through standardization and automation:

**Plan for cloud-based deployment and invest in loosely coupled, microservices based architectural framework.**

Prepare for the significant impact of 5G on your network and service monetization:

**Shift focus to architectural agility to better prepare for the use cases enabled by 5G.**



# Reduce complexity, improve time to market, and protect your investment with a cloud native framework for 4G and 5G policy

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## **Reduce complexity**

Avoid multiple platform migrations and leapfrog the policy solution directly to the industry defined target Service Based Architecture (SBA) characteristic of 5G.

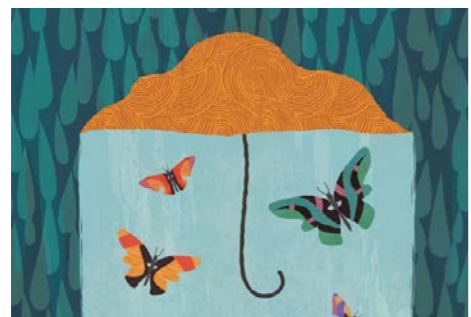
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## **Improve time to market**

Consolidate all decision making in a single policy framework supporting 4G-5G interworking.

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## **Protect your investment**

Incrementally evolve from 4G to 5G, invest in business cases that will yield results today, and be better prepared for future 5G enabled use cases.

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“As CSPs are pushed to meet more stringent SLAs amid more volatile, and harder-to-predict demands across new services, sophisticated policy will unlock new doors in the enterprise space.”

- ANDREW MORAWSKI,  
SENIOR VICE PRESIDENT AND  
GENERAL MANAGER OF  
ORACLE COMMUNICATIONS,  
NETWORKS -

# What capabilities should you look for in a unified policy solution

An insightful user interface for managing both 4G and 5G policies in an intuitive and consistent fashion.

A cloud native approach that provides a seamless interworking and migration between 4G and 5G.

Ability to easily manage different domain specific policies.

Granularity to manage individual and diverse services across slices.

A secure framework to protect the user policies and the network.


An automated solution to optimize the deployment lifecycle of new policies.



“In trials, the Oracle 5G PCF solution performed beyond expectations and met our discerning metrics for driving the success of our upcoming 5G deployment. After six years of successful partnership with Oracle in the 4G realm, we look forward to continuing the partnership with Oracle in the 5G domain and as we move to deliver new, innovative offerings to our customers.”

- GWANGWOOK LEE, VICE PRESIDENT,  
CORE NETWORK STRATEGY &  
PLANNING DEPARTMENT, KT CORP. -

## Reduce network maintenance cost and service delivery time

An illustration of two hands holding a fishbowl. The fishbowl contains two goldfish, one orange and one purple. The background is a dark teal color with a pattern of concentric dotted circles.

Oracle Communications Converged Policy Solution is designed and built as microservices on cloud native principles. It simplifies the task of simultaneously managing policy infrastructure in a 4G and 5G network. Helping you to seamlessly and intuitively design and deploy network policies with a few clicks, without having to worry about the different 4G or 5G network protocols.



# Prepare for 5G with Oracle Communications Converged Policy Solution

**Efficiently manage policies in a 5G network with an intuitive and easy to use graphical interface.**

**Prepare your 5G network to support massive number of devices without compromising service quality.**

**Offer your consumer and enterprise customers differentiated services that are tailored for their requirements and customized to their needs.**

**Ensure the cybersecurity and resiliency of your 5G network with a converged policy solution built on the industry's most secure cloud platform.**

Oracle Communications Converged Policy Solution supports 4G, 5G non-standalone (NSA) Policy and Charging Rule Function and 5G standalone (SA) Policy Control Function on the same cloud native platform providing a unified solution for operators along with a seamless path from PCRF to PCF or vice-versa.





# When it comes to your policy solution, experience matters

Oracle has a legacy in developing policy solutions with more than a decade of experience in designing, deploying and supporting robust, career grade 3G, 4G and now 5G network solutions for the world's top tier 1 telecom operators. Leveraging Oracle's expertise in developing applications for the cloud, Oracle's cloud native Converged Policy Solution seamlessly supports your 4G and 5G network policy requirements. It provides you more flexibility with deployment options into any cloud: Containers on bare metal managed by Kubernetes, or virtual machines managed by Openstack or the likes.

With programmable policies that are intuitive and user friendly, it to be replaced by Oracle helps you in your evolution path towards 5G, to explore and implement 5G use cases ranging from enhanced mobile broadband (eMBB), ultra-reliable low latency communications (uRLLC) to massive internet of things (mIoT).

Visit **Oracle Communications Converged Policy Solution** to find out more.




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