

Modernize 4G and 5G Charging

Providers need to turn network investment into commercial value while continuing to operate services, customers, and processes that span 4G, 5G, and earlier environments. The opportunity is to introduce differentiated connectivity, enterprise, digital, and usage-based offers with the real-time commercial control needed to make those experiences understandable, manageable, and valuable to customers and the business.

Turn differentiated network experiences into commercial outcomes

5G creates new ways to package and charge for connectivity, but monetization depends on more than network capability. Providers need to translate service characteristics, usage, entitlements, and commercial rules into offers that customers can select, understand, and manage. This can include differentiated connectivity, enterprise and private-network services, IoT, usage-based offers, and service experiences with controls for spend, quotas, thresholds, or service treatment.

Modernize 4G and 5G charging at your own pace

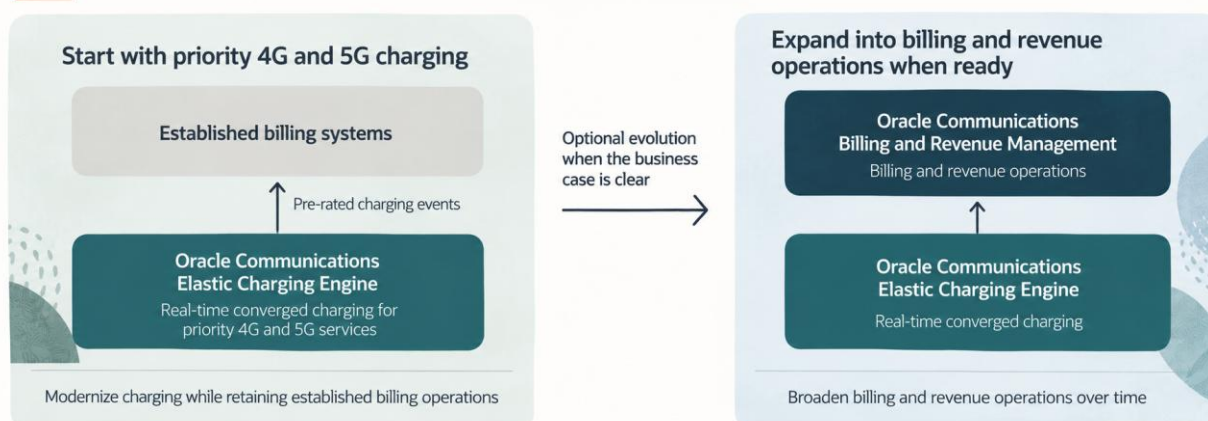


Figure 1. Introduce real-time 4G and 5G charging alongside established billing systems, with the option to expand into Oracle billing and revenue operations when the business case is clear.

The challenge is compounded by the need to continue serving established 4G and legacy services. Fragmented charging environments can slow the introduction of offers, complicate pricing and balance management, and make it harder to maintain a consistent view of how services are consumed and charged. They can also separate real-time network activity from the billing and revenue processes that must explain commercial outcomes.

The goal is not simply to deploy a new charging platform. It is to establish real-time, converged charging as a practical commercial foundation: one that supports evolving services and payment models while allowing providers to retain operational control over their multigeneration environment.

Progress at a pace that protects established operations

Charging modernization should reflect business priorities, existing investments, operational readiness, and migration readiness. A provider may begin with the 5G, enterprise, digital, or high-growth service domain where real-time charging can make the clearest difference, while established charging, billing, mediation, and service-control environments continue to operate where required.

This phased approach avoids treating modernization as an all-or-nothing replacement. Providers can introduce real-time converged charging for priority services and feed pre-rated charging events to existing billing systems, then expand the scope as commercial and operational requirements develop. Where a later consolidation or migration of selected services would create a clear business case, it can be pursued on that basis—not assumed at the outset.

Established SS7-based intelligent-network service-control environments can also remain in operation during the transition. Oracle Communications Convergent Charging Controller provides a practical option for continuing those voice, messaging, and intelligent-network services while the provider modernizes the charging domains most relevant to its future plans.

Create the commercial and operational context to act in real time

Real-time charging connects service use with the commercial decisions that govern it. Rating, balances, quotas, and session control can help providers apply the right treatment as a service is consumed, while giving customers and operations teams clearer visibility into usage, entitlements, and spend.

This context supports a more responsive commercial model. Providers can apply charging and pricing rules across services, events, and usage patterns; support prepaid, postpaid, and hybrid experiences; and connect appropriate information to digital channels through supported APIs. The result is not merely faster authorization—it is a stronger connection between network behavior, customer experience, and commercial accountability.

Trusted context also matters beyond the charging moment. Controlled usage data, charging evidence, and relevant billing and revenue information can help teams investigate issues, understand commercial outcomes, and determine where intervention is needed. This contributes to the longer-term Autonomous Revenue Management operating-model direction: governed intelligence can use trusted context to support investigation, recommendations, and approved action. Autonomous Revenue Management is not a separately packaged product; people, policies, and authoritative systems remain in control.

Apply the capabilities the outcome requires

Oracle Cloud Scale Monetization is a complete, modular monetization solution that brings together converged charging, billing and revenue management, usage-data mediation, and service control. Providers use the components appropriate to their starting point and requirements.

Oracle Communications Elastic Charging Engine is the strategic product for real-time, converged charging. It supports real-time rating, balance management, authorization, and session processing for evolving services and payment models, with a cloud-native deployment option and active-active dual-site architecture to support scalable, resilient charging operations. Oracle Communications Billing and Revenue Management can be introduced where providers require billing, invoicing, receivables, collections, settlement, and wider revenue operations. Oracle Communications Offline Mediation Controller can be introduced where controlled, normalized, and traceable usage-data mediation is required across relevant network and application sources. Oracle Communications Convergent Charging Controller remains relevant where established SS7-based intelligent-network service control must continue during modernization.

This modular approach lets providers connect the capabilities needed to monetize priority services now, while retaining the option to broaden the monetization environment as needs evolve.

Summary

Monetizing 4G and 5G charging means connecting differentiated services with real-time commercial control while retaining the flexibility to coexist with established billing systems. Oracle Cloud Scale Monetization provides a modular path to introduce converged charging where it matters most, then expand into billing and revenue operations when the business case is clear.

Learn more

Learn more about Oracle Cloud Scale Monetization at oracle.com/cloud-scale-monetization

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