

Optiva Charging Engine on Google Cloud Transforms 1Global's Business Inside and Out

50% Reduction

in maintenance windows of non-critical activities

2 Hours

to test system spin up & 5 minutes for automated daily checks

9 S/W Rollouts

in one year with new features & no disruption to business continuity

Customer Background

1Global (previously Truphone), a global mobile network operator, provides mobile connectivity to consumer and enterprise segments and IoT devices to over 3,500 multinational enterprises in 190+ countries. It is renowned for its technological breakthrough products offered worldwide. Headquartered in Netherlands, it has 15 offices across four continents and continues to expand globally.

The company, a global network of MVNOs united via a dedicated IP mobile core network to create a single international roaming "zone," was an early adopter in OTT software to compete against traditional mobile operators.

1Global is riding the wave of digital transformation and IoT and exponentially growing its embedded eSIM business globally while putting customer experience at the forefront.

Customer Opportunity

1Global wanted to plan well for the future in pursuit of its growth strategy. It knew its BSS could be its growth engine or biggest bottleneck.

It needed a realtime BSS to support flexible multiplay commercial models for existing and new business lines. Further, it required agile rollout of new functionalities



and features derived from a complete end-to-end continuous integration/continuous delivery (CI/CD) pipeline to react quickly to market needs and autoscale capabilities. Finally, it also needed to ensure a robust and resilient “always-on” environment and a dynamic commercial model with minimal upfront investment and “pay-as-you-grow” method, offering ensured and efficient cloud economics.

In highly competitive markets like 5G and IoT, fast time to market and an experimental approach would enable it to fail or succeed with minimal costs, time, and effort. 1Global wanted to roll out new innovative products at speed and always keep offerings relevant and up to date for its global audience.

Solutions

- 1Global's on-premise online charging system (OCS), along with testing and disaster recovery systems, was replaced with one OCS on Google Cloud.
- Optiva delivered **Optiva Charging Engine**, a real-time converged charging solution that is 5G ready and updated every 3-6 months through a CI/CD pipeline. 1Global's upgrade to the public cloud also included a multi-year support agreement with Optiva, which will further help 1Global maximize its value, monetization, and results. It estimates that the total cost of ownership (TCO) savings from the move to the public cloud will be approximately 60%.
- Total time from kickoff to production was just five months, one-fourth the industry standard.

The Result



Test automation - Optiva Test Framework

simplified verification, quality check project & operational rollouts, massive tariff testing - 7 million rate combinations.



50% reduction

in number of maintenance windows, non-critical activities can be done live at anytime.



TCO savings

of approximately 60%.



Opex reduction

test system spin up on demand in 2 hours utilizing current live backups.



Software installations

achieved 9 rollouts in 1 year.



Platform resilience

improved by 10X compared to bare metal.



Automated daily checks

5 min to complete, automated trouble ticket creation & escalation.



100% system integrity

as workloads are elastic, self balancing, self healing.



With Optiva Charging Engine built on Google Cloud, 1Global can accelerate our digital transformation and technological innovation journey. We needed our online charging system (OCS) to be agile and robust, support rapid expansion, and scale easily — all without diverting our IT operation's focus. CI/CD is a new approach in the traditional telecom industry, so it was important that Truphone gain trust in the new technology, adopt these tools and approach, and complete it on their side to ensure a fully automated acceptance process.

1Global