



Press Release

Sparkle Launches Genome, the New Integrated Platform for Network Automation, Programmability and Virtualization

Sparkle pioneer in the implementation of the Autonomous Network of the future

Rome, July 29th, 2019

[Sparkle](#), the first international service provider in Italy and among the top ten global operators, announces the availability of **Genome**, its new integrated set of platforms and tools for Network Automation, Programmability and Virtualization.

Deployed at Sparkle's core data centers in Catania (Italy) and Athens (Greece), as well as in Miami (Florida, USA), Secaucus (New Jersey, USA), with Milan (Italy) to follow later this year, **Genome.NFV** will progressively evolve Sparkle's traditional Physical Network Functions (PNF) into dynamic, cloud-native, highly resilient Virtual Network Functions (VNF).

The initial set of VNFs will be available to all new customers of Sparkle's [Global Signalling](#) and [LTE Diameter Signalling](#) for international roaming services. Existing customers will be progressively migrated to the new virtualized platforms, benefitting from increased resiliency and reduced latency, thanks to proximity interconnections. The progressive cloudification of Voice and Mobile Network Functions will continue throughout 2020 with the introduction of virtual IP Multimedia Subsystem (IMS) and virtual Session Border Controllers (SBC).

Genome.SDN is a modular, vendor agnostic, scalable and feature-rich network automation solution for physical and virtual networks. Featuring an automation workflow manager, it will assist network engineers to automate complex Method of Procedure (MOP) and Operations repetitive tasks, creating, visualizing, and executing automation workflows across the whole [Seabone](#) IP/MPLS backbone through a single interface. The solution is complemented by a planning tool allowing abstraction and modelling of the IP/MPLS network, supporting engineers to simulate availability and failover scenarios, automating traffic balancing and link optimization and building comprehensive forecast needs based on traffic trends, regional growth and other inputs. Genome.SDN will progressively extend to all Sparkle network domains, starting with the integration of [Nibble](#) Optical Transport Network, planned in early 2020.

"The relentless process of Hyper Automation of Industries requires service providers to deliver global network services at lightspeed satisfying extreme reliability requirements." said Daniele Mancuso, Sparkle's VP ICT Engineering. *"The introduction of Genome sets the path towards the Autonomous Network of the future, confirming Sparkle leadership in technological innovation."*

About Sparkle

Sparkle is TIM Group's fully owned Global Operator, first international service provider in Italy and among the top ten worldwide, with a proprietary backbone of around 530,000 km of fiber spanning from Europe to Africa, the Americas and Asia. Leveraging its global IP, Data, Cloud, Data Center, Mobile Data and Voice Platforms, Sparkle offers a full range of ICT solutions to Internet Service Providers, OTTs, Media and Content Players, Application Service Providers, Fixed and Mobile operators as well as Multinational Enterprises. Its sales force is active worldwide and distributed over 33 countries. Find out more about Sparkle at tisparkle.com

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