

SONATA addresses the significant challenges associated with the development and deployment of the complex services envisioned for 5G networks, targeting both the flexible programmability of software networks and the optimization of their deployments.

Core Objectives

Reduce time-to-market of networked services

SONATA offers a valuable SDK for service developers to easily create and deploy networked services on top of telecom operators' resources. It also promotes a DevOps model to integrate service development and management operations of virtual network functions.

Optimize resources utilization and reduce costs of service deployment and operation

SONATA Service Platform orchestrates and maps complex services to connectivity, computing and storage resources and automatically re-configures running services.

Accelerate industry adoption of software networks

SONATA supports the full lifecycle of a service and allows NFV integration and interoperability with already existing network management systems.

SONATA's channels

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🐙 sonata-nfv

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SONATA NFV: Agile Service Development and Orchestration in 5G Virtualized Networks



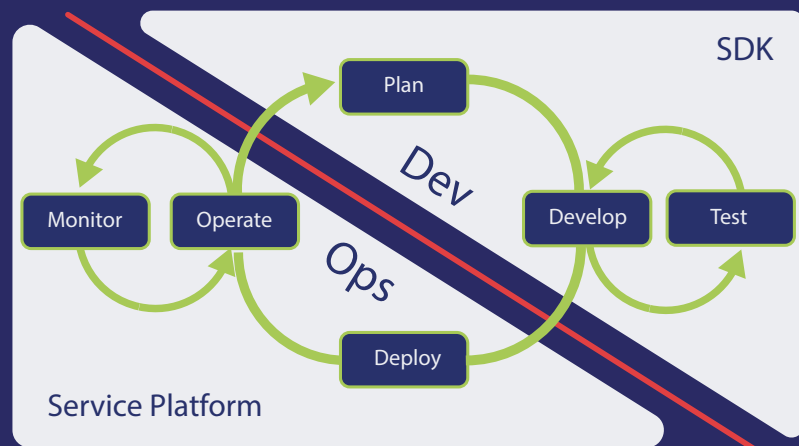
SONATA is an EU Horizon 2020 funded project part of the 5G PPP initiative.



SONATA proposes an **integrated NFV Service Platform** where the outcomes of its novel **Network Service Development Kit (SDK)** are automatically deployed with an **Orchestrator** that bridges the gap between telecom business needs and operational management systems:

- **SONATA's Network SDK** provides a valuable set of tools that assists developers in the development and testing of complex NFV services.
- **SONATA's Service Platform** manages complex network services throughout their entire lifecycle.

SONATA also implements a extended **DevOps model** that increases efficiency and collaboration, facilitates the launch of new services and accelerates the adoption of NFV technologies.



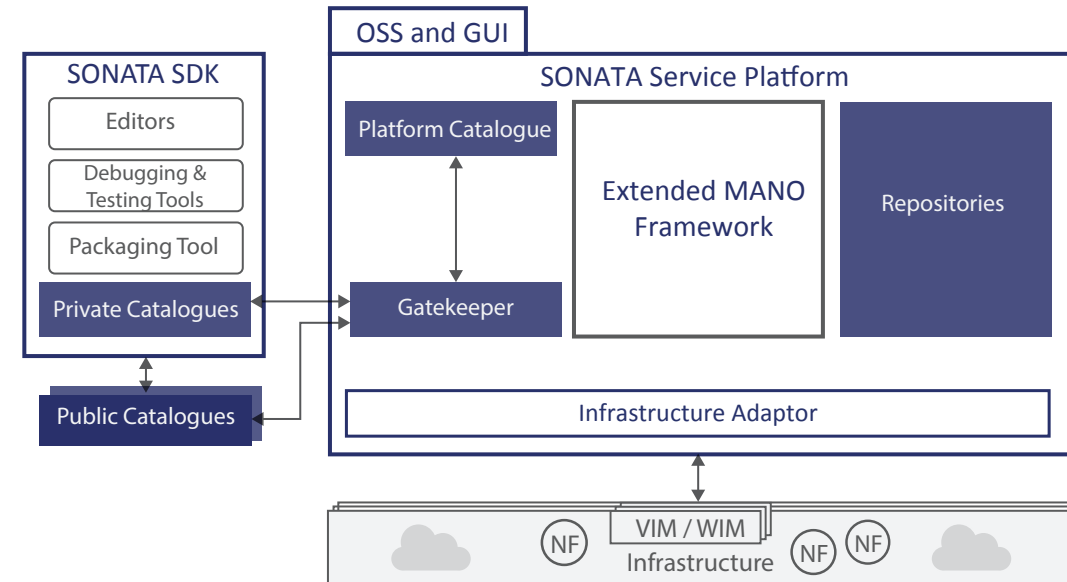
Key features

- First integrated approach in the NFV landscape that includes service composition, testing and orchestration.
- Invaluable tools to support developers in the creation and testing of services.
- Flexible architecture and modular design.
- Openness and multi-vendor compatibility.
- Customization opportunities depending on customer's needs, existing assets or future requirements.
- DevOps model for Telecom that enables the agile management of the full service lifecycle, increasing productivity and time-to-market.
- Multi-organizational by design enabling network operators the creation of an ecosystem with external and internal developers improving collaboration and a more competitive offering.

Milestones

- December 2016: First SONATA architecture
- July 2016: First integrated MANO prototype
- February 2017: First qualified SONATA release
- July 2017: Updated SONATA release

Architecture



Open Source

SONATA is an open source project. Its source code is published under Apache v2.0 licence, in a public GitHub repository, freely available for download and ready to be installed with full rights for adoption, modification and distribution. The project follows the best practices of open source software development, quality assurance and testing in order to produce high quality code.

Current code release and related technical documentation is available on the project website:

www.sonata-nfv.eu