

ORCHESTRATING NETWORK SERVICES USING SPA

SPA is a network management platform based on the principles of automation and orchestration. It provides a unified approach to managing all network services by standardising service management with consolidated single source of truth.

> orchestration journey. Scalable and containerised it can grow together with your skills. Start off with a single

Automating and orchestrating your services can help you manage your network in a flexible way and respond to on-demand user requests efficiently. Moving away from manual device configuration brings more insight and standardisation in your network.

Designed specifically for R&E network service providers, SPA paves the way of transforming your manual processes into a fully orchestrated system. It provides a unified way of managing all of your services thus eliminating duplicate solutions and complex and messy integrations.



And because it's designed specifically for you, SPA can help get you started on your components to learn the ropes, then add on as needed!



Lightweight

The SPA open-source implementation is based on a lightweight data model that enables flexible modeling of resources and services with a varying level of detail.

Composable

SPA is implemented as a loosely coupled system. Each SPA component can be used stand alone or they can be orchestrated together to realise more complex workflows.



Interoperable

SPA components expose standardised **OPEN APIS** compatible with the TM Forum specification thus making your system interoperable with others.





ne research leading to these results has received funding rom the European Union's Horizon Europe research and

INDIVIDUALLY AVAILABLE; FREE OPEN-SOURCE; OPEN API BASED

SPA COMPONENTS





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Define your own custom processes that will orchestrate the management components in your network. Leave the process management to the orchestrator.



SELF-SERVICE PORTAL

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Use a common, intuitive, web based GUI for the management of all of your services. Provide a one-stop shop and comprehensive dashboard in one.



ORDER MANAGEMENT

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Keep track of all internal and external requests, inquiries or incidents. Track their status at any point and obtain a high level overview of active and pending work.



SERVICE INVENTORY

Store all information regarding each service instance in your network following its status in real-time and describing its relationship to other service instances and resources.



USER MANAGEMENT

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Keep current and up to date records regarding your users, customers, partners and suppliers. Understand the links between organisations and define roles used for authorisation.



RESOURCE INVENTORY

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Use a one common inventory for all of your network resources, physical and virtual, logical and multi-layered. Define each resource characteristics and iterdependencies.



SERVICE CATALOGUE

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Describe all of your services in a structured common way. Use hierarchical description so that you can easily combine service blocks and define dependencies.



NETWORK ACTIVATION

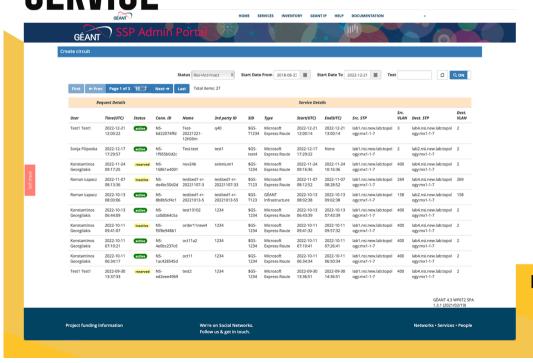
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Push the defined changes in the network using one common interface and a standardised service and resource activation description. Get notifications regarding the success of the actions.



USING SPA TO MANAGE THE GÉANT CONNECTION SERVICE

The GÉANT NOC uses the SPA Self-Service Portal to manage all circuits in the production network. The self-service portal provides a comprehensive view of all orders, service instances and resource inventory related to GCS. Using SSP circuits can be created, modified or terminated in seconds.



SPA implements automation and orchestration of the production GCS service in the GÉANT network in a flexible, standardised fashion.

Network configuration changes are pushed to the network via OpenNSA.

Learn more

https://wiki.geant.org/display/NETDEV/SPA

Contact Us

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