



NAOS

Automation Platform for RAN
Planning and Optimisation

version 2.1

Forsk

OVERVIEW

Naos is a scalable, service-oriented platform that enables the automation of wireless network planning and optimisation processes.

Naos provides mobile operators with a framework for designing and developing their own automated RAN planning and optimisation workflows.

Typical use cases include 5G site selection, business planning, process-oriented radio planning and optimisation, dedicated optimisation applications and more.

Naos supports 5G NR, LTE and multi-technology HetNets. It is fully compatible with Atoll and uses the same field-proven calculation algorithms.

Naos is deployable in the cloud as a web service remotely controlled through a REST API, allowing automation with multiple programming languages such as Python, C#, and C++.



Advanced RAN Planning and Optimisation Features

Naos provides automated network planning and optimisation services for 5G NR, LTE, and multi-technology HetNets radio access networks. It features a multi-technology network database, a powerful prediction calculation engine with advanced propagation models, multi-RAT ACP (Automatic Cell Planning) and Live (live-network data integration) modules. Naos functions can be integrated in enterprise applications and workflows as web services through an industry-standard REST API.

Supported Technologies



HIGHLIGHTS

Naos combines RAN planning and optimisation features with dedicated APIs and services in a unique framework enabling wireless operators to automate RAN planning and optimisation processes.



Advanced RAN Planning and Optimisation Automation Services

Naos delivers advanced RAN planning and optimisation services that can be used by enterprise applications. Naos services include propagation and coverage predictions, as well as advanced ACP (Automatic Cell Planning) and ARA (Automatic Resource Allocation) services, and access to live network data such as crowdsourced data and UE/cell/MDT traces.

Service-Oriented Platform and Industry-Standard REST APIs

Naos is based on a service-oriented architecture and delivers RAN planning and optimisation functions through industry-standard REST APIs, allowing wireless operators to get access to a complete set of RAN planning and optimisation services to be integrated in their own enterprise automation applications and processes.

Atoll Compatibility

Naos is fully compatible with Atoll and uses the same data structure and algorithms, allowing operators to get proven and consistent results across the entire RAN planning and optimisation chain, from advanced interactive processes to fully automated workflows.

Development Tools

Naos is deployable as a Windows or as a web service controlled through REST or COM APIs, enabling automation through multiple programming languages such as Python, C#, and C++. Naos deployed in the cloud can be remotely controlled through a REST API.



The Naos APIs expose sets of resources, objects, and methods related to radio network data, geographic data, propagation models, and coverage prediction calculations that enable operators to connect automated tasks into a cohesive workflow spanning network planning, design, and optimisation scenarios. The Naos REST API includes the Naos OpenAPI specifications, in the standard YAML format, that enable web application developers to automatically create server and client stubs using tools such as Swagger and OpenAPI Tools.

ABOUT US

Forsk is an independent software company providing operators and vendors with wireless network design and optimisation products.

Atoll, Forsk's flagship product, is a multi-technology wireless network design and optimisation software that allows operators to streamline planning and optimisation activities by combining predictions and live network data. With more than 9000 active licenses installed with 500+ customers in 140 countries, Atoll has become the industry standard for wireless network design and optimisation.

Naos is Forsk's automation and integration platform dedicated to wireless network planning and optimisation. Naos is a non-interactive server-based platform that enables operators to automate planning and optimisation processes as well as integrate radio planning and optimisation calculations with enterprise applications. Naos is fully compatible with Atoll.

Atoll and Naos provide operators with a comprehensive framework for integrated, interactive, and fully automated wireless network planning and optimisation. Atoll and Naos are available through Forsk's offices and technical support centres in France, USA, and China, as well as through a worldwide network of distributors and partners.

9500+ active licenses

500+ customers

140 countries

FORSK AT YOUR SIDE

Since the first release of Atoll, Forsk has been known for its capability to deliver tailored and turn-key radio planning and optimisation environments.

To help operators streamline their radio planning and optimisation processes, Forsk provides a complete range of implementation services, including integration with existing IT infrastructure, customisation, as well as data migration, installation, and training services.

Forsk also provides in-depth developer support on Naos APIs to help operators development teams design and develop RAN planning and automation applications.



Head Office

7, rue des Briquetiers
31700 Blagnac - France

Ph: +33 562 747 210

Email: sales@forsk.com

US Office

200 South Wacker Drive - Suite 3100
Chicago, IL 60606 - USA

Ph: +1 312 674 4800

Email: sales_us@forsk.com

China Office

Suite 302, 3/F, West Tower, Jiadu Commercial Building
N°.66 Jianzhong Road, Tianhe Hi-Tech Industrial Zone
Guangzhou, 510665 P.R of China

Ph: +86 20 8553 8938 Email: enquiries@forsk.com.cn