Sodalite

SOFTWARE DEFINED APPLICATION INFRASTRUCTURES MANAGEMENT AND ENGINEERING



SmartIDE

Modelling & IDE SODALITE Stack 1

www.sodalite.eu

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825480



SODALITE SmartIDE is solving





The Problem

Complex deployment model on heterogeneous infrastructures (too many considerations to be taken into account) without further assistance based on previous experiences



The Solution

DSL editor to develop a complex application deployment model, Reasoner to provide recommendations/validations, TOSCA application deployment model



The Value

Intellisense integrated process to develop complex deployment schemas taking into account different considerations such as performance and security



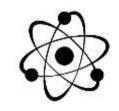




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SODALITE SmartIDE Benefits











Smart

It requires the least information from the experts by getting suggestions and validation from the Knowledge Base

Comprehensive

Based on a wide range of knowledge-base semantic reasoning-driven results

Configurable

The corresponding Experts can author AADMs, RMs, by getting validation and intelligent recommendations during design time

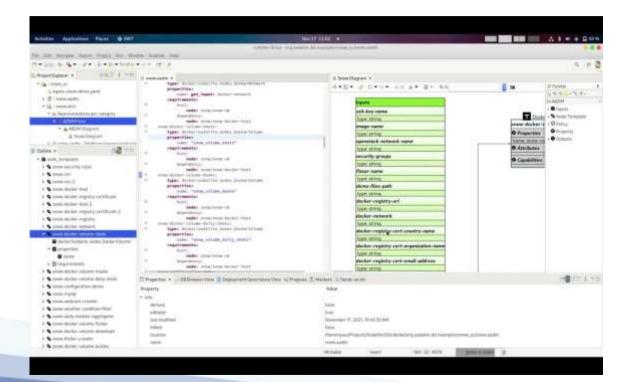
Meaningful

Provides inferred knowledge for application modelling possibilities, performance models, security policy, deployment policies, monitoring and refactoring

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SmartIDE Demonstration





See Full Demo at @SODALITE_H2020



You Tube

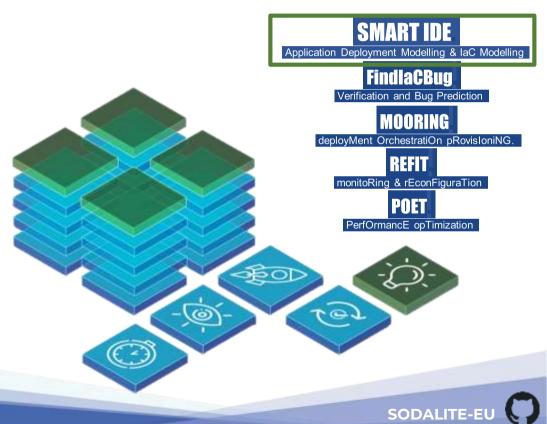


Context on SODALITE solution

Innovation

- ★ SODALITE IDE
- Knowledge Graphs and Semantic Reasoning
- ★ Platform Discovery Service
- IaC Blueprint Builder

IDE AND REASONER API BASED ON SOPHISTICATED KNOWLEDGE GRAPHS AND SEMANTIC REASONING



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SODALITE Business Plan



	Trial	Basic	High-End
	Testbed Access	Light SODALITE	Advanced SODALITE
	FREE	€	€€
Optimisation & Reconfiguration	\checkmark	\checkmark	\checkmark
Own Infrastructure Access	X	\checkmark	\checkmark
Configuration	\checkmark	\checkmark	\checkmark
Maintenance	X	€	\checkmark
Support & Training	X	€	\checkmark
Customisation	X	€	\checkmark

Premium Services €





SmartIDE Early Adopters



Environmental

Problem: Complexity of the pipeline deployment into on-premise data centers or external cloud; inexperience of PA domain experts in DevOps practices and data management.

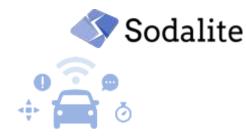
Solution: Abstract modeling hides the underlying technical complexity and code generation simplifies the creation of deployment artifacts and supports high level pipeline design and oneclick activation.



Digital Health

Problem: Complexity in the clinical case deployment into various infrastructures, on-prem data centers or even public or private cloud; inexperience of medical domain experts and DevOps practices.

Solution: A tool or a service that greatly simplifies the process of development of deployment code, such that the use case workflow will be efficiently executed on selected resources.



IoT Automotive

Problem: Application developers targeting multiple vehicles with different hardware configurations, heterogeneous computing resources.

Solution: Vehicle-agnostic application deployment modelling via a targeted application developer dashboard, using information from the platform discovery service and semantic knowledge graphs to dynamically derive Kubernetes deployment manifests.





The SODALITE Team







SODALITE has the potential to deliver solid innovations, validated in large pilots, towards the deployment and operation of the next generation of applications that will run on heterogeneous HPC and Cloud resources.

Nicolas Ferry





The SODALITE outcomes are an impressive next step to facilitate efficiently deploying and operating complex, adaptive software across the whole compute continuum.

Andreas Metzger









TALK TO US

Daniel Vladušič

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Shaping the Infrastructure Management and Application Deployment of Tomorrow!

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