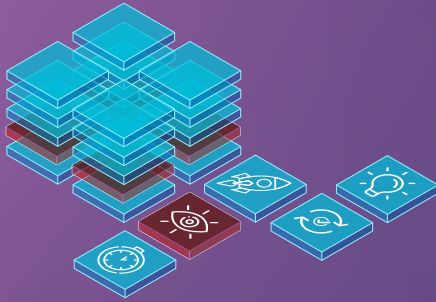




**REFIT**  
MONITORING & RECONFIGURATION

**Sodalite**



Lead Partner:

**Atos**

Contributors:

**Hewlett Packard Enterprise**

**IBM**

**JADS**

**ADAPTANT**

**POLITECNICO MILANO 1863**

## Monitoring data with SODALITE

Working with heterogeneous infrastructures involves monitoring data coming from different sources to select the most appropriate deployment options and to detect any malfunctioning of deployed applications. Current tools do not provide a single unified view to analyse traces of functional and non-functional requirements. SODALITE provides a set of tools to simplify decision-making processes based on monitored data.

## Heterogeneous monitored data sources

### Network Monitoring

Although there are several state of the art network monitoring tools, it is still hard to pinpoint which specific application is causing a network issue. Using per-connection network metrics instead of just per network interface can support users identifying the malfunctioning application.

### Heterogeneous infrastructures

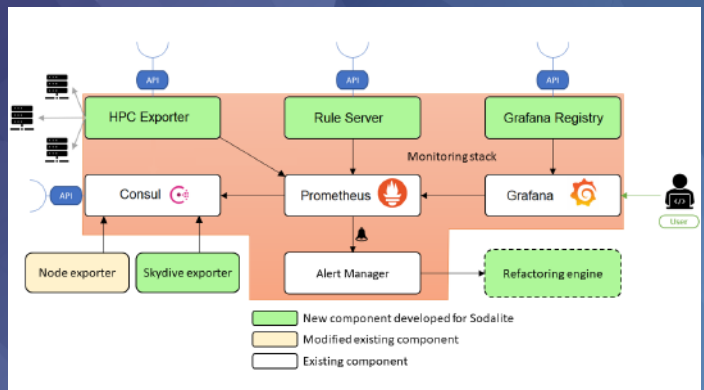
The rise of new applications to be deployed over the Continuum require a new set of functional and non-functional requirements coming from different sources of heterogeneous infrastructures. For ensuring the appropriate functioning of the application, it is of paramount importance to monitor these data in a simple manner to support decision-making processes.

### Dynamic resource discovery

Dynamic discovery is a real need for designing an appropriate deployment scheme for a given application. It is important to select the appropriate options by balancing requirements such as performance, cost, energy consumption or even security and privacy risks for a given context, including workloads and user location.

## How It Works

REFIT provides a single entry-point for dynamic monitoring of runtime data in multi-cloud and HPC clusters. It also offers with an alerting mechanisms that can be used to trigger the refactoring of deployments on several infrastructures, for ensuring the highest QoS level. Users will also benefit from of the a deployment configuration selection methodology, based on benchmarking, runtime monitoring, machine learning and software product line techniques to ensure proper deployment and/or re-deployment of their applications.



- [sodalite.eu](http://sodalite.eu)
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