

**Kepler 2.x Serpens Suite**  
**<http://serpens.psnc.pl>**

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This document contains introductory material to Serpens  
modules.

This paper covers Serpens 6.2.1 release

February 21, 2011

## **gLite**

From official website <http://glite.cern.ch/>:

*gLite (pronounced "gee-lite") is the next generation middleware for grid computing. Born from the collaborative efforts of more than 80 people in 12 different academic and industrial research centers as part of the EGEE Project, gLite provides a framework for building grid applications tapping into the power of distributed computing and storage resources across the Internet.*

In order to use Serpens module for gLite, one needs an access to a Roaming Access Server. It is a middle layer software between grid infrastructure and client libraries/applications. RAS has its own configuration which lets administrators define options and infrastructure specific features. It has all grid certificates and software installed. RAS communicates with grid services and manages connections to storages and workload managers.

## **UNICORE**

From official website <http://unicore.eu>:

*UNICORE (Uniform Interface to Computing Resources) offers a ready-to-run Grid system including client and server software. UNICORE makes distributed computing and data resources available in a seamless and secure way in intranets and the internet.*

Serpens module for UNICORE works as a standalone project and does not require access to Roaming Access Server. Actors remotely call a UNICORE registry and directly communicates with UNICORE machines.

## **Vine Toolkit**

From official website <http://vinetoolkit.org>:

*Vine is a modular, extensible Java library that offers developers an easy-to-use, high-level Application Programmer Interface (API) for Grid-enabling applications. Vine can be deployed for use in desktop, Java Web Start, Java Servlet 2.3 and Java Portlet 1.0 environments with ease. Plus Vine supports a wide array of middleware and third-party services, so you can focus on your applications and not lose focus on the Grid!*

This Serpens module requires a Roaming Access Server to work properly.

## **Acknowledgments**

This research has also received funding from the European Community's Seventh Framework Program (FP7/2007-2013) under grant agreement n°211804 (EUFORIA).