

VL-e PoC Release 1 Environment

Introduction and disclaimer

This document represents the state of discussions within the VLeIT team technical and as amended by the VL-e SP leaders as of November 25st, 2005. It has not yet been formally approved by the Project and should still be considered as a draft.

Proposed Contents of PoC R1

Software that is to be part of the Proof-of-Concept distribution and environment of VL-e should have the following characteristics:

1. There is a contact person/group within VL-e that can organize 'support' for the software
2. It is required or useful for more than one group within the VL-e project
3. The software should have been certified and validated on the Certification test bed

Table 1 below lists the proposed tools and services considered for inclusion in the 1st PoC Release. The VLeIT Expertise Level in the table is an indicator for the level of expertise that is available within the VL-e Integration Team for a particular VL-e component. The level of expertise was added to the PoC documentation to manage the users' expectation on the level of support that they will receive. The VLeIT will try to provide full support for all software components included in the PoC on a best-effort basis, but for some components support will be limited as the VLeIT also does not (yet) have knowledge about all of the components.

The possible levels of expertise are:

New: the software is new to the VLeIT and hence the team knows little or nothing about installing, configuring or using the software.

Intermediate: the software is known to the VLeIT, a team member has some experience with installing, configuring and/or using it. None of the team members considers him or herself an expert (yet), thus complex technical questions will take time to investigate.

Full: the software is well known to members of the VLeIT. A thorough understanding of both configuring and using the software is available. Answering complex technical questions should, on average, take less time than for the 'Intermediate' level.

Table 1 Software component part of the Proof of Concept Release 1

Area	Component / version	Contact	VLEIT Expertise Level
OS	Red Hat Enterprise Edition R3	SARA/NIKHEF	Full
	PoC installer	SARA/NIKHEF	Full
Middleware	Globus Toolkit version 2.x as supported by Virtual Data Toolkit project	SARA/NIKHEF	Full
	Current grid services from LCG, EGEE	SARA/NIKHEF	Full
	Globus Toolkit 4.0 (WSRF components)	SARA/NIKHEF	Intermediate
	Storage Resource Broker (version 3.3.1)	SARA/NIKHEF	Intermediate
Integrative	Three systems initially selected <ul style="list-style-type: none"> • Ptolomy based Kepler • WS based Taverna • Triana 	Zhiming	New
	OGSA-DAI as installed with GT4 IBIS (version 1.2)	Nader Cerial	New Full

Tools & Libraries	ParaView (version 2.2.1)	RobertB	New
	VTK (version 4.4)		
	MESA (version 6.4 with GLUT)		
	ITK (version 1.4)	RobertB	New
	FSL (version 3.2)	RobertB	New
	MRICRO (version 1.39)	RobertB	New
	java SDK 1.4.2.x deployment/install	SARA/NIKHEF	Intermediate
	octave (version 2.1.69)	Breandán	Full (no gui)
	• MPItb (v2.1.6x)		
	• MatLabMPI (v1.2)		
	lamMPI (version x.x.x)	SARA	Full
	LUCENE (version 1.4.3)	Machiel	Full
	Ant (version 1.6.2)	Piter	Intermediate
	SWI-Prolog (version 5.4.7-190)	Machiel	Full
	R	Frans	Full
	Grid Weka (version 3.4.2)	Machiel	Intermediate
	Nimrod client software (v3.0.0)	Breandán	Intermediate
GAT	André	Full	
Sesame (client)	Machiel	Full	

Some services and tools cannot be shipped as part of the PoC *Software Distribution*, but will be available as site-specific installations on selected PoC infrastructures (in particular the *Matrix* cluster at SARA). These tools and services are described in Table 2.

Table 2 Additional software components not part of the Proof of Concept software distribution but that will be available on the central PoC facilities

• VLAMG (version 1.4) on <i>Matrix</i> cluster	Piter	Full
o VIMCO on services.vl-e.nl		
• GForge on services.vl-e.nl	Maurice	Full
• Nimrod server/portal	Breandán	Intermediate
• R SOAP server for job submission	Bart	New
• GForge on services.vl-e.nl	Maurice	Full
• Mailing lists on lists.vl-e.nl	Maurice	Full
• Matlab (subject to licensing) on <i>Matrix</i> cluster ¹	-	-

Packages and work proposed for PoC R2

Not all components proposed for Release1 have been selected for the release. Work on the following items are proposed to be deferred to Release 2, pending further discussion within the Project and the VLeIT team:

- Koala, define a use case in support of an application domain
- Re-designed services from the current VLAM RTS and PFT components
- Build up knowledge about OGSA-DAI by db-support group
- R support to the extent requested by Bio diversity and Bio-Informatics
- A Web Service that is able to wrap an existing legacy analysis tool, in particular the EMAN analysis code used by Electron Microscopy Utrecht and interesting for *Dutella*.
- Generic part of the Interface to Web Services from the chosen work flow environment
- Determine the level of support for Matlab that can be given for VL-e

Some of these services and components are available as site-specific installations on selected PoC core infrastructure facilities during the lifetime of Release 1.

¹ A limited number of licenses are available on Matrix. Details on request.

