

State of VDT 1.3.8

VDT 1.3.8 has now been released—just barely in time for this OSG Integration Meeting. So what is new?

New Supported Platforms

We have added support for three new platforms. The x86-64 platform was added to support OSG sites that have requested it. The IA-64 platforms were not added at OSG's request, but to support a potential new customer, TIGRE. The new platforms are:

- RedHat Enterprise Linux 3 on x86-64
- RedHat Enterprise Linux 3 on IA64
- SuSE Enterprise Linux 9 on IA64

Please note: we do not yet have a 64-bit version of PRIMA yet. You can force the 32-bit version to be installed, but then you need to do some extra work to everything to work. Talk to Alain if you want to know more.

New Software & Features

There are new scripts to publish servers (especially VOMS servers) to jClarens.

pyGridWare has been added. This is like PyGlobus, but for the web services version of Globus.

There is a new package called Job-Environment, which will look for OSG environment variables in grid3-info.sh and push them into a job's environment. It is not installed by default, because it is specific to OSG.

Several patches to Globus have been added:

- A patch that will allow Globus to run as the daemon user, because it will allow Globus's persisted data directory to be in a location that we choose. Unless the globus user exists, the VDT will now set up the Globus web services container to run as the daemon user.
- Two patches to allow the upcoming web-services version of PRIMA to work.
- A patch to fix quoting in Condor submission files

Apache now accepts Globus's new-style and RFC-compliant proxies.

We've updated gums-host-cron with a new version, contributed by John Weigand, to query GUMS and generate forward and reverse mapping files. It should be much more reliable than previous versions.

The tests that are shipped with Globus are now included in the VDT.

Bug Fixes

The main index for the Apache server shipped with the VDT will no longer lose track of links to services.

doegrids-cert-request will now work properly if certs are installed local to the VDT install.

Several users collaborated to provide a new configure_monalisa. This fixes several problems present in VDT 1.3.7.

The VOMS server will now run as the daemon user instead of root.

EDG-CRL-Update supports the new wget (1.10.2 Red Hat modified) contained in updates to RedHat Enterprise Linux and Fedora Core.

Upgraded Software

CEMon 1.6.0 (INFN prerelease from 2005-11-15)	MyProxy 3.2
Condor/Condor-G 6.7.13	SRM Tester 1.1
Java SDK 1.4.2_10	UberFTP 1.17
jClarens 0.6.1	Virtual Data System 1.4.3
MonALISA 1.4.4	VOMS Admin 1.2.10

Other Changes

The packages required for building applications that link against Globus has changed. Instead of installing Globus-Core, you now install Globus-Base-SDK.

KX509 is now supported on Debian Linux 3.1 (sarge).

In order to support pyGridWare the VDT now installs (and adds to the path) a new Python binary if your native python is below version 2.3.0.

Known Problems

Globus Toolkit 4

Globus 4 is run in its own container, not within Tomcat and is therefore running on a non-standard port: 9443 instead of 8443. If you wish to change this, just edit the globus-ws init script.

If you have Globus configured to submit jobs to Condor, the job submission will fail unless you have a condor_config file in a standard location (`/etc/condor/condor_config`, `~condor/condor_config`). If CONDOR_CONFIG needs to be set to find the condor_config file, it won't be set unless you edit the condor.pm file by hand. This is because the portion of Globus that does the job submission clears most of the environment before the job submission. We hope to resolve this soon in collaboration with the Globus folks.

VOMS

The VOMS server is not included on RedHat 7 because it requires perl 5.8, where RedHat 7 uses the 5.6 series. It is unlikely that perl 5.6 support will be added in the future.

VOMS Admin 1.2.10-r0 contains a known bug for which we install a workaround. However, the workaround disables the automatic request clean-up feature. We hope to release a new version of the VDT with a new, fixed version of VOMS Admin before any automatic clean-ups would occur, so we don't expect this to cause problems.

VOMS 1.6.7 does not work with user proxies from a Kerberized CA, such as the one used at FermiLab.

gLite CE Monitor

The gLite CEMon is not supported on RedHat 7 and our current build does not run on Debian Linux or Fedora Core 4. We hope to add Debian and Fedora support in a future release, but RedHat 7 support is doubtful.

There is a conflict between CEMon and some other (unknown) package in the VDT, such that CEMon fails on some platforms when installed as part of the full VDT. We hope to fix this for VDT 1.3.9

Also, CEMon expects to find a LCG Generic Information Provider script at `/opt/glite/etc/glite-ce-ce-plugin/glite-ce-info`, as documented in the CEMon instructions. If you install the VDT in any location other than `/opt`, and you want to use CEMon and the LCG GIP, you will still have to create the glite-ce-info symlink at the above location.

MDS

Globus does not support MDS on 64 bit platforms. Our 32 bit server build works on x86-64 machines, but the client only works when authentication is disabled (`-x flag`). Clients from 32 bit machines can authenticate to a 64 bit server without problems.

Upcoming VDT Releases

Plan for VDT 1.3.9

VDT 1.3.8 was a bit rushed. There are a few too many known problems for our liking. In addition, we expect that people here will find more problems with VDT 1.3.8 while installing it.

Therefore, our plan is to release VDT 1.3.9 within two weeks of the OSG Integration Meeting. Our goal is that this will purely be a bug fix release. No major changes will occur, but it will simply become more suitable for OSG.

Our current to-do list can always be found online at < <http://vdt.cs.wisc.edu/internal/to-do.html>>, but right now the high priority items for VDT 1.3.9 are:

- Ticket #1096: Fix GRAM reporter problem (incorrectly using GRAM reporter when it's not available)

- Some GUMS config file has the wrong ownership sometimes (when installing full VDT versus just GUMS).

- Disable MonaLisa automail. Ticket 1207

- Install CA certificates from IGTF 1.0 (Not versioned with VDT 1.3.9, but same timeline.)

If we have time, we'll also:

- Get basic support for AIX 5.2.

- Fix Nest (it may be broken)

- Run Globus in Tomcat

- Add NMI build and test software to the VDT, configure, including MySQL.

- Do nightly testing with Globus's tests.

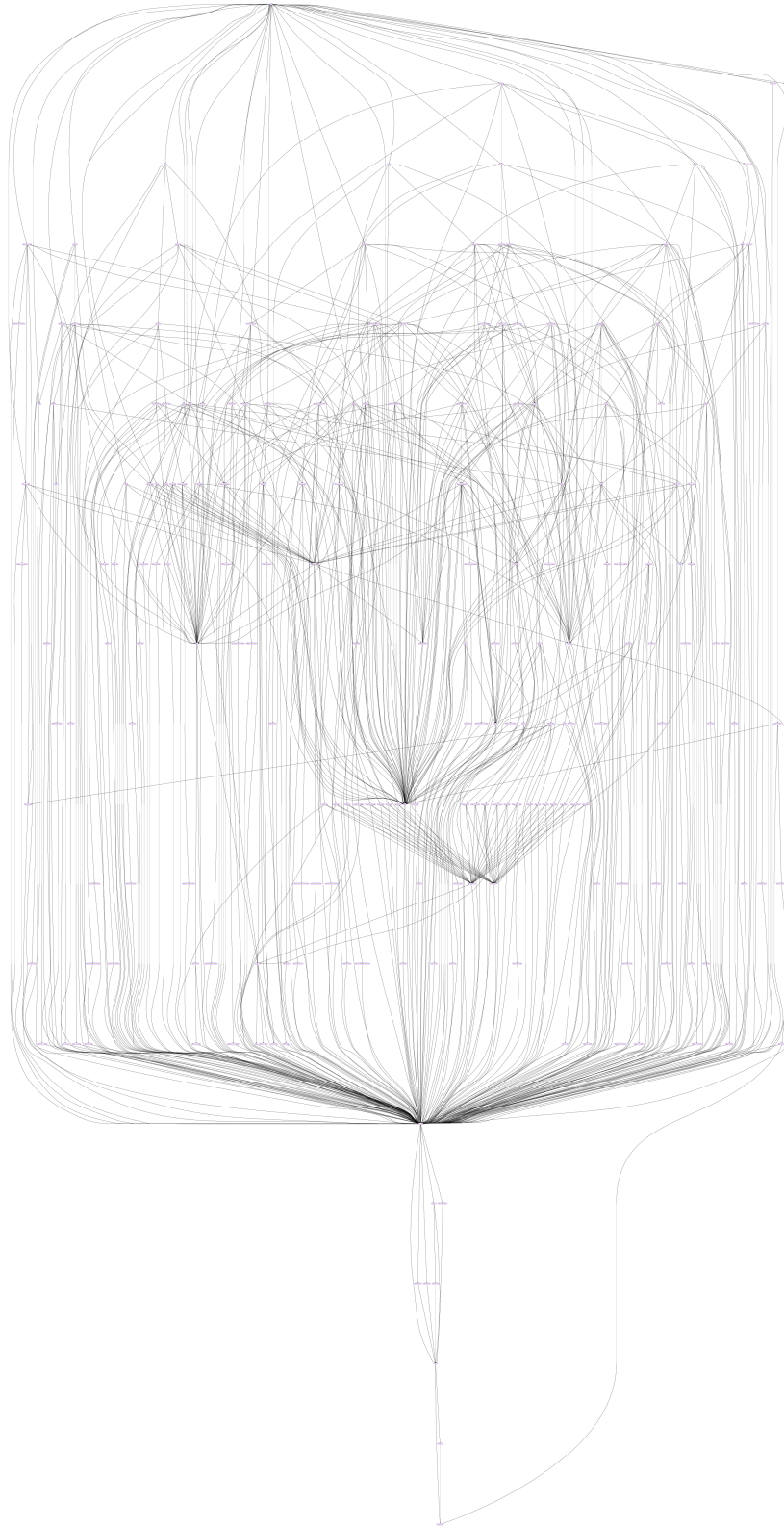
Plan for VDT 1.3.10

- Fix all known problems.

- Make all users happy.

- Bring peace to the world.

Package Dependencies for the entire VDT



Package Dependencies for Condor

