

gLite release process

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gLite tools

- ETICS is the SW configuration management system
- Savannah is the bug tracking system
- YAIM is the tool we use to configure gLite



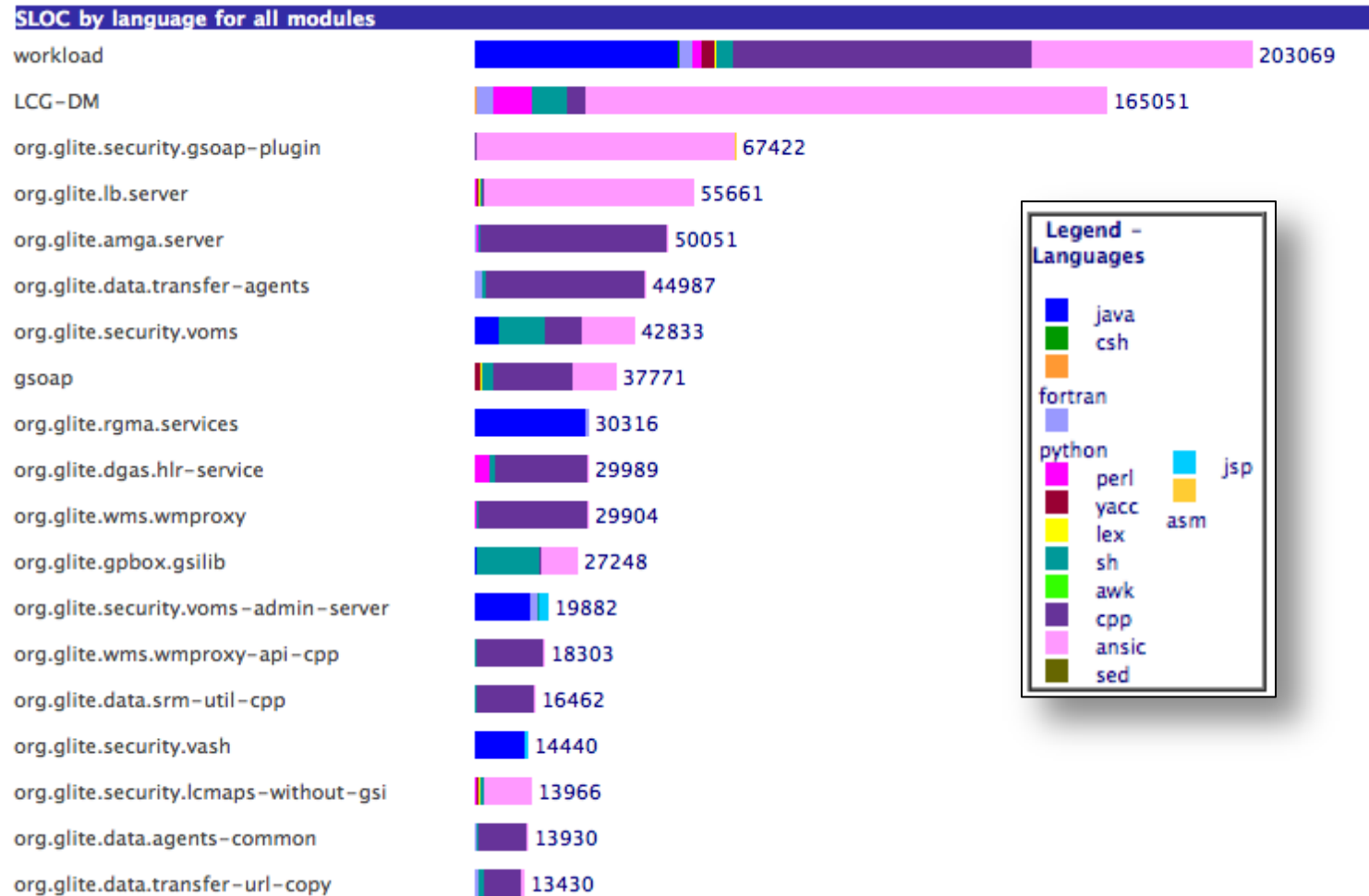
The image shows a composite of three screenshots related to gLite tools. On the left is the ETICS web portal, displaying a navigation menu with 'Welcome', 'Submissions', 'Configuration', 'Repository', 'Administration', and 'Requests'. The main content area shows a 'Project' tree on the left and a 'Workpace' listing various gLite components and their versions. In the center is a terminal window showing the installation of 'gLite Middleware v. 3.2.0' on a CentOS system, including commands for adding yum repositories and installing the software. On the right is the LCG Savannah bug tracking system, showing a search for 'gLite Middleware - Bugs: Browse Items'. The search results table lists 65 matching items, with columns for 'Item ID' and 'Summary'. The first few items are:

Item ID	Summary
#63381	/etc/services not properly updated in /opt/glite/yaim/functions/config_sge.sh
#63372	SGE_cluster_name variable takes the value p+SGE_QMASTER_PORT
#63374	CREAV sandbox dir creat on program should not attempt creation of parent directories
#63371	CREAV sandbox directory should not be in /opt
#63382	When a job is canceled the "Current Status" remains in "REALLY-RUNNING"
#63381	It is not possible resume a job in hold/suspended status
#63324	LCMAPS excessive logging
#63751	inconsistency in VMSSLB variables mentioned in docs and required by YAIM
#63744	yaim install gite-WAVIS gite-LE: sh: kloc: command not found
#63738	[yaim.coe] Small patch for zen users and gite profiles
#63737	SGE accounting logs can have multiple entries per jobid
#63732	[yaim.coe] Java DB classes: oracle.jdbc.driver: oracle
#63731	ELCancers cannot handle job ids longer than 10 items in the STARTNOTIFYJOBLSL command
#63714	Ads support for issuing Distribution Point CR...eters onto the Java APIs
#63712	[LCG-UTIL/compile_checksum] CRC32/ADLER32 need zlib!
#63687	LSF dynamic information: providers should share shares
#63680	Change config_torque_client to use the EPEL default location
#63674	gite-svart-client: WR_Grid_Info test doesn't work for CREAM
#63562	request: Maui build with IDLEJOBDEPTH patch
#63526	[yaim.coe] Additional parameters should be set during GSI PEP callout configuration
#63516	Checksum method flag does not propagate from CLI to FTA in Use Case 2
#63512	[yaim.coe] Review return from variable check function
#63471	gobus_gimtp_server error message not very helpful
#63437	org.gite.data.agents-common fails to build if /opt_glibus_essentials is a runtime package
#63388	CREAV jar: removal of locks should be retained in case of failure
#63386	[yaim.coe] Architecture selection fails in config_tcas_omeps_gi4 for G66 middleware on x86_64 systems
#63372	voms-admin info provide: is called 'multiple times'
#63286	LE does not differentiate between local disks on 32/64-bit systems
#63252	WHCMN: Group buttons & add acct informati on
#63251	WHCMN: Vc fields display in a tabs and unque transaction
#63250	WHCMN: Source and dest nation editable through specific acti on
#63245	WHChannelManagement: Handle the type of the channel
#63247	WHChannelManagement: direct contact with the server
#63200	parallel rhomc-nal: create WH as MPI enables CREAM CF

Brief history of gLite - Past, present and future

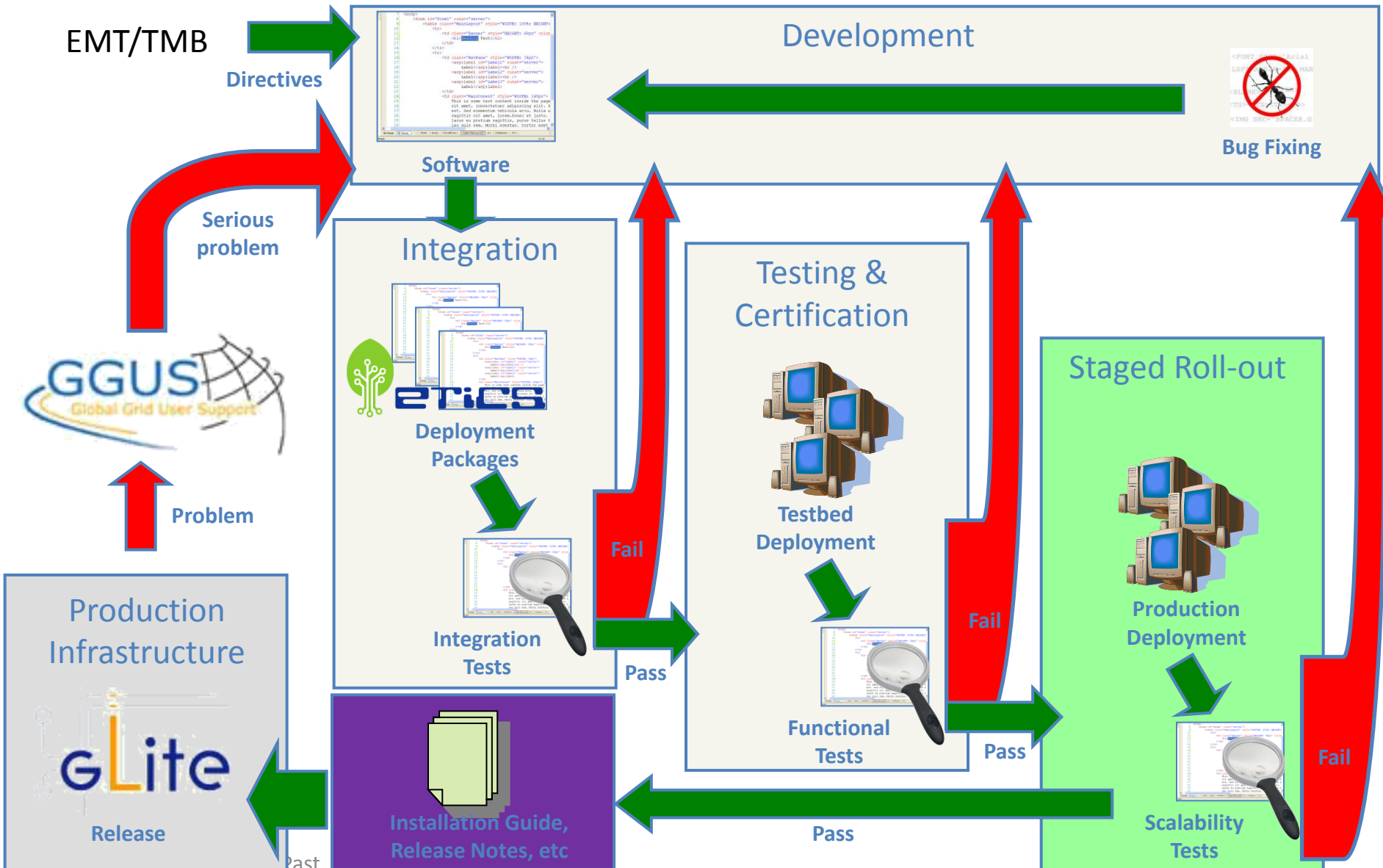
gLite tools

- CVS is the Control Versioning system



Show gLite release pages !

gLite development Process



Things to improve

- Creation of a Savannah patch
 - Developers need to manually add
 - The list of new packages (and find out which ones they are!)
 - The ETICS configurations
 - They forget packages or put the wrong ETICS configuration
 - This is only detected when preparing the release
- Monitoring other patches affecting your metapackage
 - This twiki tries to help:
<https://twiki.cern.ch/twiki/bin/view/EGEE/InternalPatch>
 - But it's easy to make errors, forget to update... and it has a maintenance overhead!
 - How can PTs know what other changes have been done?
- **AUTOMATION is crucial to save time and avoid human errors**

Lessons learned

- Release notes
 - They are VERY important
 - It's not a negligible work and requires time
 - Expert people should be involved in the process
- Repositories
 - They seem to be easy to manage BUT
 - gLite has a lot of packages
 - When automating the creation of repositories you may forget a package
 - It's worth writing scripts to run deployment tests after the update of a repository
 - We didn't test tarballs or rpm lists and bugs were only discovered in production. Maybe it's worth testing them as well.