

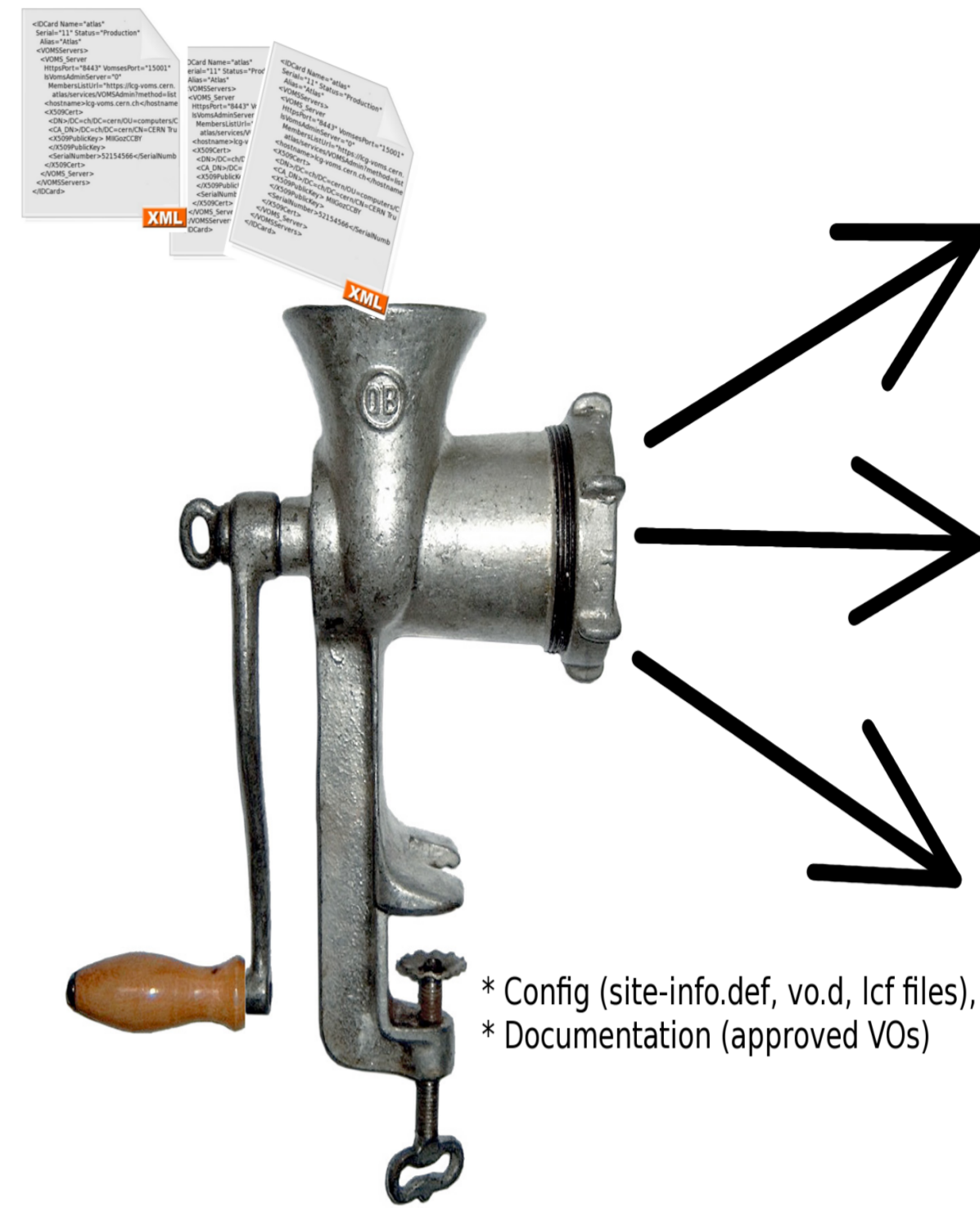
The **VomsSnooper** tools provide an easy way to keep documents and sites up to date with the newest VOMS records in the Operations Portal, and removes the need for manual edits to security configuration files. The tool supports a set of use cases that include:

**Make VOMS Records** - This allows the site admin to generate VOMS records automatically without manual transcription or proof reading.

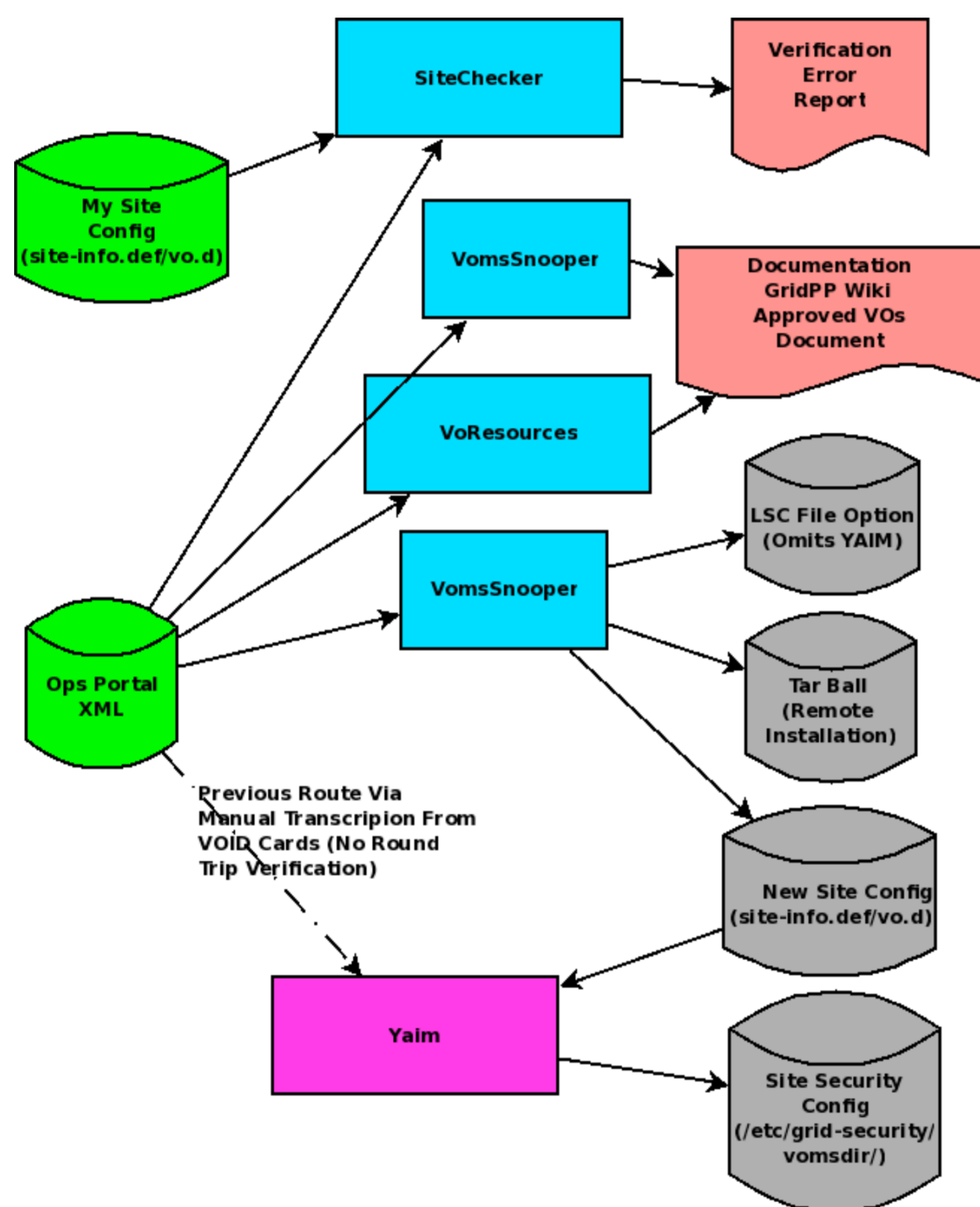
**Check Site VOMS** - This provides a means to check a site's correspondence with the data from the Operations Portal.

**Update Approved VOs Document** - This provides a means to keep the Approved VOs document current with regard to the newest XML available from the Operations Portal.

**Make groups.conf** - This is used to create the groups.conf file, which is also used to configure grid security.



\* Config (site-info.def, vo.d, lcf files),  
\* Documentation (approved VOs)



### Operational Impact

The VOMS records for GridPP Approved VOs were available from two sources that were not necessarily consistent, i.e. the Operations Portal and the GridPP wiki. The first use case for VomsSnooper was to periodically synchronise the data on the GridPP wiki from the canonical source of the data in the Operations Portal. The Approved VOs wiki now receives reliable, accurate, semi-automatic updates on a weekly basis, and long-term staleness has been eliminated. Sites can now update their records from either data source.

Once a process was developed to automatically extract and format the VOMS records from the XML, it was apparent that the intermediate step of reading the Approved VOs wiki could be eliminated altogether. To this end, use cases were developed to both check the VOMS records at any site, and create new records directly from the Operations Portal. Sites who choose this approach can keep their records up to date in a semi-automatic manner, without reference to the Approved VOs wiki, and without manual edits to the security configuration files.

Once the VOMS records have been installed using VomsSnooper, site security can be automatically configured using Yaim or some other tool.

### Some Technical Details

Languages: Java, Perl, bash, XML; IDE: Eclipse; Source control: Git/Github; Operating systems: SL5, SL6; Process model: Agile; Design: OO/UML; Libraries: java-getopt, SAXParser; License: Open Source; Packaging: RPM; Distribution: SysAdmin yum repository

### Performance

Formal tests of 35 VOs showed that their site-info.def/vo.d records complied precisely with the canonical XML data in the Operations Portal.

In informal studies, several discrepancies were found at each of three sites that used SiteChecker to verify their manually maintained VOMS settings. Positive remarks included "VomsSnooper worked really well, all done in an hour or so" and "One particularly neat thing it got right is that we have a local VO and it spotted it fine". Criticisms were valid but mostly stylistic and will be addressed in future versions.

URL: [http://hep.ph.liv.ac.uk/~sjones/VomsSnooper\\_Tools.html](http://hep.ph.liv.ac.uk/~sjones/VomsSnooper_Tools.html)  
Download: <http://www.sysadmin.hep.ac.uk/rpms/fabric-management/RPMS.vomstools/>

