

quattor – summary for WP6

German Cancio
CERN/IT

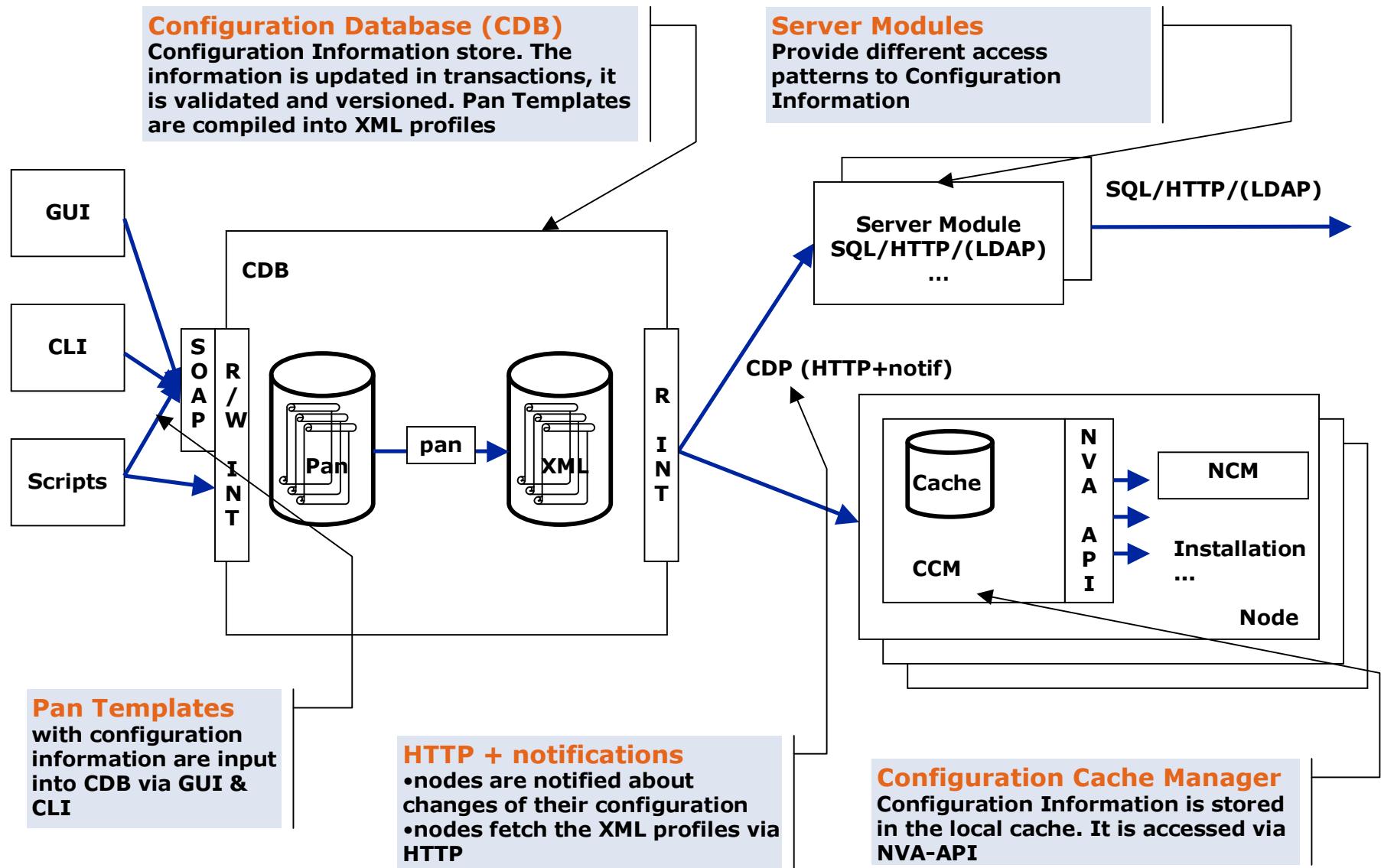


<http://quattor.org>

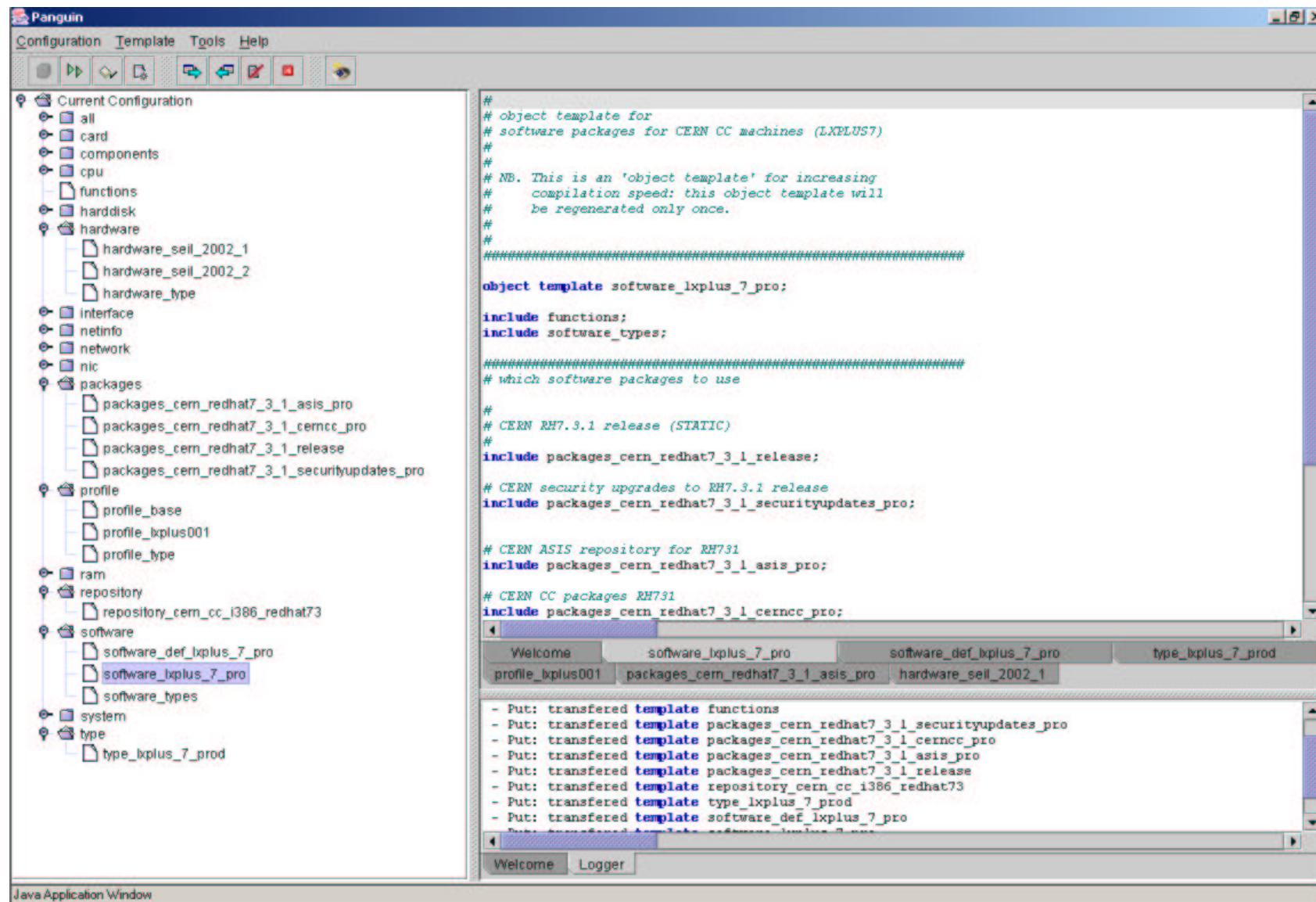
quattor architecture - overview

- ◆ Configuration Management Infrastructure
 - **CDB** (Configuration Database)
 - **CCM** (Configuration Cache Manager)
 - Server Modules (SQL, XML Replication)
 - CDB-GUI/CLI
- ◆ Node configuration and Installation
 - **AII** (Automated Installation Infrastructure)
 - **NCM** (Node Configuration Manager)
 - Software Repository (**SWRep**)
 - Software Package Management Agent (**SPMA**)

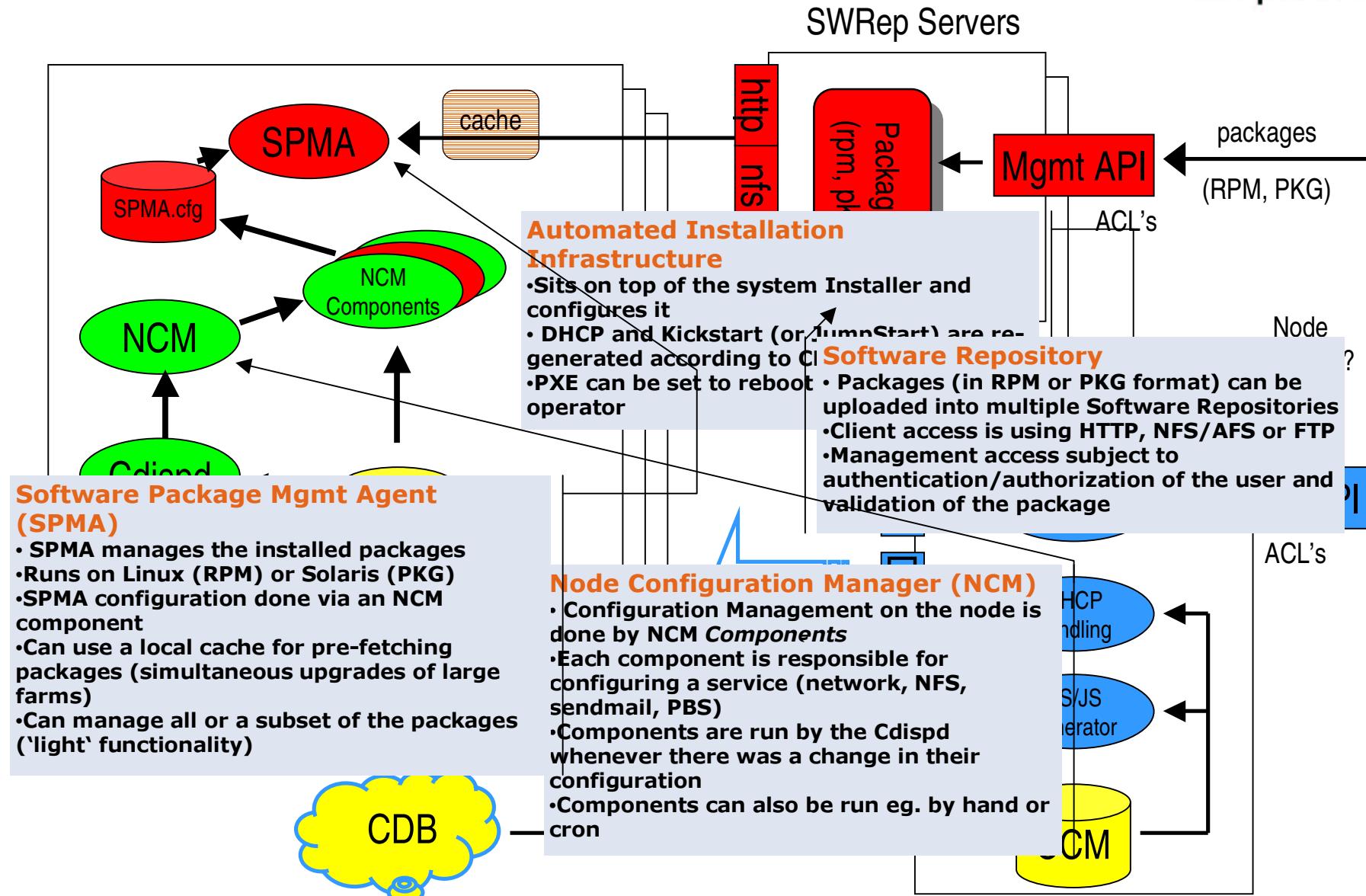
Config Mgmt Infrastructure Design



penguin GUI for managing/editing PAN templates



Node install / config design



Status

- ◆ CDB and CCM:
 - Production release, used at CERN
 - SQL module being tested
- ◆ AII:
 - Beta version, needs more testing
- ◆ NCM:
 - First public release of framework
 - Pilot deployed at CERN – should replace SUE in next RH release
 - Base components started ... but still far from having what is needed for installing an EDG testbed (>60 components)
- ◆ SWRep and SPMA:
 - Consolidated production version, used at CERN (>1300 nodes)
 - Beta plug-ins for Solaris

Differences with EDG-LCFG

- ◆ New and powerful configuration language
 - True hierarchical structures
 - Extendable data manipulation language
 - (user defined) typing and validation
- ◆ Ensure configuration consistency
 - Transactional checks
 - Internal version control
- ◆ Portability
 - Plug-in architecture -> Linux and Solaris
- ◆ Enhanced components
 - Sharing of configuration data between components now possible
 - New component support libraries
 - Native configuration access API (NVA-API)
- ◆ Stick to the standards where possible
 - Installation subsystem uses system installer
 - Components don't replace SysV init.d subsystem
- ◆ Modularity
 - Mostly independent modules
 - "light" functionality built in (eg. package management)
- ◆ Removed non-scalable protocols
 - NFS mounts not necessary any longer
- ◆ Enhanced management of software packages
 - ACL's
 - No 'header' files

- quattor homepage: <http://quattor.org>
- This morning's tutorial material:
<http://quattor.org/documentation/tutorials>