

Jordi Bruguera i Cortada jordi@grn.es Jordi Massaguer i Pla jordi.massaguerpla@opensuse.org

21/02/08



- What's Linkat GNU/Linux About ?
- Linkat GNU/Linux Features
- Community and Services
- Future Directions
- Demo
- Q&A

A **Generalitat de Catalunya** – Department of Education sponsored project, consisting of:

- An education oriented GNU/Linux distribution featuring:
 - vendor long term support
 - up to date software versions
 - well integrated with opensource community
 - catalan language a must
 - open forge of development and software repositories
 - four flavours: *live*, *server*, *client* and *home*
 - three levels of technical support for schools
- An Internet portal. Visit it at http://linkat.xtec.cat



So we need:

```
-vendor long term support
( we have SLED10 from Novell )
```

Then we take best of each world combining:

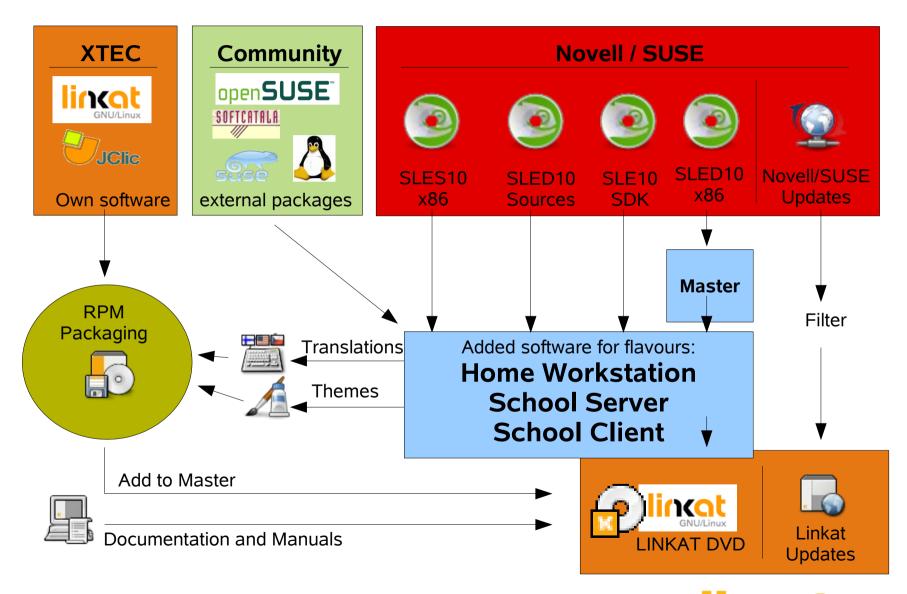
- A **SLED10 core** (kernel + core components)
- Latest applications from OpenSuSE repos



Software policy:

- -Get the most from educational software
- -Opensource and GPL whenever possible except for:
 - -Java
 - -Acrobat Reader
 - -RealPlayer
- -Prefer older translated against newer untranslated
- -Prefer supported vs. unsupported







Linkat timeline:

```
10/2005 - Project started
```

09/2006 - Linkat 1.0 (based on NLD9+SP2)

06/2007 - Linkat 1.1 (improvements + software)

12/2007 - Linkat 2.0 beta 1 (based on SLED10+SP1)

04/2008 - Linkat 2.0 final



What has been done?

Different teams working in parallel on:

- Client / Server configuration School layout
- Translations and Documentation
- Branding and themeing
- RPM packaging
- LTSP
- YaST modules





- What's Linkat GNU/Linux About?
- Linkat GNU/Linux Features
- Community and Services
- Future Directions
- Demo
- Q&A

Linkat Main Features

3 desktops provided: - Gnome (supported)

- KDE

- XFCE

3 supported languages: - catalan

- spanish

- english

3 installation methods: - autonomous

- school client

- school server

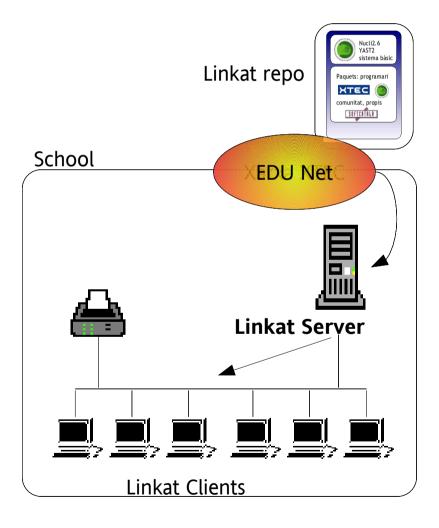


Linkat Main Features

- Installable DVD and LiveDVD
- Install from Windows (thanks to Instlux!)
- LTSP capable
- Focused on Education
- Accesibility (festival voices)



Client / Server configuration - School model



Auth model:

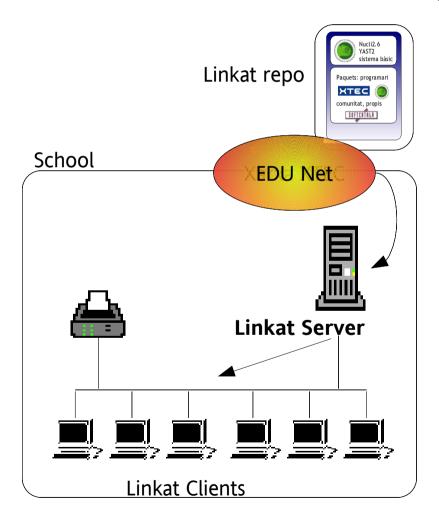
2 **local users**... argo / alumn01

... and an **LDAP server** (central auth)

- **home directories** on the server
- automounted with **NFS** and **autofs**



Client / Server configuration - School model



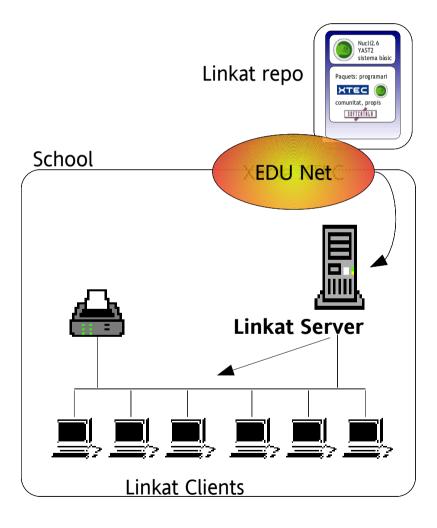
Shared folders:

[T] (work folder, samba) everybody: R/W -samba-

[P] (teachers folder - samba & NFS)
 teachers: R/W
 others: none



Client / Server configuration - School model



Distributed repos & updates

1st stage:

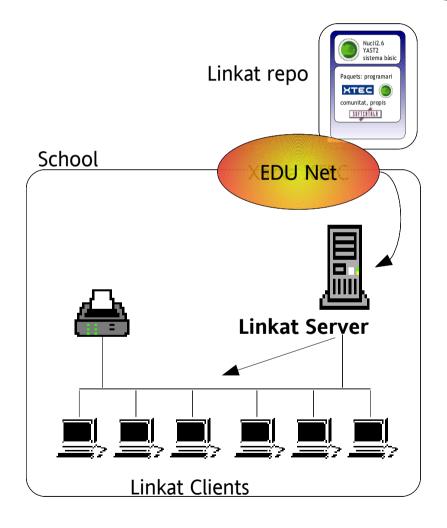
- -Central repositories for:
 - · updates
 - · install source

2nd stage:

-School server mirrors nightly and offers both sources to clients.



Client / Server configuration - School model



Now:

All work done from a script

Future:

Integrated in a YaST module



<u>Translations and Documentation</u>

Novell Spain translated SLED10SP1 to catalan.

(YaST and Icn) Revised by SoftCatalà http://softcatala.org

http://i18n.opensuse.org/stats/SLE10-SP1/ca/

Catalan voices for Festival.

Contributed by TALP @ **UPC** (Univ. Politècnica de Catalunya)

http://gps-tsc.upc.es/veu/festcat/

Manuals and documentation

Created by Linkat Team & Edu Department.

http://linkat.xtec.net/portal/content/view/22/150/



Branding and Themeing



Linkat 2.0 GDM Login



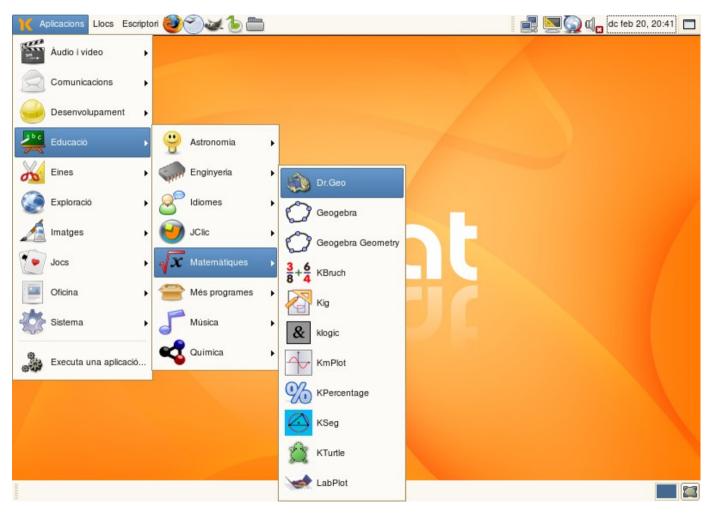
Branding and Themeing



Linkat 2.0 GDM Login



Branding and Themeing



Linkat 2.0 GDM Login



Branding and Themeing



Linkat 1.0 desktop



RPM packaging

Nearly every change, update, new software, fix, backport, etc, ends up in a RPM package....

... we tried to take advantage from what's already been packaged ... or recycle similar SPEC files....

Origins:

SLED10SP1
SUSE LINUX 10.1
OpenSUSE repositories
Packman, guru, etc
own RPM packaging from tar.gz



RPM packaging

Internal workshop on RPM packaging:

topics

- -Authoritative sources for RPM packages
- -Best practices
- -Do not reinvent the wheel
- -Always publish as RPM and SRPM @ the forge: https://projectes.lafarga.cat/projects/linkat/



RPM packaging

We are following usual guidelines from:

http://en.opensuse.org/SUSE_Package_Conventions

Also for kernel modules:

http://www.suse.com/~agruen/KMPM/

RPM packages count for

Linkat 1.0/1.1 70 Linkat 2.0 160

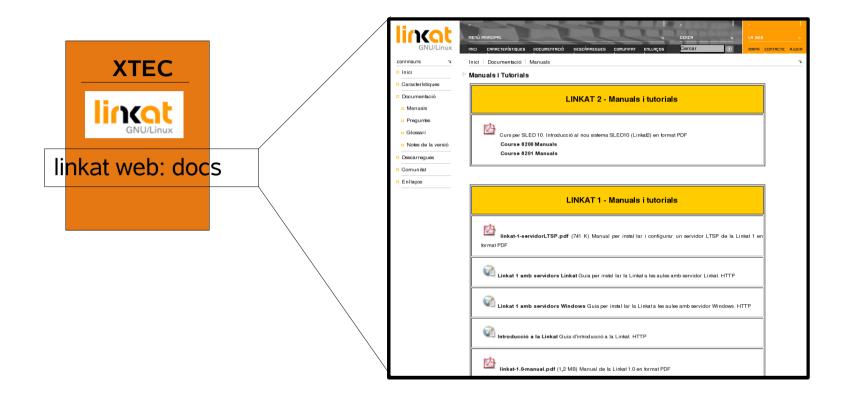




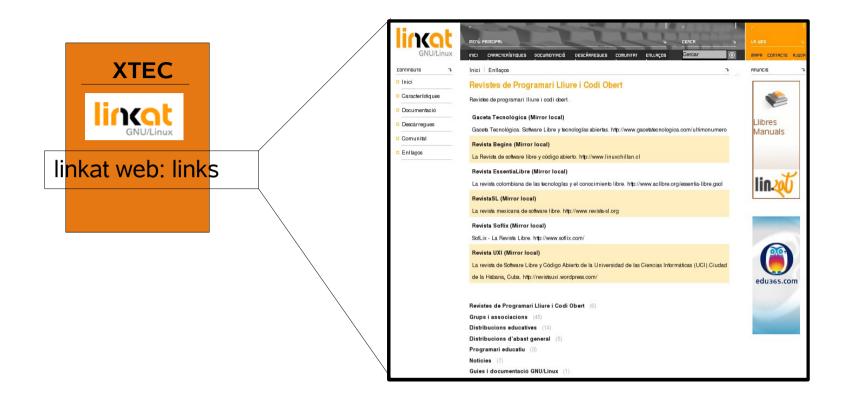
- What's Linkat GNU/Linux About ?
- Linkat GNU/Linux Features
- Community and Services
- Future Directions
- Demo
- Q&A





















lin.cat is a web frontend for a linkat marketplace run by the community. If offers non-official linkat services.











lin.cat is a web frontend for a linkat marketplace run by the community. If offers non-official linkat services.



lin.ca<mark>t:Professional s</mark>ervices Recommended hw







lin.cat is a web frontend for a linkat marketplace run by the community. If offers non-official linkat services.



lin.cat:Professional services
Companies index



Installation, configuration and mantainance services



Hardware selling points



Education and courses



Books



Research papers





lin.cat is a web frontend for a linkat marketplace run by the community. If offers non-official linkat services.







lin.cat is a web frontend for a linkat marketplace run by the community. If offers non-official linkat services.





Centered on "low cost computer rooms" as a killer application based on linkat, LTSP and Thin desktops



lin.cat:Professional services
Low cost centered



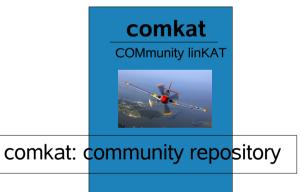


comkat is a developer community around linkat run by the community.



Two types of users:

- Admin users: Users who can give access or deny it to developers, as well as remove rpms
- Developers: Users who write rpms and upload them.







comkat is a developer community around linkat run by the community.



Two codes of conduct.

- Code of conduct for admins: Allow anyone to be a developer except the ones that do not respect the code of conduct for developers. Decide who can be a new administrator.
- Code of conduct for developers: Do not upload stuff that is not legal, nor free, nor recommended for people under age of 18.



comkat: community repository



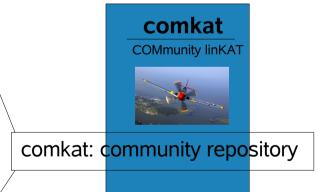


comkat is a developer community around linkat run by the community.



Current admins:

- People from Universities
- People from Schools
- People from Private sector.

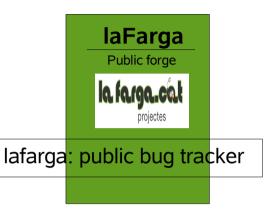














Generalitat de Catalunya – Secretariat for Telecomunications and the Information Society runs a public forge where anyone can has his own project. Linkat bug tracker and source code is hosted there.













Generalitat de Catalunya – Secretariat for Telecomunications and the Information Society runs a public forge where anyone can has his own project. Linkat bug tracker and source code is hosted there.





Government:

- linkat project
- support to public schools (60% of Catalan Schools)
- free support
- free documentation
- release source code
- open bug traquer





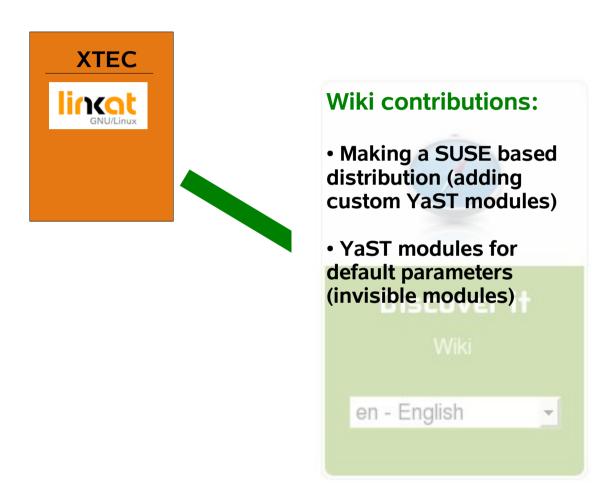
Community and marketplace

- marketplace
- community repository
- paid support to private schools (40% of Catalan Schools)
- paid services to anyone else
- free additional packages



We are looking for sponsors!!!

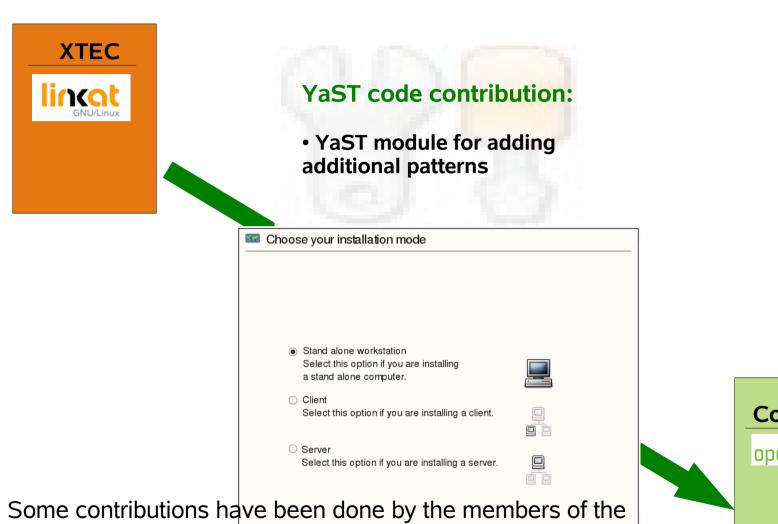




Some contributions have been done by the members of the linkat project to openSUSE, throw the wiki and the BuildService, by publishing code and documentation.



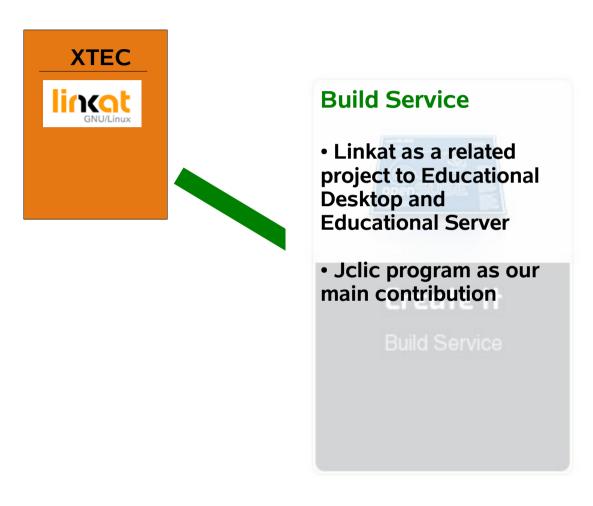




Some contributions have been done by the members of the linkat project to openSUSE throw the wiki and the BuildService, by publishing there code and documentation.







Some contributions have been done by the members of the linkat project to openSUSE throw the wiki and the BuildService, by publishing there code and documentation.



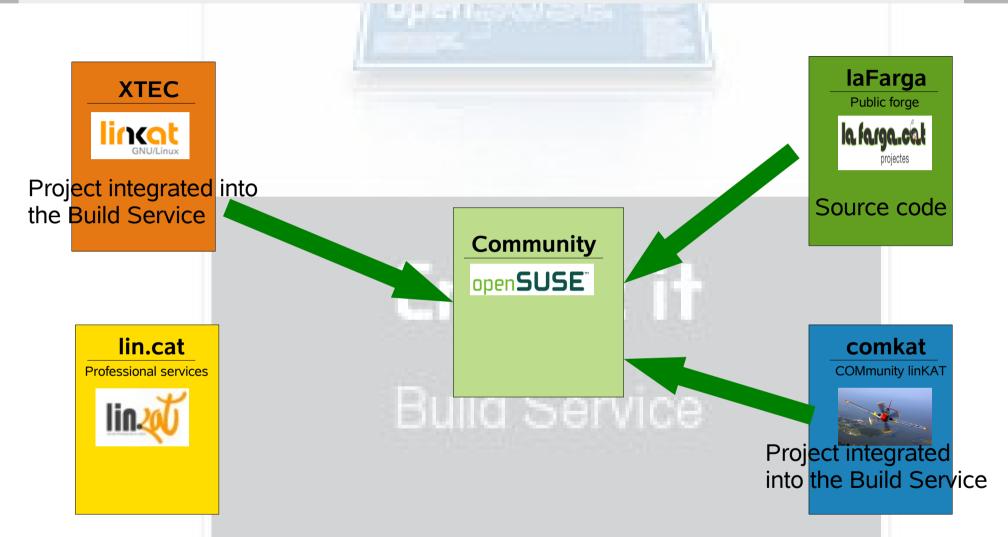






- What's Linkat GNU/Linux About?
- Linkat GNU/Linux Features
- Community and Services
- Future Directions
- Demo
- Q&A

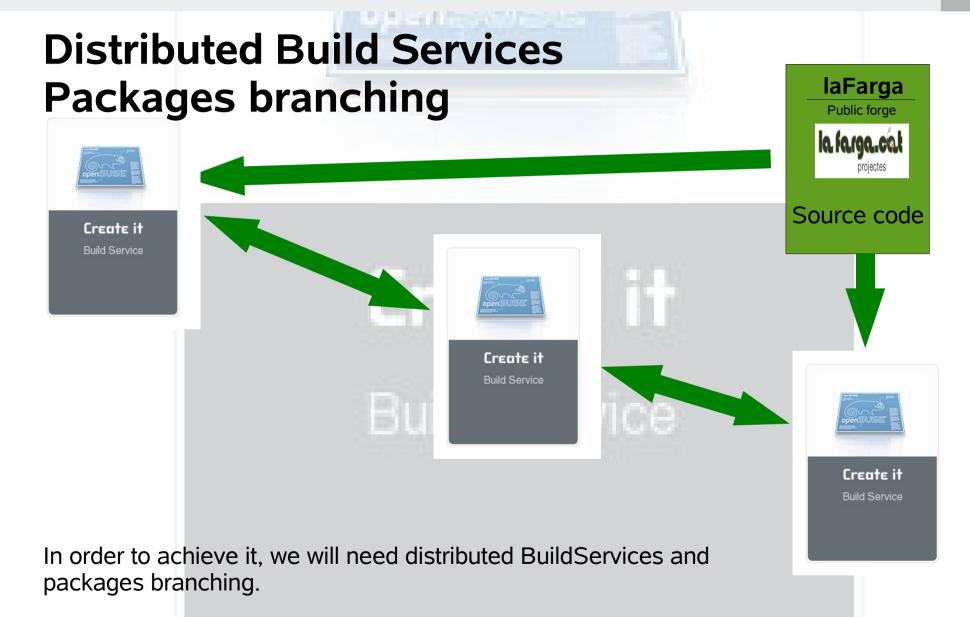
Future directions: Collaborate through the Build Service



We would like to see linkat and comkat as BuildService projects at openSUSE so all three communities were closer and more code were contributed.



Future directions: Collaborate through the Build Service







- What's Linkat GNU/Linux About?
- Linkat GNU/Linux Features
- Community and Services
- Future Directions
- Demo
- Q&A



- What's Linkat GNU/Linux About?
- Linkat GNU/Linux Features
- Community and Services
- Future Directions
- Demo
- Q&A

Thanks!

