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

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](http://linkat.xtec.cat)
What's Linkat GNU/Linux About?

So we need:

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

- **up to date software versions**
  ( we love openSuSE repos !!! )

Then we take best of each world combining:

- A **SLED10 core** ( kernel + core components )
- Latest applications from **OpenSuSE repos**
What's Linkat GNU/Linux About?

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
What's Linkat GNU/Linux About?

**XTEC**

- Own software

**Community**

- openSUSE™
- external packages

**Novell / SUSE**

- SLES10 x86
- SLED10 Sources
- SLE10 SDK
- SLED10 x86

**Added software for flavours:**
- Home Workstation
- School Server
- School Client

**RPM Packaging**

- Translations
- Themes

**Translations**

- Add to Master

**Documentation and Manuals**

- LINKAT DVD
- Linkat Updates
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's Linkat GNU/Linux About?

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
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Linkat GNU/Linux features

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 GNU/Linux features

**Linkat Main Features**

- Installable DVD and LiveDVD
- Install from Windows (thanks to Instlux!)
- LTSP capable
- Focused on Education
- Accessibility (festival voices)
Linkat GNU/Linux features

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
Linkat GNU/Linux features

Client / Server configuration - School model

Shared folders:

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

[S] (software folder - samba & NFS)
- everybody: R
- Admins: R/W

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

Client / Server configuration - School model

Distributed repos & updates

1\textsuperscript{st} stage:
- Central repositories for:
  - updates
  - install source

2\textsuperscript{nd} stage:
- School server mirrors nightly and offers both sources to clients.
Linkat GNU/Linux features

Client / Server configuration - School model

Now:
All work done from a script

Future:
Integrated in a YaST module
Translations and Documentation

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
Linkat GNU/Linux features

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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/
Linkat GNU/Linux features

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

<table>
<thead>
<tr>
<th>Linkat version</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linkat 1.0/1.1</td>
<td>70</td>
</tr>
<tr>
<td>Linkat 2.0</td>
<td>160</td>
</tr>
</tbody>
</table>
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Generalitat de Catalunya – Department of education runs a web site with news, documentation, links, download area and forum.
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Community and services: Local

lin.cat is a web frontend for a linkat marketplace run by the community. It offers non-official linkat services.
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Ordinadors recomanats per Linkat 2.0

Els següents ordinadors han estat revisats que funcionen amb Linkat 2.0 Beta 1. Els ordinadors recomanats porten l'engrexina següent, apareixen en aquesta web i es poden comprar on s'indica.

- Place base: M2N VM
- CPU: AMD2 4000 Mhz Dual Core
- Memòria: 1 GB RAM DDR2 *
- Disc dur: 160 GB SATA2 *
- Tarjeta gráfica: VGA Nvidia GeForce 6100
- Tarjeta de so: AD1988
- Altres: Grabadora i DVD

Lin.cat: Professional services
Recommended hw
lin.cat is a web frontend for a linkat marketplace run by the community. It offers non-official linkat services.

- Installation, configuration and maintenance services
- Hardware selling points
- Education and courses
- Books
- Research papers
Community and services: Local

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

Proportional to courses assisted and to clients.
Community and services: Local

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

Centered on “low cost computer rooms” as a killer application based on linkat, LTSP and Thin desktops.
Community and services: Local

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.
Community and services: Local

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 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.
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Community and services: Local

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

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!!!
Community and services: Global

Wiki contributions:

- Making a SUSE based distribution (adding custom YaST modules)
- YaST modules for default parameters (invisible modules)

Some contributions have been done by the members of the linkat project to openSUSE, through the wiki and the BuildService, by publishing code and documentation.
Community and services: Global

YaST code contribution:

- YaST module for adding additional patterns

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

In order to achieve it, we will need distributed Build Services and packages branching.
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Thanks!