

Technical specifications for Mandriva Linux 2010

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Revision History

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2010 initial specs

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Introduction

This document describes the ideas of new functionalities or improvements for Mandriva Linux 2010 products. Each part has an author which can answer questions if some things are unclear (Author field), a version (Version field), an id (Id field) to identify uniquely the part for external reference, a person and a team responsible for the realisation (Implementor and Team fields), a Priority field between 0 and 3 (3 being the more priority) and a Status field to show the development status.

Chapter 1. Main focus

The main focus of Mandriva Linux 2010 is improving user experience for daily tasks.

Requirements :

- No critical bugs in bugzilla and test plans for the major components in testzilla.

The products derived from the developments are:

- Free
- One
- PowerPack

The version of the main components will be:

- kernel 2.6.31 (estimation)
- xorg: 1.7.0 (very rough estimation) or 1.6.2+
- gcc 4.4.X
- glibc 2.10.1 or 2.10.2+
- KDE 4.3.X
- GNOME 2.28

Chapter 2. Distribution Core

2.1. Kernel

Author	Anne NICOLAS
Version	0.1
Id	spec100
Team	core
Implementor	
Priority	
Status	

2.1.1. Remove old kernel on upgrade

Implementor	tvignaud@mandriva.com
Priority	3
Status	0%

2.1.1.1. Boot menu cleanup

During a distribution release lifetime, a lot of update kernel are released and will clutter boot menu, for no user (except failsafe when a new kernel doesn't boot). MandrivaUpdate should propose to auto-uninstall oldest kernels when installing a new one (keeping current kernel, new kernel and previous kernel).

2.1.2. Improve wireless support

Implementor	herton@mandriva.com
Priority	5
Status	80%

2.1.2.1. Improve wireless support

Enhancements for RTL 8187 wireless driver

Include support for for RTL 8187 SE wireless driver

Check new wireless regulatory domain

Adopt Mesh utilities and test support for ralink, atheros and others.

2.2. Xorg 1.7

Author	Anne NICOLAS
Version	0.1
Id	spec107
Team	core
Implementor	ander@mandriva.com.br
Priority	5
Status	0%

2.2.1. Abstract

Update to Xorg 1.7

2.2.2. Benefit

2.2.3. Xorg 1.7

Update to Xorg 1.7 (check hotplug and autoconfig)

Modesetting (at least for Intel - depends on kernel)

2.3. Shortcut for X restart

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec115
Team	Core
Implementor	Ander <ander@mandriva.com.br>
Priority	5
Status	0%

2.3.1. Abstract

Provide a preconfigured shortcut for X restart

2.3.2. Benefit

Define solution with new version of Xorg

2.3.3. Better reimplementaion for Ctrl+Alt+Backspace

Implement Suse patch. Shortcut will be following: press Ctrl+Alt+Backspace once. You will hear a bip. Second time will restart X (See patch attached in #47462).

2.4. IPv6 support

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec104
Team	Core

Implementor	eugeni@mandriva.com.br, blino@mandriva.com
Priority	3
Status	0%

2.4.1. Abstract

Validate IPv6 support

2.4.2. Benefit

ensure distribution can work in IPv6 only environments

2.4.3. IPv6 ready distribution

IPv6 deployment is becoming a hot topic and some US agencies (DoD for instance) are now requiring IPv6 compliance for software they use. Distribution should be tested in IPv6 only environment. In a first phase, installer (stage 1 and stage 2) and Mandriva tools should be checked, as well as initial boot. In a second phase, most network aware applications should be checked.

2.5. Boot

Author	Anne NICOLAS
Version	0.1
Id	spec101
Team	Distribution Core
Implementor	
Priority	3
Status	

2.5.1. Improve boot time

Implementor	Engineering team
Priority	3
Status	70%

2.5.1.1. General process

Work to be done in 3 main steps:

- collect concrete data (with bootchart) on our boot process to get a complete view of what can be improved
- collect internal practises about implementation of boot time improvments (OEM team, general ideas...)
- try to merge OEM hacks (if they are clear) or fix the root cause which requires those hacks
- list final points of identified improvments and implement in Cooker
- evaluate if readahead can improve boot time
- evaluate if prelink can improve boot time
- evaluate if preload can improve boot time
- evaluate if switching to dash as default login shell can improve boot time

A lot of work has been done on Mandriva Mini (and older OEM developmentis) to get fast boot, mostly using finit-mdv, but this is mostly based on customization for specific hardware and software configuration and can not be used in a generic environment (and finit also causes other issues). A fast boot mode could be implemented in rc.sysinit, just starting dbus, hal and dm services, if "standard" X startup was successfull with the same kernel / X display driver in the past.

readahead usage can be improved, by merging sreadehead inode sort algorithm when using SSD, and by making sure readahead initial call is blocking when using non-SSD drive

2.5.2. GFXBoot bugs

Implementor	cfergeau@mandriva.com
Priority	3
Status	50%

2.5.2.1. GFXBoot bugs

- GFXBoot freezes on some systems, preventing boot.
- add support for wide screen in gfxboot

2.5.3. Switch to GRUB2 ?

Implementor	cfergeau@mandriva.com
Priority	0
Status	0%

2.5.3.1. switch to grub2

We need to wait for SUSE to switch to GRUB2 so we get gfxboot for it.

2.5.4. Create optional ghost compliant mode for GRUB install

Implementor	cfergeau@mandriva.com
Priority	3
Status	0%

2.5.4.1. Add Ghost compliant mode to our grub installation

Unlike some distributions (Fedora), our way to install grub is not compatible with Ghost.

This mode doesn't not have to be default mode in installation but should be available through installer UI or autoinstall.

2.5.5. initscript improvements

Implementor	oblin@mandriva.com / fcrozat@mandriva.com
Priority	3
Status	0%

2.5.5.1. initscript improvements

Fedora has replaced rc.sysinit by upstart, starting with Fedora 9. This mean initscripts will probably no longer be maintained by Redhat soon. We should check upstart and see if it fits our needs (and doesn't duplicate with prcsys).

It could also be useful to start some services / programs after one specific event (desktop started, etc..) to make sure CPU is not overloaded at startup.

2.5.6. Change failsafe access on gfxboot

Implementor	cfergeau@mandriva.com
Priority	3
Status	0%

2.5.6.1. Change failsafe access on gfxboot

Failsafe boot menu entry is too visible, while it drop user in init 1 with only a shell opened. Until we ship a menu similar to rescue CD, failsafe should be removed from boot menu entry and replaced by a function key in gfxboot

2.5.7. Add support for Kernel Mode Switch / Plymouth

Implementor	fcrozat@mandriva.com
Priority	3

Status	0%
--------	----

2.5.7.1. Add support for KMS / Plymouth

Kernel Mode Switch support is becoming available for recent Intel graphic chipset and might soon be available for Radeon and Nouveau drivers. We should extend splash.sh / initscripts infrastructure to support KMS optionnaly for chipset supporting it and be able to fallback to splashy if needed, since proprietary driver for nVidia and ATI might not support KMS.

2.5.8. Complete / reorganize grub menu

Implementor	cfergeau@mandriva.com
Priority	4
Status	0%

2.5.8.1. Simplify default menu

Remove failsafe mode from general menu as it's rather an advanced item.

Complete advanced options

Add: runlevel 3 boot menu entry in grub options menu, failsafe entry, recovery menu in the bootloader, check tool for installation media.

2.6. Security tools redesign

Author	Anne NICOLAS <anne.nicolas@mandriva.com>
Version	0.2
Id	spec105

Team	core
Implementor	Eugeni Dodonov <eugeni@mandriva.com>, Herton <herton@mandriva.com.br>
Priority	3
Status	10%

2.6.1. Abstract

Rethink system and kernel-level security, using Tomoyo instead of AppArmor, and further improving msec.

2.6.2. Benefit

Improve system security, further extending msec integration with the rest of the system, and improving the global maintainance and reliability.

2.6.3. General specifications

As AppArmor is mostly unsupported (no upstream releases for past few months, and a long list of pending issues), we should consider switching to other alternatives. Tomoyo seems to be the best one, as it is already in main kernel, and allows to do everything AppArmor used to. One of the biggest drawbacks of Tomoyo is the lack of pre-defined permission profiles for system services. We could use a set of scripts to dynamically configure and enable security for specific applications or services, resulting in same functionalities as AppArmor. This could also be controlled by msec - adding a new tab to msecgui to select which applications/services should be protected. At the same time, we should add more features to msec.

Regarding msec:

- Allow user to use custom security levels in msecgui (msec already supports it)
- Implement Tomoyo security configuration panel.
- Improve msec reports generation (use html templates instead of plain text, add i18n)
- Check msec consistency with other drakxtools to get coherent policies (ex: diskdrake)

New features should be considered for inclusion in msec:

- Add support for environment-wide msec settings, allowing admin to push msec configuration to several machines.

2.7. Improve cryptographic data support

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec103
Team	Core
Implementor	pterjan@mandriva.com
Priority	5
Status	20%

2.7.1. Abstract

Improve cryptographic data support in the distribution

2.7.2. Benefit

preserve user data safety

2.7.3. Improve cryptographic data support in the distribution

A review of cryptographic data support in the distribution should be done, to make sure the three following possible level of cryptographic are available :

- crypt the entire system (/ and maybe swap)
- crypt user home directory
- crypt one dedicated directory in user home

2.8. Packaging System

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1

Id	spec102
Team	Core
Implementor	
Priority	3
Status	

2.8.1. Orphans packages

Implementor	tvignaud@mandriva.com, kde@mandriva.com
Priority	3
Status	80%

2.8.1.1. Orphans in urpmi

Installing and uninstalling (or upgrading) packages often leave orphan packages, pulled by dependencies, installed on system, cluttering the system after a lot of upgrades / install-uninstall cycles. urpmi should track such packages at install time and should uninstall them when they are not needed (this behaviour should be configurable). apt-get has such a feature called "autoremove"

for next Mandriva Linux release, orphans support should be improved : in task meta-packages, replacing as much hard dependencies (requires) with soft dependencies (suggests). Support for orphans in UI should be enabled.

2.8.2. rpm rebuild bot

Implementor	tvignaud@mandriva.com
Priority	2
Status	0%

2.8.2.1. RPM rebuild bot

Due to many changes in cooker distribution, rpm packages might become unbuildable without people noticing. This problem could be mitigated by setting up a rpm rebuild server which would periodically rebuild distributions (a full rebuild take about 2 days) and post results automatically on web pages, with logs and so on. rpm-rebuilder script can handle things. This doesn't ensure 100% of build dependencies are correct.

Another orthogonal problem is being able to rebuild and submit a set of packages automatically. This would imply using iurt and would ensure build dependencies are correct. Such build would be much more slower than using rpm-rebuilder. Failure should be posted to a mailing list (maintainers maybe).

2.8.3. Update reason on api query

Implementor	cfergeau@mandriva.com
Priority	3
Status	0%

2.8.3.1. Update reason on api query

When urpmi queries on api.mandriva.com for mirrors.xml, when updating sources, it doesn't add "reason=updates" on api queries, so those queries can't be seperated from other queries.

2.8.4. Enhance repositories description

Implementor	cfergeau@mandriva.com
Priority	3
Status	0%

2.8.4.1. Repositories description

The various repositories do not have a one liner description allowing users to understand differences

between repositories. Moreover, there is no way to "tag" a repository as a backport or a debug repository (the only available tag is "update"). Another interesting tag would be license of software in this repository.

2.9. Guest account

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec108
Team	core
Implementor	tvignaud@mandriva.com
Priority	3
Status	0%

2.9.1. Abstract

Create a guest account by default, with restricted privileges and auto-cleaning at logout

2.9.2. Benefit

2.9.3. Guest account

A guest account should be created by default on systems, with restricted privileges (not possible to start any applications requiring console privileges, like drakxtools for instance) and with content of guest account being removed at logout. User switching should be working between "standard" users and guest account. pam_mount might be a solution to handle account home directory creation / destruction at login / logout.

2.10. Merge gdium port in cooker

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec235
Team	
Implementor	apatard@mandriva.com
Priority	3
Status	0%

2.10.1. Abstract

Merge gdium port patches in cooker distro

2.10.2. Benefit

Improve package quality

2.10.3. Merge gdium patches in cooker

When gdium / MIPS port was done, many bugs were found in packages, mostly caused by circular dependencies or incorrect support on MIPS platform. Those patches should be merged back in cooker distribution.

2.11. Switch to gcc 4.4

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec111
Team	Core
Implementor	cfergeau@mandriva.com
Priority	3
Status	100%

2.11.1. Abstract

switch to gcc 4.4

2.11.2. Benefit

better performance, faster compile time, less compilation bugs

2.11.3. Switch to gcc 4.4

All major distributions have switched (or are switching) gcc 4.4. It allows better performance for generated code, faster compile time (specially on C++) and fixes some compilations bugs.

Not all packages will rebuild cleanly with gcc 4.3. A lot of patches fixing those problems are available in Fedora / SUSE / Debian / Gentoo. We need to rebuild completely the distribution (using rpm-rebuilder or iurt) to detect those failure in advance.

We should also ensure ADA compiler is available.

2.12. Clean icedtea / openjdk

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec112
Team	Core
Implementor	cfergeau@mandriva.com
Priority	3
Status	0%

2.12.1. Abstract

Clean mess in java version available

2.12.2. Benefit

only package one working opensource java implementation

2.12.3. Clean icetead / openjdk

We are currently providing both icedtea and openjdk. We should drop the one which is no longer maintained upstream and ensure the other is working properly in the distribution.

2.13. JPackage Integration

Author	Wanderlei Antonio Cavassin <cavassin@mandriva.com>
Version	0.1
Id	spec113
Team	Core
Implementor	engineering team
Priority	3
Status	0%

2.13.1. Abstract

Make out of the box jpackage integration

2.13.2. Benefit

Users of Java applications will benefit of good quality of JPackage repository

2.13.3. JPackage Integration

JPackage Project, <http://www.jpackage.org/> is a well recognized source of Java packages, with quality and following java standards. We should provide a minimal integration to allow packages from jpackage repositories to be installed out of the box in Mandriva Linux.

Some packages are already requiring java to be built, like openoffice.org extensions and software from OEM partners.

2.14. Moblin UI

Author	Wanderlei Antonio Cavassin <cavassin@mandriva.com>
Version	0.1
Id	spec114
Team	Core
Implementor	claudio@mandriva.com, blino@mandriva.com
Priority	4
Status	0%

2.14.1. Abstract

Add Moblin User Interface

2.14.2. Benefit

Good alternative for netbooks

2.14.3. Moblin User Interface

Mandriva already has a really good infra-structure for netbook target installation, and adding Moblin user interface packages will give one more alternative to desktop environment. Moblin is getting moment and has great support from Intel.

Depending on how easy it can be to be customized, we could use Moblin as default light environment

2.15. Installation size

Author	Wanderlei Antonio Cavassin <cavassin@mandriva.com>
Version	0.1
Id	spec115
Team	Core
Implementor	Engineering Team
Priority	2
Status	0%

2.15.1. Abstract

Reduce size of minimal installation

2.15.2. Benefit

Less time to integrate OEMs and embedded projects, less disk space required

2.15.3. Reduce size of minimal installation

From time to time, new requirements and suggests are added to core packages, making the minimal installation bigger. We should review these requirements to reduce the size of minimal installation, in order to help OEM integration and embedded projects.

Chapter 3. Mandriva Tools

3.1. New design for installer

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec210
Team	Core
Implementor	tvignaud@mandriva.com
Priority	3
Status	90%

3.1.1. Abstract

Update installer with new design from LN

3.1.2. Benefit

Better user experience for install

3.1.3. New design for installer

Installer design is quite old now (still ok) and need to be refreshed to stay ahead of competition.

3.2. Allow to create btrfs and NILFS2 partitions with installer

Author	Wanderlei Antonio Cavassin <cavassin@mandriva.com>
Version	0.1
Id	spec241

Team	Tools
Implementor	pterjan@mandriva.com
Priority	4
Status	0%

3.2.1. Abstract

Prepare arrival of new filesystems

3.2.2. Benefit

Future is coming

3.2.3. Allow to create btrfs and NILFS2 partitions

Kernel 2.6.30 already has these new filesystems. Although marked as experimental yet, they have interesting applications for embedded and SSD cases. Would be nice to have the ability to create them in the installer.

3.3. Add map to choose geographic position to installer

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec221
Team	Tools
Implementor	cfergeau@mandriva.com
Priority	1
Status	0%

3.3.1. Abstract

Add a map widget in installer, to choose system geographical position

3.3.2. Benefit

Easier selection for timezone, use info for weather forecast configuration

3.3.3. Add map to choose geographical position

Adding a map widget in installer would allow to easily :

- Configure timezone
- Preconfigure weather forecast

3.4. improve installer profiles based on hardware

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec212
Team	Core
Implementor	tvignaud@mandriva.com, blino@mandriva.com
Priority	3
Status	80%

3.4.1. Abstract

hardware profiles in installer are not and might not be relevant to current hardware available now.

3.4.2. Benefit

Better tuned distributions for heterogenous hardware configuration

3.4.3. Improve installer hardware profile

Hardware related package install profile is no longer up to date with current hardware. It should be updated with current hardware available, ensuring not too many packages are installed on systems.

3.5. Improve release notes access during installation

Author	Anne Nicolas <anne.nicolas@mandriva.com>
Version	0.1
Id	spec233
Team	Tools
Implementor	Thierry Vignaud <tvignaud@mandriva.com>
Priority	3
Status	0%

3.5.1. Abstract

Make release notes readable during packages installation

3.5.2. Benefit

Give easily more information on new release.

3.5.3.

Include button on install packages screen to open release notes file

3.6. Windows migration tool

Author	Anne NICOLAS
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Version	0.1
Id	spec200
Team	Tools
Implementor	oblin@mandriva.com, salem@mandriva.com
Priority	3
Status	0%

3.6.1. Abstract

Complete set of fonctionnalities of Transfugdrake, adding mail migration and dual boot management in term of data.

3.6.2. Benefit

Provide a complete tool to help beginners migrating to Mandriva Linux

3.6.3. General specifications

2 main fonctionnalities need to be implemented to complete existing one:

mails migration: Transfugdrake should be able to propose migration of main mail clients, Outlook and Mozilla Thunderbird. This can be done using existing backend tool included in Mozilla Thunderbird migration tool. Salem can help on that point

dual boot management: provide a way to manage user data using symbolic link and keep synchronised data between Windows and Linux systems.

3.7. Live upgrade

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec207
Team	Core

Implementor	tvignaud@mandriva.com dlallement@mandriva.com cfergeau@mandriva.com
Priority	3
Status	90%

3.7.1. Abstract

Mandriva Online should notify user a new version of the distribution is available and should propose to upgrade it without using installer

3.7.2. Benefit

Stay competitive compared to Ubuntu, show urpmi power to handle this

3.7.3. Live upgrade

urpmi has been able to upgrade distributions for years but this feature has always been flagged as "not supported". Moreover, we have no way to notify users a new version of their distribution is available (it is specially problematic when a distribution is EOL). We need to do the following :

- Notify user, through mdvapplet a new distribution is available
- check no post configuration is done when upgrading using drakX installer (this mean package upgrade is enough for all upgades)
- check if X will be able to restart (reconfigure it if needed)
- setup older distribution installation (with maximum packages installed), create image for them in QA for upgrade test and run upgrade

For next Mandriva Linux release, we should :

- turn on live upgrade starting with Release Candidate 1 (so people from older distributions can test it if they want, and can upgrade from RC1/RC2 to Final).
- allow to optionally download ALL needed packages for the upgrade before starting it (if there is enough space). This will require to improve download size estimation.
- setup restricted repository at upgrade time too.
- add a message or a service if system was shutdown during an upgrade to restart the upgrade where it stopped.

3.8. Drakxtools UI review

Author	Anne Nicolas<anicolas@mandriva.com>
Version	0.1
Id	spec213
Team	Core
Implementor	anicolas@mandriva.com, alefebvre@mandriva.com
Priority	3
Status	30%

3.8.1. Abstract

Review UI of various drakxtools (based on community reviews and internal review) and try to improve UI

3.8.2. Benefit

Continue to ship best configuration tools across Linux distributions

3.8.3. Review and improve Drakxtools UI

Several community members have started reviewing drakxtools UI and we plan to improve those reviews when needed and fix our tools, whenever it is possible.

3.9. drakguard improvements

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec202

Team	Tools
Implementor	eugeni@mandriva.com.br
Priority	3
Status	50%

3.9.1. Abstract

add applications launch restriction, time based connection restriction

3.9.2. Benefit

More control for anxious parents

3.9.3. drakguard improvements

Drakguard is missing the following features :

- Prevent launching specific applications
- block / allow network connection based on system time

3.10. network tools memory footprint reduction

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec203
Team	Tools
Implementor	eugeni@mandriva.com.br
Priority	3
Status	50%

3.10.1. Abstract

Reduce memory footprint of Mandriva network tools

3.10.2. Benefit

Useful for OEM / small systems

3.10.3. network tools memory footprint reduction

Mandriva network tools (netapplet / network center) should be improved regarding their memory usage.

3.11. 3G features request

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec205
Team	Core
Implementor	eugeni@mandriva.com.br, tvignaud@mandriva.com, cfergeau@mandriva.com, blino@mandriva.com, kernel@mandriva.com
Priority	3
Status	33%

3.11.1. Abstract

good 3G support imply : download (and upload) quotas, PIN/PUK code management, operator selection

3.11.2. Benefit

Better hardware support for USB 3G keys

3.11.3. 3G/3G+ features request

With 3G/3G+ subscriptions becoming broadly available, some features are missing from drakxtools / netcenter / netapplet :

- quota support (check vmstats)
- PIN/PUK code management
- provider selection
- allow to block background network programs (security updates for instance) when roaming or using a non illimited 3G provider. This feature is also valid when using old PSTN modem.
- add more 3G cards to supported list.
- use udev-extras to detect which USB tty should be used for 3G cards
- use udev-extras or kernel mode-switch to switch 3G cards to modem mode
- use 3G mobile-providers list from GNOME / network manager to populate our own list in drakconnect
- ensure 3G shared by bluetooth work

a 3G meta package (as well as a wifi meta package) should be created, to easily pull all possible packages for supporting various 3G hardware (resp. wifi hardware).

3.12. Improve icon for protected network interfaces

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec230
Team	Tools
Implementor	Anne, Designer
Priority	3
Status	0%

3.12.1. Abstract

Improve icon for protected network interfaces

3.12.2. Benefit

3.12.3.

Improve icon for network interface protected by a firewall. To be defined with Helene.

3.13. Easier wifi key setup

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec225
Team	Tools
Implementor	tvignaud@mandriva.com
Priority	3
Status	100%

3.13.1. Abstract

Easier wifi configuration

3.13.2. Benefit

Allow to double check WEP/WPA keys

3.13.3. Easier wifi setup

Typing wifi (wep/wpa) keys can be difficult, when entryfield are in password mode. MacOS X allows to display keys (with a checkbox) so, you can be sure you didn't make any typo, but can keep the key safe from other eyes around by default. To improve WEP keys filling, OK / Next button should be disabled when key length is not valid and warn if it is too long (this one is also valid for WPA).

3.14. libparted port of diskdrake

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec211
Team	Core
Implementor	pterjan@mandriva.com
Priority	3
Status	90%

3.14.1. Abstract

diskdrake is currently have its own code to handle partitioning. It should be ported to libparted

3.14.2. Benefit

Less development for Mandriva, add support for GPT partitions

3.14.3. port diskdrake to libparted

Disks above TB capacity are become available to average consumer and we are hitting 2 or 4TB limit from DOS partition format. We need to switch to GPT (or any other relevant format) and to get this support, it would be easier to port diskdrake to use libparted. In a first phase, We could start with libparted used only for GPT partitions.

Problem has been detected with use of libparted when partitions are overlapping. This must be investigated.

3.15. Help user in partitioning his disks

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1

Id	spec219
Team	Tools
Implementor	pterjan@mandriva.com
Priority	3
Status	90%

3.15.1. Abstract

When user reaches partition step, he frequently do not even recall what is exactly on each of these existing partitions. Installer will allow him to browse at least content for root of each partition

3.15.2. Benefit

Increase simplicity of general use of distribution

3.15.3. Help user in partitioning his disks

Provide a pop-up window when clicking on partition and gives required information

3.16. Improve rpmdrake startup speed

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec226
Team	Tools
Implementor	tvignaud@mandriva.com
Priority	3
Status	10%

3.16.1. Abstract

Speedup rpmdrake startup

3.16.2. Benefit

Faster, better, stronger

3.16.3. Faster rpmdrake startup

Rpmdrake startup is quite slow, due to rpm databases parsing. Some data might be cached, allowing rpmdrake to start more quickly.

3.17. Improve user information in rpmdrake

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec217
Team	Tools
Implementor	tvignaud@mandriva.com
Priority	3
Status	0%

3.17.1. Abstract

Improve kind of user feedback to help in better comprehension of what happens in rpmdrake

3.17.2. Benefit

3.17.3. Improve user information in rpmdrake

Move general messages from bottom of rpmdrake and find proper way to provide it. Ex: if nothing has been found in search, it must be more visible.

Other improvement : adding support for screenshots

3.18. Provide popularity attribute for packages

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec214
Team	Tools
Implementor	tvignaud@mandriva.com
Priority	2
Status	0%

3.18.1. Abstract

Add popularity parameter for packages in rpmdrake.

3.18.2. Benefit

Help people to choose application to be installed

3.18.3. Provide popularity attribute for packages

rpmstats is existing now for years and not used at all. This could provide helpfull information both for distribution components choice and end users.

Use rpmstats database to provide needed information. Add rpmstats in a more visible way in general tools

3.19. Urpmi media auto configuration in all products

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec218
Team	Tools
Implementor	cfergeau@mandriva.com
Priority	3
Status	90%

3.19.1. Abstract

Allow installer to auto configure installation media to make user life easier

3.19.2. Benefit

Increase simplicity of general use of distribution

3.19.3. Urpmi media auto configuration in all products

Auto configure media at the end of installation using same way as in One. Set of media should take into account range of product. Ex: do not add non-free media in Free installation

3.20. Provide options on updates frequency

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec215
Team	Tools
Implementor	tvignaud@mandriva.com
Priority	3
Status	50%

3.20.1. Abstract

Add option to allow user to plan updates

3.20.2. Benefit

3.20.3. Provide options on updates frequency

Use cron or anacron to provide personalized options on mdvonline

3.21. Autodetect local urpmi repositories

Author	Frederic Crozat <fcrozt@mandriva.com>
Version	0.1
Id	spec220
Team	Tools
Implementor	cfergeau@mandriva.com
Priority	3
Status	0%

3.21.1. Abstract

Allow to use repository available on local network

3.21.2. Benefit

Allow users to lower their bandwidth usage

3.21.3. Urpmi autodiscovery of local repositories

Auto discovery of local urpmi repositories (using DNS-SD) would ease system deployments. Urpmi would use those repositories, without any configuration. It could also be used by ISP to advertise their Mandriva mirrors to their subscribers.

3.22. Manage end of life distributions

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec241
Team	Tools
Implementor	tvignaud@mandriva.com
Priority	5
Status	0%

3.22.1. Abstract

Manage EOL distributions so that users can be informed and take decisions

3.22.2. Benefit

Provide easy way to get information about security maintainance availability and potential upgrades

3.22.3. Information and actions on EOL distributions

Users should be notified when distribution is EOL. First step will be to inform him. We will do it from 2008.1 version. next step will be to propose some solutions. Upgrading to the next supported version should be the thing to do.

3.23. Draksnapshot restore tools

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec204
Team	Tools
Implementor	fcrozat@mandriva.com boiko@mandriva.com tvignaud@mandriva.com
Priority	3
Status	20%

3.23.1. Abstract

Integrated UI in nautilus and Dolphin (or konqueror) should be created to access / restore draksnapshot backups. Integrated restoration in installer.

3.23.2. Benefit

Easier file restoration

3.23.3. GNOME and KDE UI for draksnapshot restore

Draksnapshot backup are currently not easily restorable. A native UI, integrating in Nautilus and Dolphin should be written. To prevent code duplication, a D-Bus service doing most of the work should be written and two UI frontend (one for nautilus and one for dolphin) would take care of plugging backups to file managers

Installer should also propose to restore a full system, based on previous backup

3.24. Remove some obsolete drakxtools

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec228

Team	Tools
Implementor	tvignaud@mandriva.com
Priority	3
Status	50%

3.24.1. Abstract

No longer ship some obsolete drakxtools

3.24.2. Benefit

Less clutter

3.24.3. Remove some obsolete drakxtools

Candidate for removal :

- rfbdrake (replaced by vino / vinagre / krfb / kvnc)
- park-rpmdrake

3.25. Improve management of non broadcasting printing servers

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec241
Team	Tools
Implementor	spuk@mandriva.com
Priority	5
Status	0%

3.25.1. Abstract

Improve configuration for printing servers

3.25.2. Benefit

Make non broadcasting servers usable

3.25.3. Improve configuration for printing servers

When Printing server is configured to avoid broadcasting, configuration is just not usable. This should be checked. For example, make sure that print server is saved in configuration which is not the case at the moment.

3.26. Hardware test live CD

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec222
Team	Tools
Implementor	blino@mandriva.com
Priority	2
Status	0%

3.26.1. Abstract

Create an hardware autotest live CD

3.26.2. Benefit

Easier testing for compatible systems

3.26.3. Autotest Live CD

Create a live CD featuring hardware autotest, with possible reporting to HCL or to a external media (for later import or when network is not available).

3.27. Mandriva One improvements

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec209
Team	Core
Implementor	cfergeau@mandriva.com
Priority	3
Status	60%

3.27.1. Abstract

One should be improved for boot speed, ISO size, setting languages based on timezone (from installer new work), removing unneeded packages at install time and install packages needed.

3.27.2. Benefit

Better user experience for One users

3.27.3. One improvements

One should be improve on the following aspects:

- boot speed (with file reordering when generating ISO)
- ISO image size (LZMA, better package selection)
- improved language selection (based on timezone and new work from installer)
- install / uninstall packages after initial ISO dump on disk, based on hardware configuration

3.28. PolicyKit integration in Mandriva Tools

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec208
Team	Core
Implementor	tvignaud@mandriva.com
Priority	3
Status	0%

3.28.1. Abstract

Some of our tools requires root privilege, which is achieved through usermode. PolicyKit would allow easier management for this and would ensure UI is never run as root

3.28.2. Benefit

Better security, fine grain configuration, MCC running as user

3.28.3. PolicyKit integration

usermode is slowly being deprecated (and has always been painful to setup), in favor of PolicyKit, which is cross distribution and cross desktop (KDE port in progress). This would allow MCC to be started as user and drakxtools would require privilege only when committing changes to configuration. It would also simplify fine grain configuration for those ACL.

3.29. Webkit based UI for drakxtools help and firsttime wizard

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec226

Team	Tools
Implementor	tvignaud@mandriva.com
Priority	3
Status	0%

3.29.1. Abstract

No longer use Firefox for displaying drakxtools help

3.29.2. Benefit

Faster, less clutter

3.29.3. Dedicated help program for drakxtools

Currently, firefox is used to display drakxtools help, which is causing an hard dependency and some tricks to make sure firefox is not started at root. It would be better to use webkit inside drakxtools to display HTML (already done in installer).

First time wizard should also be webkit based

3.30. UI to store my.mandriva.com account credential on local system

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec224
Team	Tools
Implementor	alefebvre@mandriva.com
Priority	3
Status	0%

3.30.1. Abstract

Store my.mandriva.com credential locally

3.30.2. Benefit

Allow to use my.mandriva credential easily

3.30.3. Store my.mandriva.com credentials locally

Currently, my.mandriva.com credentials are requested at first boot but are only used for web login and are not stored on the system. This is preventing authentication to be reused when my.mandriva.com credentials are needed on the local system (for Restricted media for instance).

3.31. Improve hybrid ISO images

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec235
Team	
Implementor	cfergeau@mandriva.com, pterjan@mandriva.com
Priority	3
Status	0%

3.31.1. Abstract

Fix glitches in hybrid ISO images

3.31.2. Benefit

Hybrid ISO should be as usable as ISO, on USB sticks

3.31.3. Improve hybrid ISO images

List of things to improve in current hybrid ISO :

- dumped USB keys aren't recognized by Windows, which suggest to reformat them
- free space not used by ISO can't be used to create a new partition and access it when key is booted using the ISO (for One images).
- boot.iso is not hybrid ISO

3.32. Simplify post-install (One / Flash) steps

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec237
Team	
Implementor	cfergeau@mandriva.com
Priority	3
Status	0%

3.32.1. Abstract

Simplify post-install (One / Flash) steps

3.32.2. Benefit

Improve user experience

3.32.3. Simplify post-install steps

There are currently too many steps in post-install for One / Flash (and even for first boot on One), which frighten users and give the feeling "Mandriva Linux is hard to use". We should try to remove or hide as much step as possible, maybe merging some, using a "summary" like approach (maybe), or a maps for geographical based settings.

3.33. Clean-up xorg.conf file

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec238
Team	
Implementor	cfergeau@mandriva.com
Priority	3
Status	0%

3.33.1. Abstract

Clean-up xorg.conf file

3.33.2. Benefit

Slowly move to no xorg.conf file needed

3.33.3. Clean-up xorg.conf file

For keyboards and mouse, xorg.conf section are becoming obsolete, replaced by hal / udev. We should no longer configure this part in mousedrake / keyboardrake. We should also remove some obsolete parts in xorg.conf file, such as built-in modules.

3.34. Notification framework rework

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec239
Team	
Implementor	Engineering team
Priority	3

Status	0%
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3.34.1. Abstract

Clean-up xorg.conf file

3.34.2. Benefit

Draining the notification swamp

3.34.3. Notification framework rework

We need to review how notification are used on Mandriva Linux :

- try to plug libnotify notification into knotify4 for better UI integration
- check notify-osd and see if it is relevant
- see if we can improve notification-daemon default theme / design
- try to merge the various notification code in drakxtools (net_applet, s2u, mdkonline, draksnapshot) to only have one copy in memory (if possible in C) to reduce memory footprint
- try to plug s2u on hal (or udev) to notify users when new hardware not handled automatically by GNOME/KDE has been plugged and need further configuration

3.35. Spanish Translations

Author	Wanderlei Antonio Cavassin <cavassin@mandriva.com>
Version	0.1
Id	spec240
Team	
Implementor	andre@mandriva.com
Priority	3
Status	60%

3.35.1. Abstract

Fully Translate Mandriva Tools to Spanish

3.35.2. Benefit

Benefit Spanish speakers and OEM projects

3.35.3. Fully Translate Mandriva Tools to Spanish

We need to make sure Mandriva Tools are fully translated to Spanish, in benefit of large community in Spain and Latin America, also making easy to integrate OEMs in those regions. This task can get help from newer Assembly local groups and from Brazilian team as well.

3.36. Manage end of life distributions

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec241
Team	Tools
Implementor	tvignaud@mandriva.com
Priority	5
Status	0%

3.36.1. Abstract

Manage EOL distributions so that users can be informed and take decisions

3.36.2. Benefit

Provide easy way to get information about security maintainance availability and potential upgrades

3.36.3. Information and actions on EOL distributions

Users should be notified when distribution is EOL. First step will be to inform him. We will do it from 2008.1 version. next step will be to propose some solutions. Upgrading to the next supported version should be the thing to do.

Chapter 4. Desktop environments

4.1. Icons theme choice

Author	Anne NICOLAS
Version	0.1
Id	spec300
Team	Design
Implementor	KDE and GNOME teams
Priority	3
Status	0%

4.1.1. Abstract

We need a common choice for coming release on icons theme, GNOME, KDE3 and KDE4.

4.1.2. Benefit

Participate to general design of distribution and provide renewed look'n feel.

4.1.3. General specifications

We need to define some changes in icons theme: Tango, Oxygen could be one of the possible choice. Should we switch GNOME and maybe KDE3 to Tango, now that KDE4 has Oxygen ? Need to evaluate which icon theme are better with Oxygen.

4.2. Reduce dictionaries proliferation

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec301

Team	Interface
Implementor	fcrozat@mandriva.com, KDE team
Priority	3
Status	0%

4.2.1. Abstract

Reduce dictionaries proliferation

4.2.2. Benefit

Better language coverage, less disk space

4.2.3. Reduce dictionaries proliferation

ensure all spell checkers (evolution, gtkspell, KDE) are migrated to enchant (allow using OOo spell dictionaries)

4.3. KDE

Author	Anne NICOLAS
Version	0.1
Id	spec303
Team	Desktop Environments
Implementor	
Priority	3
Status	

4.3.1. Background management depending on hours in day

Implementor	KDE team
Priority	3
Status	0%

4.3.1.1. General specifications

Implement hourly management of background using xml configuration file.

4.3.2. KDE upgrade policy

Implementor	heliocastro@mandriva.com
Priority	3
Status	10%

4.3.2.1. General specifications

Write precise policy to upgrade between 2 versions of Mandriva:

- Describe KDE3 and KDE4 trees
- List all use cases in term of upgrade
- Provide test case for QA tests

4.3.3. krandr improvements

Implementor	boiko@mandriva.com
Priority	3
Status	70%

4.3.3.1. General specifications

Make krandr more integrated into KDE4.

4.3.4. KDE menu entries

Implementor	KDE Team
Priority	5
Status	0%

4.3.4.1. KDE Menu Entries

Configure menu to show only descriptions by default, instead of names and descriptions, since most of OEMs installations require this change.

4.4. GNOME

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec304
Team	Interface
Implementor	
Priority	3
Status	

4.4.1. GNOME 2.28

Implementor	frozat@mandriva.com
Priority	3
Status	10%

4.4.1.1. GNOME 2.28

Integrate latest version of GNOME : 2.28, which will be released on September 24 2009.

4.4.2. Port Ia-Ora to Cairo

Implementor	frozat@mandriva.com
Priority	3
Status	0%

4.4.2.1. Port Ia-Ora to cairo

Current GTK2 version of Ia-Ora theme is using gdk for drawing. Porting to Cairo would simplify code and rendering could be hardware acceleration on some systems.

4.4.3. Bluetooth cleanup (GNOME)

Implementor	frozat@mandriva.com
Priority	3
Status	50%

4.4.3.1. Improve Bluetooth support in GNOME

Bastien Nocera (from Fedora) has worked a lot on improving Bluetooth support in GNOME (and Fedora). Part of his work has been merged in Mdv 2008.1, we should resync with his progress.

4.4.4. Add theme support to GDM 2.28

Implementor	frozat@mandriva.com
Priority	3
Status	0%

4.4.4.1. Add theme support for GDM 2.28

GDM 2.28 is a full rewrite of GDM, which no longer supports themes, which was used for graphical login when using GDM. This is a regression, compared to gdm 2.20 and should be fixed.

4.4.5. Improve color management in GNOME

Implementor	frozat@mandriva.com
Priority	3
Status	0%

4.4.5.1. Improve color management in GNOME

GNOME doesn't support setting a color profile (using XICC specification) for screens and nautilus doesn't support color profile for background rendering. Those easy tasks would lead the path to improving color management in GNOME.

4.4.6. UI improvement in Mandriva GNOME

Implementor	frozat@mandriva.com
Priority	3
Status	0%

4.4.6.1. UI improvements in Mandriva GNOME

- add unmount / eject right click menu for removable entries in Places (in gnome-panel). Could be merged upstream
- add "About Mandriva(Linux)" in GNOME panel, opening manual describing the distribution

4.5. Applications

Author	Anne NICOLAS
Version	0.1
Id	spec306
Team	Desktop Environments
Implementor	
Priority	3
Status	

4.5.1. Make Windows programs emulation easier

Implementor	anicolas@mandriva.com
Priority	3
Status	0%

4.5.1.1. Make Windows programs emulation easier

- Review existing GUI for emulator
- Check status of packages and test it carefully

4.5.2. Update OpenOffice.Org

Implementor	cabral@mandriva.com
Priority	5
Status	0%

4.5.2.1. Update OpenOffice.org

- Update OpenOffice to version 3.1

4.5.3. Package CoGrOO

Implementor	cabral@mandriva.com
Priority	5
Status	0%

4.5.3.1. Package CrGrOO

- Add CrGrOO - OpenOffice.org Orthographic Corrector for Portuguese Language

4.5.4. OpenOffice.Org KDE 4 FilePicker

Implementor	cabral@mandriva.com, qtlab team
Priority	5
Status	10%

4.5.4.1. Usage of KDE4 FilePicker

- OpenOffice.org has no integration with KDE4, not using its default file picker. Users will benefit to have a common file picker across the desktop. Initial study were done with upstream, development still needed.

4.5.5. Amazon plugin for popular multimedia applications

Implementor	qtlab team, GNOME team
Priority	4
Status	0%

4.5.5.1. Provide integration for Amazon mp3 service

Amazon is now providing an offer so that users can buy mp3 online in a quite friendly way. Having this all integrated in most popular multimedia applications would make it much easier. We could start with Amarok and Rhythmbox.

Chapter 5. Infrastructure

5.1. Improve mirror management

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec400
Team	infrastructure
Implementor	fcrozat, romain
Priority	3
Status	70%

5.1.1. Abstract

Improve mirror management

5.1.2. Benefit

Better service for our users

5.1.3. Improve mirror management

The current issue should be improved / resolved :

- clean up mirror list, remove obsolete mirrors, add new mirrors
- handle incomplete mirrors in mirror list
- add new mirrors provided by Mandriva partners

5.2. SVN migration

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec401
Team	infrastructure
Implementor	Blino, Spuk
Priority	3
Status	10%

5.2.1. Abstract

Provide a new kind of data storage in svn to avoid disk problem

5.2.2. Benefit

Easier server administration

5.2.3. SVN migration

Part of prapration work was done by mrl. Needs to read detailed specs written by him Blino and Spuk need to speak about final specifications before starting tests. Bogdano already modified repsys for this migration. More tests needed also before migration

5.3. Improve general svn management

Author	Anne Nicolas <anne.nicolas@mandriva.com>
Version	0.1
Id	spec408
Team	infrastructure
Implementor	Spuk
Priority	3

Status	40%
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5.3.1. Abstract

Add some tools to help in general tasks in build system

5.3.2. Benefit

Monitor use of svn, help integration of new packagers

5.3.3. Develop some tools for svn

markrelease-watchdog: a script to monitor packages with commits pending a release

pkg-watcher: a script to allow for subscribing to commits to packages, and to mail commits from apprentice maintainers to their mentors

5.4. rpmlint improvements

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec402
Team	infrastructure
Implementor	oblin@mandriva.com, spuk@mandriva.com
Priority	3
Status	0%

5.4.1. Abstract

Improve rpmlint to reflect Mandriva packaging policy.

5.4.2. Benefit

Makes life easier for maintainers

5.4.3. rpmlint improvements

Implement our policies in rpmlint checks. List of these modifications has to be done: check opened enhancement bugs (for what I can see: 28215, 29543, 30627, 34482, ...), mail to maintainers mailing-list to complete it. Bogdano will add it, as soon as there is one opened bug by proposal with a tracker

5.5. youri upgrade

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec403
Team	infrastructure
Implementor	Blino, Spuk, Guillaume Rouse
Priority	3
Status	0%

5.5.1. Abstract

Get upstream version of youri in build system as current one is outdated

5.5.2. Benefit

Update build system components

5.5.3. youri upgrade

Needs some discussion with upstream team (Guillaume Rouse) and Blino, Spuk. The point is to get upstream version of youri, integrating needed features for Mandriva build system. This list must be done before starting work

5.6. Monitoring build system

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec404
Team	infrastructure
Implementor	nvigier@mandriva.com
Priority	3
Status	0%

5.6.1. Abstract

Set up common monitoring tools on build system

5.6.2. Benefit

Improve build system administration

5.6.3. Monitoring build system

Define final solution for all nodes so that we have complete monitoring and use same tools everywhere. Nicolas will make some proposals for tools to be used

5.7. Improve build dependancies in build system

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec405
Team	infrastructure
Implementor	bogdano@mandriva.com
Priority	3
Status	20%

5.7.1. Abstract

Provide a way to manage dependancies when building new version of one package

5.7.2. Benefit

Makes life easier for maintainers

5.7.3. Improve build dependancies in build system

Lots of maintainers complain on difficulties when they have to wait for dependancies build before submitting final package. Here is a solution that was discussed: allow multiple packages handling in repsy (we wait for Bogdano signal), provide and manage list of dependancies for such cases. This list will be provided by maintener and modify only by bs admins.

5.8. Reduce nodes number

Author	Anne Nicolas <anicolas@mandriva.com>
Version	0.1
Id	spec406
Team	infrastructure
Implementor	Blino, Spuk
Priority	3
Status	0%

5.8.1. Abstract

Reduce nodes number to get more efficient build cluster

5.8.2. Benefit

Reduce nodes number to get more efficient build cluster

5.8.3. Reduce nodes number

Allow official packages to be built only in Klodia and Tulsa (a new node as powerful as Klodia, to be added in bs). Keep other nodes for home directories and tests. Check with rtp we can use Tulsa (needs some cleaning)

5.9. Automatically clean testing repository

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec407
Team	infrastructure
Implementor	Spuk
Priority	3
Status	0%

5.9.1. Abstract

Remove packages from testing when they are no longer relevant

5.9.2. Benefit

Less clutter in testing repository

5.9.3. Automatically clean testing repository

When bugfix packages are first submitted in contrib/testing and then re-submitted to contrib/update, the initial testing package are not removed from contrib/testing and rpmctl doesn't allow to remove them (either on cooker or stable distro).

5.10. Automate kernel dependant package rebuild/upload

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec409
Team	
Implementor	Spuk
Priority	3
Status	0%

5.10.1. Abstract

Automate kernel dependant packages rebuild / upload

5.10.2. Benefit

Less error, less lost time waiting for packages

5.10.3. Automate kernel dependant package rebuild/upload

Some packages need to be rebuild when a new kernel or drakx-installer-stage2 are uploaded, to rebuild Mandriva installer (drakx-installer-images, all dkms, etc..). Being able to let youri automatically push a new package for rebuild would ensure rebuild isn't forgotten. Old kernels package should be removed automatically when new kernel are uploaded, as well as corresponding dkms packages (when rebuildled). non-free DKMS packages should also be rebuild automatically and pushed in non-free repository.

5.11. Improve DKMS package management

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec410
Team	

Implementor	Spuk, Blino
Priority	3
Status	0%

5.11.1. Abstract

Improve DKMS automation for package management

5.11.2. Benefit

More automation, Less manual work

5.11.3. Automate kernel dependant package rebuild/upload

Currently, DKMS packages are only rebuild when the next night (Paris time) a kernel is pushed on repository. Error build log aren't mailed anywhere and are very difficult to obtain. It isn't possible to easily rebuild one specific DKMS package, when it failed. DKMS should be rebuild as soon as a new kernel is available (it can be critical in distro release period), privileged users should be able to request new build. Build log should be mailed to maintainers list when failure occurs.

5.12. Auto build One ISO

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec411
Team	
Implementor	cfergeau@mandriva.com
Priority	3
Status	0%

5.12.1. Abstract

Autobuild One ISO

5.12.2. Benefit

More automation, Less manual work

5.12.3. Automate One ISO generation

Currently, One ISO are being regenerate before each alpha/beta/rc release, which can be very time consuming when one breakage was introduced in cooker weeks before the release. Having a automated One ISO generation bot running each week (or each day) would allow to catch those regressions earlier.

5.13. Clean GPG repository keys

Author	Frederic Crozat <fcrozat@mandriva.com>
Version	0.1
Id	spec412
Team	
Implementor	cfergeau@mandriva.com
Priority	3
Status	0%

5.13.1. Abstract

Clean GPG repository keys

5.13.2. Benefit

Sort keys mess

5.13.3. GPG keys repository cleanup

We should ensure we only have one specific key for each repository, not signed with old obsolete email address and document this in wiki.