

TDebs

Neil Williams

Background

Introduction

Timescale

Work so far

Specification

Chapter 1

Chapter 2

Chapter 3

Chapter 6

ToDo list

What needs to
be done and
when

Changes in
packages

Modifications

People

Thanks

TDebs

A guide to the Draft TDeb Specification.

Neil Williams

February 10, 2009

Translation packages contain all localisation data for one source package and are designed to help solve several problems in Debian:

Translation packages contain all localisation data for one source package and are designed to help solve several problems in Debian:

- Translation updates should not require a source rebuild, either by the maintainer or as an NMU.

Translation packages contain all localisation data for one source package and are designed to help solve several problems in Debian:

- Translation updates should not require a source rebuild, either by the maintainer or as an NMU.
- Localisation data should not be distributed in architecture dependent packages.

Translation packages contain all localisation data for one source package and are designed to help solve several problems in Debian:

- Translation updates should not require a source rebuild, either by the maintainer or as an NMU.
- Localisation data should not be distributed in architecture dependent packages.
- Translators should have a common interface for getting updates into Debian (possibly with automated TDeb generation after i18n team review).

Background

Introduction

Timescale

Work so far

Specification

Chapter 1

Chapter 2

Chapter 3

Chapter 6

ToDo list

What needs to
be done and
whenChanges in
packages

Modifications

People

Thanks

TDebs have been debated and discussed for several years with various methods proposed. The Draft TDeb Specification borrows from established methods from the embedded world.

TDebs have been debated and discussed for several years with various methods proposed. The Draft TDeb Specification borrows from established methods from the embedded world.

- 2006 - Debian i18n meeting in Extremadura sets out the problem and initial ideas.

TDebs have been debated and discussed for several years with various methods proposed. The Draft TDeb Specification borrows from established methods from the embedded world.

- 2006 - Debian i18n meeting in Extremadura sets out the problem and initial ideas.
- DebConf7 - more ideas and discussion.

TDebs have been debated and discussed for several years with various methods proposed. The Draft TDeb Specification borrows from established methods from the embedded world.

- 2006 - Debian i18n meeting in Extremadura sets out the problem and initial ideas.
- DebConf7 - more ideas and discussion.
- DebConf8 - overview agreed between i18n and ftp-master.

TDebs have been debated and discussed for several years with various methods proposed. The Draft TDeb Specification borrows from established methods from the embedded world.

- 2006 - Debian i18n meeting in Extremadura sets out the problem and initial ideas.
- DebConf7 - more ideas and discussion.
- DebConf8 - overview agreed between i18n and ftp-master.
- 2008 - Debian i18n/ftpmaster meeting in Extremadura prepares the Draft TDeb Specification.

TDebs have been debated and discussed for several years with various methods proposed. The Draft TDeb Specification borrows from established methods from the embedded world.

- 2006 - Debian i18n meeting in Extremadura sets out the problem and initial ideas.
- DebConf7 - more ideas and discussion.
- DebConf8 - overview agreed between i18n and ftp-master.
- 2008 - Debian i18n/ftpmaster meeting in Extremadura prepares the Draft TDeb Specification.
- 2008 - Emdebian implements modified TDebs with extra features for embedded usage.

TDebs have been debated and discussed for several years with various methods proposed. The Draft TDeb Specification borrows from established methods from the embedded world.

- 2006 - Debian i18n meeting in Extremadura sets out the problem and initial ideas.
- DebConf7 - more ideas and discussion.
- DebConf8 - overview agreed between i18n and ftp-master.
- 2008 - Debian i18n/ftpmaster meeting in Extremadura prepares the Draft TDeb Specification.
- 2008 - Emdebian implements modified TDebs with extra features for embedded usage.
- 2009 - Lenny release allows work to start on preparing the Debian toolset to work with the Draft TDeb Specification.

- The binary package format is a variation of the deb binary package format. It has the same structure as deb, but the (single) data member is replaced by bzip2-compressed members for each LOCALE_ROOT supported.

- The binary package format is a variation of the deb binary package format. It has the same structure as deb, but the (single) data member is replaced by bzip2-compressed members for each LOCALE_ROOT supported.
- The members following the control.tar.bz2 are named `t.${LOCALE_ROOT}.tar.bz2`

- The binary package format is a variation of the deb binary package format. It has the same structure as deb, but the (single) data member is replaced by bzip2-compressed members for each LOCALE_ROOT supported.
- The members following the control.tar.bz2 are named `t.${LOCALE_ROOT}.tar.bz2`
- LOCALE_ROOT must match the regular expression `[a-z]{2,3}`

- The binary package format is a variation of the deb binary package format. It has the same structure as deb, but the (single) data member is replaced by bzip2-compressed members for each LOCALE_ROOT supported.
- The members following the control.tar.bz2 are named `t.${LOCALE_ROOT}.tar.bz2`
- LOCALE_ROOT must match the regular expression `[a-z]{2,3}`
- e.g. Locale: pt_BR Locale Root: pt

- The binary package format is a variation of the deb binary package format. It has the same structure as deb, but the (single) data member is replaced by bzip2-compressed members for each LOCALE_ROOT supported.
- The members following the control.tar.bz2 are named `t.${LOCALE_ROOT}.tar.bz2`
- LOCALE_ROOT must match the regular expression `[a-z]{2,3}`
- e.g. Locale: pt_BR Locale Root: pt
- Emdebian currently implements 98 locale roots.

- The binary package format is a variation of the deb binary package format. It has the same structure as deb, but the (single) data member is replaced by bzip2-compressed members for each LOCALE_ROOT supported.
- The members following the control.tar.bz2 are named `t.${LOCALE_ROOT}.tar.bz2`
- LOCALE_ROOT must match the regular expression `[a-z]{2,3}`
- e.g. Locale: pt_BR Locale Root: pt
- Emdebian currently implements 98 locale roots.
- Future development can support isolating individual locales from a set of packages without installing unsupported localisation data.

TDebs will use a supplementary diff.gz for translation updates.

- Isolate changes to translations from the rest of the source package

TDebs will use a supplementary diff.gz for translation updates.

- Isolate changes to translations from the rest of the source package
- No changes will be allowed in the package binaries or untranslated content.

TDebs will use a supplementary diff.gz for translation updates.

- Isolate changes to translations from the rest of the source package
- No changes will be allowed in the package binaries or untranslated content.
- Uploads by Debian maintainers are assumed to be t0.

TDebs will use a supplementary diff.gz for translation updates.

- Isolate changes to translations from the rest of the source package
- No changes will be allowed in the package binaries or untranslated content.
- Uploads by Debian maintainers are assumed to be t0.
- During the transition to TDebs, +t1 uploads will be able to close [i18n] bugs assigned to the source package. After Squeeze, i18n.debian.org will take over translation tracking.

There is room for further discussion about whether and how much untranslated content can or should be in a TDeb.

Generally, a TDeb will (eventually) contain:

- Translations from upstream -
`/usr/share/locale/*/LC_MESSAGES/*.mo`

There is room for further discussion about whether and how much untranslated content can or should be in a TDeb.

Generally, a TDeb will (eventually) contain:

- Translations from upstream -
/usr/share/locale/*/LC_MESSAGES/*.mo
- Other localisation files from upstream -
/usr/share/locale/*/LC_*/*

There is room for further discussion about whether and how much untranslated content can or should be in a TDeb.

Generally, a TDeb will (eventually) contain:

- Translations from upstream -
/usr/share/locale/*/LC_MESSAGES/*.mo
- Other localisation files from upstream -
/usr/share/locale/*/LC_*/*
- Debconf templates file

There is room for further discussion about whether and how much untranslated content can or should be in a TDeb.

Generally, a TDeb will (eventually) contain:

- Translations from upstream -
/usr/share/locale/*/LC_MESSAGES/*.mo
- Other localisation files from upstream -
/usr/share/locale/*/LC_*/*
- Debconf templates file
- Translated content, including translated manpages,
translated documentation

There is room for further discussion about whether and how much untranslated content can or should be in a TDeb.

Generally, a TDeb will (eventually) contain:

- Translations from upstream -
/usr/share/locale/*/LC_MESSAGES/*.mo
- Other localisation files from upstream -
/usr/share/locale/*/LC_*/*
- Debconf templates file
- Translated content, including translated manpages, translated documentation
- Packages with large amounts of translated documentation and debconf templates would create two tdebs, one minimal tdeb for debconf and one for the rest.

There is room for further discussion about whether and how much untranslated content can or should be in a TDeb.

Generally, a TDeb will (eventually) contain:

- Translations from upstream -
/usr/share/locale/*/LC_MESSAGES/*.mo
- Other localisation files from upstream -
/usr/share/locale/*/LC_*/*
- Debconf templates file
- Translated content, including translated manpages, translated documentation
- Packages with large amounts of translated documentation and debconf templates would create two tdebs, one minimal tdeb for debconf and one for the rest.
- Not the config or other related scripts. The regular deb will need to contain a untranslated copy of the templates file, too.

- LINGUAS is an upstream file (often implemented as a variable within `configure.ac` or `configure.in`). Changes lead to a source rebuild.

- LINGUAS is an upstream file (often implemented as a variable within `configure.ac` or `configure.in`). Changes lead to a source rebuild.
- TDeb generation avoids LINGUAS and processes all `.po` files in all `po-?*/` directories. Packages will no longer be able to have unactivated or unused translations.

- LINGUAS is an upstream file (often implemented as a variable within `configure.ac` or `configure.in`). Changes lead to a source rebuild.
- TDeb generation avoids LINGUAS and processes all `.po` files in all `po-?*/` directories. Packages will no longer be able to have unactivated or unused translations.
- Current code for generating TDebs needs to be extended to cope with non-gettext translations, where possible.

- LINGUAS is an upstream file (often implemented as a variable within `configure.ac` or `configure.in`). Changes lead to a source rebuild.
- TDeb generation avoids LINGUAS and processes all `.po` files in all `po-?*/` directories. Packages will no longer be able to have unactivated or unused translations.
- Current code for generating TDebs needs to be extended to cope with non-gettext translations, where possible.
- Translated packages do not need to make changes to generate TDebs until after the release of Squeeze but splitting l10n data into separate Arch: all `.deb` packages can be done beforehand.

Background

Introduction

Timescale

Work so far

Specification

Chapter 1

Chapter 2

Chapter 3

Chapter 6

ToDo list

**What needs to
be done and
when**Changes in
packages

Modifications

People

Thanks

- Archive and tools support

- Archive and tools support
- tdeb binary file definition - (ratification and review)

Background

Introduction

Timescale

Work so far

Specification

Chapter 1

Chapter 2

Chapter 3

Chapter 6

ToDo list

**What needs to
be done and
when**Changes in
packages

Modifications

People

Thanks

- Archive and tools support
- tdeb binary file definition - (ratification and review)
- tdeb source file definition - (development and testing)
incorporate the tdiff and improve dpkg-source building support.

- Archive and tools support
- tdeb binary file definition - (ratification and review)
- tdeb source file definition - (development and testing) incorporate the tdiff and improve dpkg-source building support.
- debhelper support for both tdebs explicitly, and also marking files into classes in general (partially implemented via dh_gentdeb in git)

- Archive and tools support
- tdeb binary file definition - (ratification and review)
- tdeb source file definition - (development and testing) incorporate the tdiff and improve dpkg-source building support.
- debhelper support for both tdebs explicitly, and also marking files into classes in general (partially implemented via dh_gentdeb in git)
- provide a patch to cdb for running dh_gentdeb in the right place. (Done - only remains for the patch to be filed and applied, after Lenny).

- Archive and tools support
- tdeb binary file definition - (ratification and review)
- tdeb source file definition - (development and testing) incorporate the tdiff and improve dpkg-source building support.
- debhelper support for both tdebs explicitly, and also marking files into classes in general (partially implemented via dh_gentdeb in git)
- provide a patch to cdb for running dh_gentdeb in the right place. (Done - only remains for the patch to be filed and applied, after Lenny).
- apt and aptitude support for pulling in and removing tdebs (ensure TDeb is accessible to apt-extracttemplates).

- Archive and tools support
- tdeb binary file definition - (ratification and review)
- tdeb source file definition - (development and testing) incorporate the tdiff and improve dpkg-source building support.
- debhelper support for both tdebs explicitly, and also marking files into classes in general (partially implemented via dh_gentdeb in git)
- provide a patch to cdb for running dh_gentdeb in the right place. (Done - only remains for the patch to be filed and applied, after Lenny).
- apt and aptitude support for pulling in and removing tdebs (ensure TDeb is accessible to apt-extracttemplates).
- debdiff and other devscripts support (debc)

- Archive and tools support
- tdeb binary file definition - (ratification and review)
- tdeb source file definition - (development and testing) incorporate the tdiff and improve dpkg-source building support.
- debhelper support for both tdebs explicitly, and also marking files into classes in general (partially implemented via dh_gentdeb in git)
- provide a patch to cdb for running dh_gentdeb in the right place. (Done - only remains for the patch to be filed and applied, after Lenny).
- apt and aptitude support for pulling in and removing tdebs (ensure TDeb is accessible to apt-extracttemplates).
- debdiff and other devscripts support (debc)
- dak support (run away, run away) run faster

- Archive and tools support
- tdeb binary file definition - (ratification and review)
- tdeb source file definition - (development and testing) incorporate the tdiff and improve dpkg-source building support.
- debhelper support for both tdebs explicitly, and also marking files into classes in general (partially implemented via dh_gentdeb in git)
- provide a patch to cdb for running dh_gentdeb in the right place. (Done - only remains for the patch to be filed and applied, after Lenny).
- apt and aptitude support for pulling in and removing tdebs (ensure TDeb is accessible to apt-extracttemplates).
- debdiff and other devscripts support (debc)
- dak support (run away, run away) run faster
- lintian support

Background

Introduction

Timescale

Work so far

Specification

Chapter 1

Chapter 2

Chapter 3

Chapter 6

ToDo list

**What needs to
be done and
when**Changes in
packages

Modifications

People

Thanks

- Convert debconf translation into the first TDebs (Squeeze + 1)

Background

Introduction

Timescale

Work so far

Specification

Chapter 1

Chapter 2

Chapter 3

Chapter 6

ToDo list

**What needs to
be done and
when**Changes in
packages

Modifications

People

Thanks

- Convert debconf translation into the first TDebs (Squeeze + 1)
- dpkg class support - (make it easier to selectively install translations for specific locale roots).

- Convert debconf translation into the first TDebs (Squeeze + 1)
- dpkg class support - (make it easier to selectively install translations for specific locale roots).
- Support packages using non-gettext translations. Packages using non-gettext mechanisms include OOo, mozilla, Qt or Java properties, menus, desktop.)

- Convert debconf translation into the first TDebs (Squeeze + 1)
- dpkg class support - (make it easier to selectively install translations for specific locale roots).
- Support packages using non-gettext translations. Packages using non-gettext mechanisms include OOo, mozilla, Qt or Java properties, menus, desktop.)
- Convert native packages with program translations to using TDebs (Squeeze + 1 or possibly later)

- Convert debconf translation into the first TDebs (Squeeze + 1)
- dpkg class support - (make it easier to selectively install translations for specific locale roots).
- Support packages using non-gettext translations. Packages using non-gettext mechanisms include OOo, mozilla, Qt or Java properties, menus, desktop.)
- Convert native packages with program translations to using TDebs (Squeeze + 1 or possibly later)
- Convert non-native packages with Debian maintainers who are also the upstream.

- Convert debconf translation into the first TDebs (Squeeze + 1)
- dpkg class support - (make it easier to selectively install translations for specific locale roots).
- Support packages using non-gettext translations. Packages using non-gettext mechanisms include OOo, mozilla, Qt or Java properties, menus, desktop.)
- Convert native packages with program translations to using TDebs (Squeeze + 1 or possibly later)
- Convert non-native packages with Debian maintainers who are also the upstream.
- Convert non-gettext packages and non-native packages where the Debian maintainer is not part of the upstream. (Squeeze +2?)

Maintainers will need to make a variety of changes to support TDebs:

- Replaces - Add the recommended \$src-tdeb package name with Replaces: \$binaries (<< \$srcversion) where \$srcversion is a fixed string for the version prior to TDebs
- e.g. Replaces: apt (<< 0.7.19), apt-utils (<< 0.7.19)

Maintainers will need to make a variety of changes to support TDebs:

- Replaces - Add the recommended \$src-tdeb package name with Replaces: \$binaries (<< \$srcversion) where \$srcversion is a fixed string for the version prior to TDebs
- e.g. Replaces: apt (<< 0.7.19), apt-utils (<< 0.7.19)
- Remove translated content from all *.install files in debian/

Maintainers will need to make a variety of changes to support TDebs:

- Replaces - Add the recommended \$src-tdeb package name with Replaces: \$binaries (<< \$srcversion) where \$srcversion is a fixed string for the version prior to TDebs
- e.g. Replaces: apt (<< 0.7.19), apt-utils (<< 0.7.19)
- Remove translated content from all *.install files in debian/
- Remove any lines in debian/rules that handle translated content

Maintainers will need to make a variety of changes to support TDebs:

- Replaces - Add the recommended \$src-tdeb package name with Replaces: \$binaries (<< \$srcversion) where \$srcversion is a fixed string for the version prior to TDebs
- e.g. Replaces: apt (<< 0.7.19), apt-utils (<< 0.7.19)
- Remove translated content from all *.install files in debian/
- Remove any lines in debian/rules that handle translated content
- Ensure that dh_gentdeb is called in debian/rules (CDBS will be patched to implement this support automatically).

Background

Introduction

Timescale

Work so far

Specification

Chapter 1

Chapter 2

Chapter 3

Chapter 6

ToDo list

What needs to
be done and
whenChanges in
packages

Modifications

People

Thanks

<http://www.emdebian.org/>

Many individuals : Joerg Jaspert, Thomas Viehmann, Mark Hymers, Frank Lichtenheld, Christian Perrier, Stephen Gran, Luk Claes, EddyPetrisor, Steve McIntyre, Jonathan McDowell, Moray Allan, Aurelien Jarno and anyone I might have forgotten.