The New QPKG and AppCenter

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| Version | Date | Author(s) | Comments |
| 0.1 | 9 May 2014 | Doro | Initial Scope |

1. Problems to Solve 1

2. QPKG 1

QPKG Format 1

Reference 3

3. Build QPKG on Ubuntu by qdk-ng 3

4. Package Management 3

5. IAC 4

Unified System Event and Callback Interface 4

# Problems to Solve

* Pack QPKG easily
  + Tool chain
* Package Management
  + Dependency
  + Backup or Migration between NAS, consider
    - Different NAS Hardware and version
    - File permissions and owner
* Inter-Application Communication

# QPKG

## Open With

MIME

Mime-support

template-${version}/QNAP/template-${version}.mime

/usr/local/mime/packages/

/etc/mime.types

application/x-dell-driver; dell-driver-installer '%s'

text/html html htm shtml

text/plain txt srt

## Best Practice

Package Source Layout

└── template-abba

├── etc

├── QNAP

│ ├── changelog

│ ├── control

│ ├── rules

│ ├── template-abba.config

│ ├── template-abba.dirs

│ ├── template-abba.init

│ ├── template-abba.install

│ ├── template-abba.links

│ ├── template-abba.mime

│ ├── template-abba.postinst

│ ├── template-abba.postrm

│ ├── template-abba.preinst

│ └── template-abba.prerm

└── usr

├── bin

├── lib

├── local

│ ├── bin

│ ├── lib

│ └── share

└── share

QNAP/control

Source: template-abba

Section: python

Vcs-Bzr: lp:~oem-solutions-group/dell/template-abba

Homepage: http://123.com.tw/

Priority: extra

Build-Depends: cdbs (>= 0.4.43),

debhelper (>= 6),

python,

python-support (>= 0.6.4),

python-distutils-extra (>= 2.10)

Maintainer: Doro Wu <dorowu@qnap.com>

Package: template-abba

Architecture: all

Q-AppName: Template Abba

Q-Firmware: qnap (>= 4.1), qnap (<< 4.2)

Recommends: python-xlsxwriter

Depends: python (<< 3.0), python (>= 2.6),

python-launchpadlib,

python-distutils-extra,

python-jinja2,

sshfs

Conflicts: lp-fish-init (<< 0.4)

Description: Utility scripts for OEM Dell enablement

UNKNOWN

## Reference

* Debian New Maintainers' Guide, <https://www.debian.org/doc/manuals/maint-guide/>
* Debian Policy Manual, <https://www.debian.org/doc/debian-policy>

# Build QPKG on Ubuntu by qdk-ng

sudo add-apt-repository ppa:fcwu-tw/ppa

sudo apt-get update

sudo apt-get install qpkg-ng

qpkg-ng will be landed Ubuntu 12.04 and 14.04

qbuild-ng {build|create}

# Package Management

In /etc/config/sources.list

qpkg <http://update.qnap.com/qts/> 4.2 main extra

[http://update.qnap.com/qts/dists/4.2/main/binary-${arch}/Packages.{bz2](http://update.qnap.com/qts/dists/4.2/main/binary-$%7barch%7d/Packages.%7bbz2), gz,}

[http://update.qnap.com/qts/dists/4.2/extra/binary-${arch}/Packages.{bz2](http://update.qnap.com/qts/dists/4.2/extra/binary-$%7barch%7d/Packages.%7bbz2), gz,}

Package: account-plugin-aim

Priority: optional

Section: gnome

Installed-Size: 941

Maintainer: Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>

Architecture: amd64

Source: empathy

Version: 3.8.6-0ubuntu9

Depends: empathy (= 3.8.6-0ubuntu9), telepathy-haze, mcp-account-manager-uoa, unity-asset-pool (>> 0.8.24daily13.03.20.1)

Breaks: account-plugin-empathy

Filename: pool/main/e/empathy/account-plugin-aim\_3.8.6-0ubuntu9\_amd64.deb

Size: 8838

MD5sum: f7f709442600bb60bc5e230f905773ae

SHA1: 588d6aa693e4b9a9bda228360bc65dfab4527ed8

SHA256: 4a34e416bb37191d0b8e6855b27cdbf7cd63fec182ab415cc9e71b19cfe55e48

Description: Messaging account plugin for AIM

Homepage: http://wiki.gnome.org/Empathy

Description-md5: 1a2069e5dd5f4777061642b2d7c9a76a

Bugs: https://bugs.launchpad.net/ubuntu/+filebug

Origin: Ubuntu

Supported: 5y

Task: ubuntu-desktop, ubuntu-usb, edubuntu-desktop, edubuntu-usb

## Commands

qpt install -> qpt-install

qpt remove -> qpt-remove

qpt search -> qpt-search

qpt update -> qpt-update

## Reference

* <https://www.debian.org/doc/manuals/repository-howto/repository-howto>
* <https://help.ubuntu.com/community/Repositories/Personal>

# QNAP Inter-Application Communication (QIAC)

1. Power
   1. Poweroff, suspend (hook, such as pm-utils)
2. Network
   1. Connect/Disconnect, address changed (ip monitor)
3. Uevent
   1. Hotplug (udevadm monitor)
4. Locate changed

