pkginfo files

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dic+>
     <key>_metadata</key>
    <dict>
         <key>created_by</key>
         <string>gneagle</string>
         <key>creation_date</key>
         <date>2016-11-02T17:24:20Z</date>
         <key>munki_version</key>
         <string>2.8.2.2855</string>
         <key>os_version</key>
         <string>10.12.1
     </dict>
     <key>uutorelllove</key>
    <false/>
    <key>catalogs</key>
    <array>
         <string>production</string>
    </array>
     <key>category</key>
    <string>Internet</string>
    <key>description</key>
     <string>Google's web browser.</string>
    <key>developer</key>
     <string>Google</string>
     <key>display_name</key>
     <string>Google Chrome</string>
     <key>installer_item_hash</key>
     <string>9af86ddd7f22c017a680d5c5874c866f313fe6924d598c0f72c5aefd5e810956</string>
     <key>installer_item_location</key>
    <string>apps/GoogleChrome-54.0.2840.87.dmg</string>
     <key>installer_item_size</key>
    <integer>61897</integer>
```

<kev>installer type</kev>

```
<key>os_version</key>
    <string>10.12.1
</dict>
<key>autoremove</key>
falco/
<key>catalogs</key>
                                                                catalogs array:
<array>
    <string>production</string>
                                                              super important!
</array>
<key>category</key>
<string>Internet</string>
<key>description</key>
<string>Google's web browser.</string>
<key>developer</key>
<string>Google</string>
<key>display_name</key>
<string>Google Chrome</string>
<key>installer_item_hash</key>
<string>9af86ddd7f22c017a680d5c5874c866f313fe6924d598c0f72c5aefd5e810956</string>
<key>installer_item_location</key>
<string>apps/GoogleChrome-54.0.2840.87.dmg</string>
<key>installer_item_size</key>
<integer>61897</integer>
<key>installer_type</key>
<string>copy_from_dmg</string>
<key>installs</key>
<array>
    <dict>
         <key>CFBundleIdentifier</key>
         <string>com.google.Chrome</string>
         <key>CFBundleName</key>
         <string>Chrome</string>
         <key>CFBundleShortVersionString</key>
         <string>54.0.2840.87</string>
         <key>CFBundleVersion</key>
         <string>2840.87</string>
         ~kev~minosversion~/kev~
```

```
<key>os_version</key>
     <string>10.12.1
</dict>
<key>autoremove</key>
<false/>
<key>catalogs</key>
<array>
     <string>production</string>
</arrav>
<key>category</key>
<string>Internet</string>
<key>aescription</key>
<string>Google's web browser.</string>
<key>developer</key>
<string>Google</string>
<key>display_name</key>
<string>Google Chrome</string>
<key>installer_item_hash</key>
<string>9af86ddd7f22c017a680d5c5874c866f313fe6924d598c0f72c5aefd5e810956</string>
                                        Managed Software Center
                                                  My Items
                                                          Updates
                                          Categories
```



Google Chrome

Google's web browser.



Information

Category: Internet Version: 54.0.2840.87

Q Search

Size: 60.4 MB Developer: Google

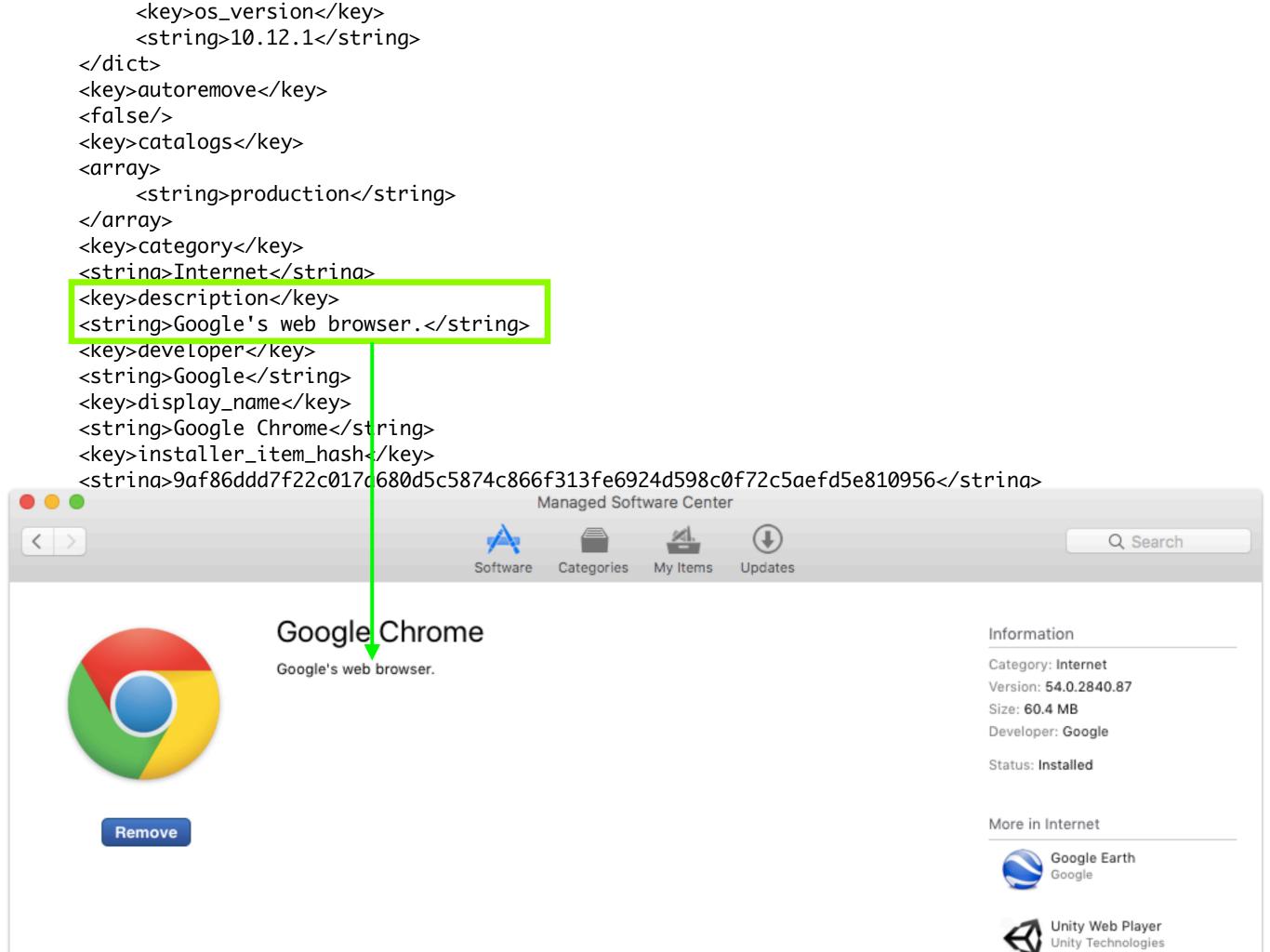
Status: Installed

More in Internet



Google Earth Google





```
<key>os_version</key>
     <string>10.12.1
</dict>
<key>autoremove</key>
<false/>
<key>catalogs</key>
<array>
     <string>production</string>
</array>
<key>category</key>
<string>Internet</string>
<key>description</key>
<string>Google's web browser.</string>
<key>developer</key>
<string>Google</string>
<key>alsplay_name</key>
<string>Google Chrome</string>
<key>installer_item_hash</key>
<strina>9af86ddd7f22c017a680d5c5874c866f313fe6924d598c0f72c5aefd5e810956</strina>
                                           Managed Software Center
                                                                                                  Q Search
                                              Categories
                                                       My Items
                                                               Updates
                   Google Chrome
                                                                                       Information
                                                                                       Category: Internet
                   Google's web browser.
                                                                                       Version: 54.0.2840.87
                                                                                       Size: 60.4 MB
                                                                                       Developer: Google
                                                                                       Status: Installed
                                                                                       More in Internet
   Remove
```

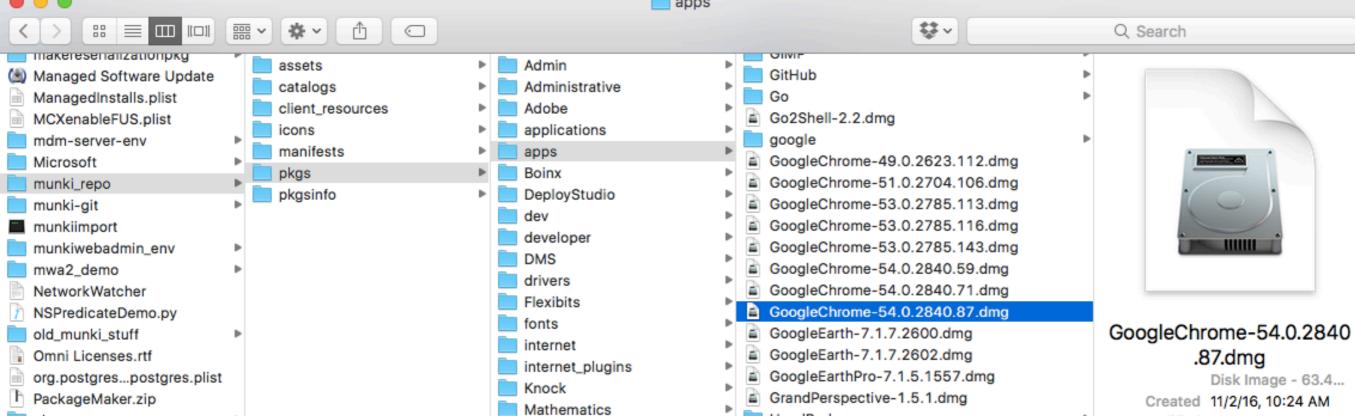
Google Earth

Unity Web Player Unity Technologies

```
<key>os_version</key>
     <string>10.12.1
</dict>
<key>autoremove</key>
<false/>
<key>catalogs</key>
<array>
     <string>production</string>
</array>
<key>category</key>
<string>Internet</string>
<key>description</key>
<string>Google's web browser.</string>
<key>developer</key>
<strina>Gooale</strina>
<key>display_name</key>
<string>Google Chrome</string>
<key>installer_item_nasn</key>
<strina>9af86ddd7f22c017a680d5
5874c866f313fe6924d598c0f72c5aefd5e810956
                                            Managed Software Center
                                                                                                   Q Search
                                      Software
                                              Categories
                                                       My Items
                                                               Updates
                   Google Chrome
                                                                                       Information
                                                                                       Category: Internet
                   Google's web browser.
                                                                                       Version: 54.0.2840.87
                                                                                       Size: 60.4 MB
                                                                                       Developer: Google
                                                                                       Status: Installed
                                                                                       More in Internet
   Remove
                                                                                             Google Earth
                                                                                             Unity Web Player
```

Unity Technologies

```
<key>os_version</key>
     <string>10.12.1
</dict>
<key>autoremove</key>
<false/>
<key>catalogs</key>
<array>
     <string>production</string>
</array>
<key>category</key>
<string>Internet</string>
<key>description</key>
<string>Google's web browser.</string>
<key>developer</key>
<string>Google</string>
<key>display_name</key>
<string>Google Chrome</string>
<key>installer_item_hash</key>
<strina>9af86ddd7f22c017a680d5c5874c866f313fe6924d598c0f72c5aefd5e810956</string>
<key>installer_item_location</key>
<string>apps/GoogleChrome-54.0.2840.87.dmg</string>
                                               apps
                                                                    ## v
                中 ~
                     Ô
            000 ~
                          \odot
                                    Admin
                assets
                                                        GitHub
```



```
<key>installer_item_size</key>
<integer>61897</integer>
<key>installer_type</key>
<string>copy_from_dmg</string>
<key>tnstatts</key>
<array>
     <dict>
         <key>CFBundleIdentifier</key>
         <string>com.google.Chrome</string>
         <key>CFBundleName</key>
         <string>Chrome</string>
         <key>CFBundleShortVersionString</key>
         <string>54.0.2840.87</string>
         <key>CFBundleVersion</key>
         <string>2840.87</string>
         <key>minosversion</key>
         <string>10.9.0</string>
         <key>path</key>
         <string>/Applications/Google Chrome.app</string>
         <key>type</key>
         <string>application</string>
         <key>version_comparison_key</key>
         <string>CFBundleShortVersionString</string>
     </dict>
</array>
<key>items_to_copy</key>
<array>
     <dict>
         <key>destination_path
         <string>/Applications</string>
         <key>source_item</key>
         <string>Google Chrome.app</string>
     </dict>
</array>
<key>minimum_os_version</key>
<string>10.9.0</string>
dear name //ear
```

```
<key>installer_item_size</key>
<integer>61897</integer>
<key>installer_type</key>
<string>copy_from_dmg</string>
<key>installs</key>
<array>
    <dict>
         <key>CFBundleIdentifier</key>
         <string>com.google.Chrome</string>
         <key>CFBundleName</key>
         <string>Chrome</string>
         <key>CFBundleShortVersionString</key>
         <string>54.0.2840.87</string>
         <key>CFBundleVersion</key>
         <string>2840.87</string>
         <key>minosversion</key>
         <string>10.9.0</string>
         <key>path</key>
         <string>/Applications/Google Chrome.app</string>
         <key>type</key>
         <string>application</string>
         <key>version_comparison_key</key>
         <string>CFBundleShortVersionString</string>
    </dict>
</arrav>
<key>items_to_copy</key>
<array>
    <dict>
         <key>destination_path
         <string>/Applications</string>
         <key>source_item</key>
         <string>Google Chrome.app</string>
    </dict>
</array>
<key>minimum_os_version</key>
<string>10.9.0</string>
dear name //ear
```

```
<key>installer_item_size</key>
<integer>61897</integer>
<key>installer_type</key>
<string>copy from dma</string>
<key>installs</key>
<array>
    <dict>
         <key>CFBundleIdentifier</key>
         <string>com.google.Chrome</string>
         <key>CFBundleName</key>
         <string>Chrome</string>
         <key>CFBundleShortVersionString</key>
         <string>54.0.2840.87</string>
         <key>CFBundleVersion</key>
         <string>2840.87</string>
         <key>minosversion</key>
         <string>10.9.0</string>
         <key>path</key>
         <string>/Applications/Google Chrome.app</string>
         <key>type</key>
         <string>application</string>
         <key>version_comparison_key</key>
         <string>CFBundleShortVersionString</string>
    </dict>
</array>
<key>ltems_to_copy</key>
<array>
    <dict>
         <key>destination_path
         <string>/Applications</string>
         <key>source_item</key>
         <string>Google Chrome.app</string>
    </dict>
</array>
<key>minimum_os_version</key>
<string>10.9.0</string>
1/01/2 namo ///01/2
```

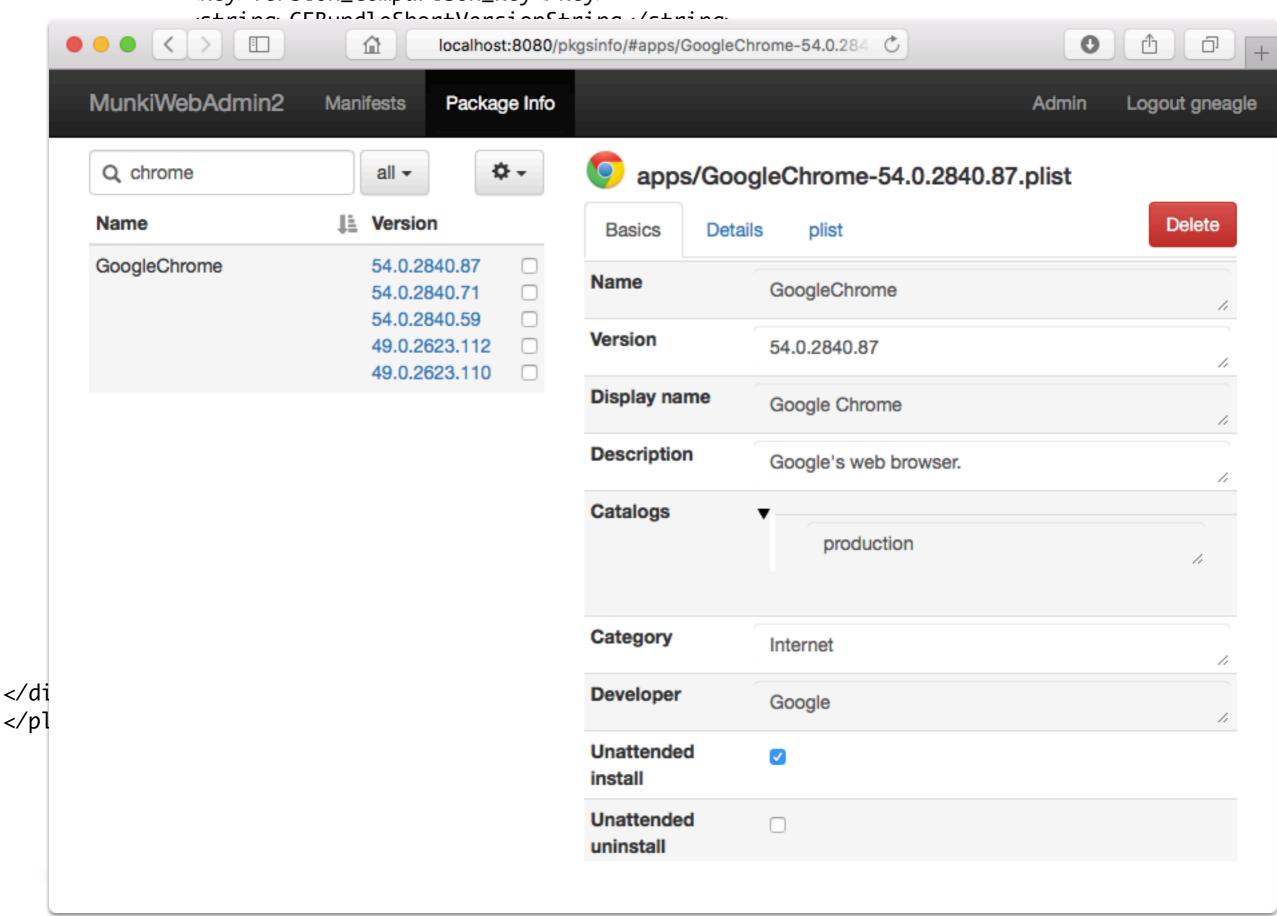
installs array: super important!

```
<string>application</string>
              <key>version_comparison_key</key>
              <string>CFBundleShortVersionString
         </dict>
    </array>
    <key>items_to_copy</key>
    <array>
         <dict>
              <key>destination_path/key>
              <string>/Applications</string>
              <key>source_item</key>
              <string>Google Chrome.app</string>
         </dict>
    </arrav>
    <key>minimum_os_version</key>
    <string>10.9.0</string>
    <key>name</key>
    <string>GoogleChrome</string>
    <key>unattended_install
    <true/>
    <key>uninstall_method</key>
    <string>remove_copied_items</string>
    <key>uninstallable/key>
    <true/>
    <key>version</key>
    <string>54.0.2840.87</string>
</dict>
</plist>
```

```
<string>application</string>
              <key>version_comparison_key</key>
              <string>CFBundleShortVersionString
         </dict>
    </array>
    <key>items_to_copy</key>
    <array>
         <dict>
              <key>destination_path/key>
              <string>/Applications</string>
              <key>source_item</key>
              <string>Google Chrome.app</string>
         </dict>
    </array>
    <key>minimum_os_version</key>
     <string>10 9 0</string>
    <key>name</key>
    <string>GoogleChrome</string>
    <key>unattenaea_thstalt</key>
    <true/>
    <key>uninstall_method</key>
    <string>remove_copied_items</string>
    <key>uninstallable/key>
    <true/>
    <key>version</key>
    <string>54.0.2840.87</string>
</dict>
</plist>
```

name: super important!

<string>application</string>
<key>version_comparison_key</key>



```
<string>application</string>
              <key>version_comparison_key</key>
              <string>CFBundleShortVersionString
         </dict>
    </array>
    <key>items_to_copy</key>
    <array>
         <dict>
              <key>destination_path/key>
              <string>/Applications</string>
              <key>source_item</key>
              <string>Google Chrome.app</string>
         </dict>
    </array>
    <key>minimum_os_version</key>
    <string>10.9.0</string>
    <key>name</key>
    <string>GoogleChrome</string>
    <key>unattended_install</key>
    <true/>
    <key>uninstall_method</key>
    <string>remove_copied_items</string>
    <key>uninstallable/key>
    <true/>
    <key>version</key>
    <string>54.0.2840.87</string>
</dict>
</plist>
```

receipts array:

list of package receipts left by install

```
<key>CrbunateSnor:tver:StonStr:tng</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>path</key>
         <string>/Library/Internet Plug-Ins/Google Earth Web Plug-in.plugin</string>
         <key>type</key>
         <string>bundle</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
     </dict>
</array>
<key>minimum_os_version</key>
<string>10.5.0</string>
<key>name</key>
<string>GoogleEarth</string>
<key>receipts</key>
<array>
     <dict>
         <key>installed_size</key>
         <integer>103147</integer>
         <key>packageid</key>
         <string>com.Google.GoogleEarthPlus</string>
         <key>version</key>
         <string>7.1.0</string>
     </dict>
     <dict>
         <key>installed_size</key>
         <integer>106415</integer>
         <key>packageid</key>
         <string>com.Google.GoogleEarthPlugin.plugin</string>
         <key>version</key>
         <string>7.1.0</string>
     </dict>
</array>
<key>unuccended_thstalt</key>
<true/>
```

```
<key>CrbunateSnor:tver:StonStr:tng</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>path</key>
         <string>/Library/Internet Plug-Ins/Google Earth Web Plug-in.plugin</string>
         <key>type</key>
         <string>bundle</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
</array>
<key>minimum_os_version</key>
<string>10.5.0</string>
<key>name</key>
<string>GoogleEarth</string>
<key>receipts</key>
<array>
    <dict>
         <key>installed_size</key>
          <integer>103147</integer>
         <key>packageid</key>
         <string>com.Google.GoogleEarthPlus</string>
         <key>version</key>
         <string>7.1.0</string>
    </alct>
    <dict>
         <key>installed_size</key>
         <integer>106415</integer>
         <key>packageid</key>
         <string>com.Google.GoogleEarthPlugin.plugin</string>
         <key>version</key>
         <string>7.1.0</string>
    </dict>
</array>
<key>unattended_install
<true/>
```

```
<key>CrbunateSnor:tver:StonStr:tng</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>path</key>
         <string>/Library/Internet Plug-Ins/Google Earth Web Plug-in.plugin</string>
         <key>type</key>
         <string>bundle</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
</array>
<key>minimum_os_version</key>
<string>10.5.0</string>
<key>name</key>
<string>GoogleEarth</string>
<key>receipts</key>
<array>
    <dict>
         <key>installed_size</key>
         <integer>103147</integer>
         <key>packageid</key>
         <string>com.Google.GoogleEarthPlus</string>
         <key>version</key>
         <string>7.1.0</string>
    </dict>
    <dict>
         <key>installed_size</key>
          <integer>106415</integer>
         <key>packageid</key>
         <string>com.Google.GoogleEarthPlugin.plugin</string>
         <key>version</key>
         <string>7.1.0</string>
    </dlct>
</array>
<key>unattended_install
```

<true/>

installs array:

list of filesystem items created upon install

```
<key>installer_item_size</key>
<integer>87003</integer>
<key>installs</key>
<array>
    <dict>
         <key>CFBundleIdentifier</key>
         <string>com.Google.GoogleEarthPlus</string>
         <key>CFBundleName</key>
         <string>Google Earth</string>
         <key>CFBundleShortVersionString</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>minosversion</key>
         <string>10.6.0</string>
         <key>path</key>
         <string>/Applications/Google Earth.app</string>
         <key>type</key>
         <string>application</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
    <dict>
         <key>CFBundleShortVersionString</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>path</key>
         <string>/Library/Internet Plug-Ins/Google Earth Web Plug-in.plugin</string>
         <key>type</key>
         <string>bundle</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
</array>
<key>mtntmum_os_verston</key>
```

zc+ninax10 5 0z/c+ninax

installs type: application

```
<key>installer_item_size</key>
<integer>87003</integer>
<key>installs</key>
<array>
    <dict>
         <key>CFBundleIdentifier</key>
         <string>com.Google.GoogleEarthPlus</string>
         <key>CFBundleName</key>
         <string>Google Earth</string>
         <key>CFBundleShortVersionString</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>minosversion</key>
         <string>10.6.0</string>
         <key>path</key>
         <string>/Applications/Google Earth.app</string>
         <key>type</key>
         <string>application</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
    <dict>
         <key>CFBundleShortVersionString</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>path</key>
         <string>/Library/Internet Plug-Ins/Google Earth Web Plug-in.plugin</string>
         <key>type</key>
         <string>bundle</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
</array>
<key>minimum_os_version</key>
ctning 10 5 Ac/ctnings
```

```
<key>installer_item_size</key>
<integer>87003</integer>
<key>installs</key>
<array>
    <dict>
         <key>CFBundleIdentifier</key>
         <string>com.Google.GoogleEarthPlus</string>
         <key>CFBundleName</key>
         <string>Google Earth</string>
         <key>CFBundleShortVersionString</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>minosversion</key>
         <string>10.6.0</string>
         <key>path</key>
         <string>/Applications/Google Earth.app</string>
         <key>type</key>
         <strina>application</strina>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
    <dict>
         <key>CFBundleShortVersionString</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>path</key>
         <string>/Library/Internet Plug-Ins/Google Earth Web Plug-in.plugin</string>
         <key>type</key>
         <string>bundle</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
</array>
<key>minimum_os_version</key>
ctning 10 5 Ac/ctnings
```

```
<key>installer_item_size</key>
<integer>87003</integer>
<key>installs</key>
<array>
    <dict>
         <key>CFBundleIdentifier</key>
         <string>com.Google.GoogleEarthPlus</string>
         <key>CFBundleName</key>
         <string>Google Earth</string>
         <key>CFBundleShortVersionString</key>
         <strina>7.1</strina>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>minosversion</key>
         <string>10.6.0</string>
         <key>path</key>
         <string>/Applications/Google Earth.app</string>
         <key>type</key>
         <string>application</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
    <dict>
         <key>CFBundleShortVersionString</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>path</key>
         <string>/Library/Internet Plug-Ins/Google Earth Web Plug-in.plugin</string>
         <key>type</key>
         <string>bundle</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
</array>
<key>minimum_os_version</key>
ctning 10 5 Ac/ctnings
```

installs type: bundle

```
<key>installer_item_size</key>
<integer>87003</integer>
<key>installs</key>
<array>
    <dict>
         <key>CFBundleIdentifier</key>
         <string>com.Google.GoogleEarthPlus</string>
         <key>CFBundleName</key>
         <string>Google Earth</string>
         <key>CFBundleShortVersionString</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>minosversion</key>
         <string>10.6.0</string>
         <key>path</key>
         <string>/Applications/Google Earth.app</string>
         <key>type</key>
         <string>application</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
    <dict>
         <key>CFBundleShortVersionString</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>path</key>
         <string>/Library/Internet Plug-Ins/Google Earth Web Plug-in.plugin</string>
         <key>type</key>
         <string>bundle</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
</array>
<key>minimum_os_version</key>
ctning 10 5 Ac/ctnings
```

```
<key>installer_item_size</key>
<integer>87003</integer>
<key>installs</key>
<array>
    <dict>
         <key>CFBundleIdentifier</key>
         <string>com.Google.GoogleEarthPlus</string>
         <key>CFBundleName</key>
         <string>Google Earth</string>
         <key>CFBundleShortVersionString</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>minosversion</key>
         <string>10.6.0</string>
         <key>path</key>
         <string>/Applications/Google Earth.app</string>
         <key>type</key>
         <string>application</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
    <dict>
         <key>CFBundleShortVersionString</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>path</key>
         <string>/Library/Internet Plug-Ins/Google Earth Web Plug-in.plugin</string>
         <key>type</key>
         <strina>bundle</strina>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dlct>
</array>
<key>minimum_os_version</key>
```

ctning 10 5 Ac/ctnings

```
<key>installer_item_size</key>
<integer>87003</integer>
<key>installs</key>
<array>
    <dict>
         <key>CFBundleIdentifier</key>
         <string>com.Google.GoogleEarthPlus</string>
         <key>CFBundleName</key>
         <string>Google Earth</string>
         <key>CFBundleShortVersionString</key>
         <string>7.1</string>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>minosversion</key>
         <string>10.6.0</string>
         <key>path</key>
         <string>/Applications/Google Earth.app</string>
         <key>type</key>
         <string>application</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
    <dict>
         <key>CFBundleShortVersionString</key>
          <strina>7.1</strina>
         <key>CFBundleVersion</key>
         <string>7.1.7.2602</string>
         <key>patn</key>
         <string>/Library/Internet Plug-Ins/Google Earth Web Plug-in.plugin</string>
         <key>type</key>
         <string>bundle</string>
         <key>version_comparison_key</key>
         <string>CFBundleVersion</string>
    </dict>
</array>
<key>minimum_os_version</key>
ctning 10 5 Ac/ctnings
```

installs type: plist

```
<key>installer_item_location</key>
<string>os_updates/InstallOSX_10.12.1_16B2657_custom-10.12.1.dmg</string>
<key>installer_item_size</key>
<integer>4763311</integer>
<key>installs</key>
<array>
    <dict>
        <key>ProductVersion</key>
        <string>10.12</string>
        <key>path</key>
        <string>/System/Library/CoreServices/SystemVersion.plist</string>
        <key>type</key>
        <string>plist</string>
        <key>version_comparison_key</key>
        <string>ProductVersion</string>
    </dict>
</array>
<key>minimum_os_version</key>
<string>10.7.5
<key>name</key>
<string>InstallSierra</string>
```

```
<key>installer_item_location</key>
<string>os_updates/InstallOSX_10.12.1_16B2657_custom-10.12.1.dmg</string>
<key>installer_item_size</key>
<integer>4763311</integer>
<key>installs</key>
<array>
    <dict>
        <key>ProductVersion</key>
        <string>10.12</string>
        <key>path</key>
        <string>/System/Library/CoreServices/SystemVersion.plist</string>
        <key>type</key>
        <strina>nlist</strina>
        <key>version_comparison_key</key>
        <string>ProductVersion</string>
    </dict>
</array>
<key>minimum_os_version</key>
<string>10.7.5
<key>name</key>
<string>InstallSierra</string>
```

```
<key>installer_item_location</key>
<string>os_updates/InstallOSX_10.12.1_16B2657_custom-10.12.1.dmg</string>
<key>installer_item_size</key>
<integer>4763311</integer>
<key>installs</key>
<array>
    <dict>
        <key>ProductVersion</key>
        <string>10.12</string>
        <key>path</key>
        <string>/System/Library/CoreServices/SystemVersion.plist</string>
        <key>type</key>
        <string>plist</string>
        <key>version_comparison_key</key>
        <string>ProductVersion</string>
    </dict>
</array>
<key>minimum_os_version</key>
<string>10.7.5
<key>name</key>
<string>InstallSierra</string>
```

installs type: file

```
<key>installer_item_location</key>
   <string>apps/Adobe/CC2015/updates/AdobeAfterEffects-13.5.0-Trial-13.7.2.dmg</string>
   <key>installer_item_size</key>
   <integer>532908</integer>
   <key>installer_type</key>
   <string>AdobeCS5PatchInstaller</string>
   <key>installs</key>
   <array>
        <dict>
           <key>path</key>
           <string>/Library/Application Support/Adobe/Uninstall/{149CC110-81BD-4AE1-
BE30-0BED863DEA0D}.db</string>
           <key>type</key>
           <string>file</string>
        </array>
   <key>minimum_os_version</key>
   <string>10.4.0
   <key>name</key>
```

<string>AdobeAfterEffects_13.5.0_Trial_Update</string>

```
<key>installer_item_size</key>
<integer>24</integer>
<key>installer_type</key>
<string>copy_from_dmg</string>
<key>installs</key>
<array>
    <dict>
        <key>md5checksum</key>
        <string>de91dfe0f852456dbec88cc8625e3202</string>
        <key>path</key>
        <string>/usr/local/bin/dockutil</string>
        <key>type</key>
        <string>file</string>
    </dict>
</array>
<key>items_to_copy</key>
<array>
    <dict>
        <key>destination_path/key>
        <string>/usr/local/bin</string>
        <key>group</key>
        <string>wheel</string>
        <key>mode</key>
        <string>u=rwx,go=rx</string>
        <key>source_item</key>
        <string>dockutil</string>
        <key>user</key>
        <string>root</string>
    </dict>
```

```
<key>installer_item_size</key>
<integer>24</integer>
<key>installer_type</key>
<string>copy_from_dmg</string>
<key>installs</key>
<array>
    <dict>
        <key>md5checksum</key>
        <string>de91dfe0f852456dbec88cc8625e3202</string>
        <key>path</key>
        <string>/usr/local/bin/dockutil</string>
        <key>type</key>
        <string>file</string>
    </dict>
</array>
<key>items_to_copy</key>
<array>
    <dict>
        <key>destination_path/key>
        <string>/usr/local/bin</string>
        <key>group</key>
        <string>wheel</string>
        <key>mode</key>
        <string>u=rwx,go=rx</string>
        <key>source_item</key>
        <string>dockutil</string>
        <key>user</key>
        <string>root</string>
    </dict>
```

How Munki Decides What Needs to Be Installed

manifest (fragment)

```
<key>catalogs</key>
<array>
  <string>production</string>
</array>
<key>managed_installs</key>
<array>
  <string>Firefox
  <string>FlashPlayer</string>
</array>
```

```
</array>
   <key>items_to_copy</key>
   <array>
                       catalog (fragment)
       <dict>
           <key>destination_path
           <string>/Applications</string>
           <key>source_item</key>
           <string>Google Chrome.app</string>
       </dict>
   </array>
   <key>minimum_os_version</key>
   <strina>10.9.0</strina>
   <key>name</key>
   <string>GoogleChrome</string>
   <key>unattended_install</key>
   <true/>
   <key>uninstall_method</key>
   <string>remove_copied_items</string>
   <key>uninstallable
   <true/>
   <key>version</key>
   <string>54.0.2840.59</string>
</dict>
<dict>
   <key>autoremove</key>
   <false/>
   <key>catalogs</key>
```

```
</array>
   <key>items_to_copy</key>
   <array>
                       catalog (fragment)
       <dict>
           <key>destination_path
           <string>/Applications</string>
           <key>source_item</key>
           <string>Google Chrome.app</string>
       </dict>
   </array>
   <key>minimum_os_version</key>
   <strina>10.9.0</strina>
   <key>name</key>
   <string>GoogleChrome</string>
   <key>unattended_install</key>
   <true/>
   <key>uninstall_method</key>
   <string>remove_copied_items</string>
   <key>uninstallable
   <true/>
   <key>version</key>
   <string>54.0.2840.71</string>
</dict>
<dict>
   <key>autoremove</key>
   <false/>
   <key>catalogs</key>
```

```
</array>
   <key>items_to_copy</key>
   <array>
                       catalog (fragment)
       <dict>
           <key>destination_path
           <string>/Applications</string>
           <key>source_item</key>
           <string>Google Chrome.app</string>
       </dict>
   </array>
   <key>minimum_os_version</key>
   <strina>10.9.0</strina>
   <key>name</key>
   <string>GoogleChrome</string>
   <key>unattended_install</key>
   <true/>
   <key>uninstall_method</key>
   <string>remove_copied_items</string>
   <key>uninstallable
   <true/>
   <key>version</key>
   <string>54.0.2840.87</string>
</dict>
<dict>
   <key>autoremove</key>
   <false/>
   <key>catalogs</key>
```

```
</array>
   <key>items_to_copy</key>
   <array>
                       catalog (fragment)
       <dict>
           <key>destination_path
           <string>/Applications</string>
           <key>source_item</key>
           <string>Google Chrome.app</string>
       </dict>
   </array>
   <key>minimum_os_version</key>
   <string>10.9.0</string>
   <key>name</key>
   <string>GoogleChrome</string>
   <key>unattended_install
   <true/>
   <key>uninstall_method</key>
   <string>remove_copied_items</string>
   <key>uninstallable
   <true/>
   <key>version</key>
   <string>54.0.2840.87</string>
</dict>
<dict>
   <key>autoremove</key>
   <false/>
   <key>catalogs</key>
```

```
<3 ci liig/app3/ doogleciii oiiie-3+.0.20+0.07.aiiig</p>
<key>installer_item_size</key>
<integer>61897</integer>
<key>installer_type/key>alog (fragment)
<string>copy_from_dmg</string>
<key>installs</key>
<array>
   <dict>
       <key>CFBundleIdentifier</key>
       <string>com.google.Chrome</string>
       <key>CFBundleName</key>
       <string>Chrome</string>
       <key>CFBundleShortVersionString</key>
       <string>54.0.2840.87</string>
       <key>CFBundleVersion</key>
       <string>2840.87</string>
       <key>minosversion
       <string>10.9.0</string>
       <key>path</key>
       <string>/Applications/Google Chrome.app</string>
       <key>type</key>
       <string>application</string>
       <key>version_comparison_key</key>
       <string>CFBundleShortVersionString
   </dict>
</array>
<key>1tems_to_copy</key>
<array>
```

```
<3 ci liig/app3/ doogleciii oiiie-3+.0.20+0.07.aiiig</p>
<key>installer_item_size</key>
<integer>61897</integer>
<key>installer_type/key>alog (fragment)
<string>copy_from_dmg</string>
<key>installs</key>
<array>
   <dict>
       <key>CFBundleIdentifier</key>
       <string>com.google.Chrome</string>
       <key>CFBundleName</key>
       <string>Chrome</string>
       <key>CFBundleShortVersionString</key>
       <string>54.0.2840.87</string>
       <key>CFBundleVersion</key>
       <string>2840.87</string>
       <key>minosversion
       <string>10.9.0</string>
       <key>path</key>
       <string>/Applications/Google Chrome.app</string>
       <key>type</key>
       <string>application</string>
       <key>version_comparison_key</key>
       <string>CFBundleShortVersionString
   </dict>
</array>
<key>1tems_to_copy</key>
<array>
```

```
<3 ci liig/app3/ doogleciii oiiie-3+.0.20+0.07.aiiig</p>
<key>installer_item_size</key>
<integer>61897</integer>
<key>installer_type/key>
<string>copy_from_dmg</string> (fragment)
<key>installs
<array>
   <dict>
       <key>CFBundleIdentifier</key>
       <string>com.google.Chrome</string>
       <key>CFBundleName</key>
       <string>Chrome</string>
       <key>CFBundleShortVersionString</key>
       <string>54.0.2840.87</string>
       <key>CFBundleVersion</key>
       <string>2840.87</string>
       <key>minosversion
       <string>10.9.0</string>
       <key>path</key>
       <strina>/Applications/Gooale Chrome.app</strina>
       <key>type</key>
       <string>application</string>
       <key>version_comparison_key</key>
       <string>CFBundleShortVersionString/string>
   </dict>
</array>
<key>items_to_copy</key>
<array>
```

```
<3 ci liig/app3/ doogleciii oiiie-3+.0.20+0.07.aiiig</p>
<key>installer_item_size</key>
<integer>61897</integer>
<key>installer_type/key>
<string>copy_from_dmg</string> (fragment)
<key>installs
<array>
   <dict>
       <key>CFBundleIdentifier</key>
       <string>com.google.Chrome</string>
       <key>Crbunalename</key>
       <string>Chrome</string>
       <key>CFBundleShortVersionString</key>
       <string>54.0.2840.87</string>
       <key>CFBundleVersion</key>
       <string>2840.87</string>
       <key>minosversion
       <string>10.9.0</string>
       <key>path</key>
       <string>/Applications/Google Chrome.app</string>
       <key>type</key>
       <string>application</string>
       <key>version_comparison_key</key>
       <string>CFBundleShortVersionString/string>
   </dict>
</array>
<key>items_to_copy</key>
<array>
```

```
<3 ci liig/app3/ doogleciii oiiie-3+.0.20+0.07.aiiig</p>
<key>installer_item_size</key>
<integer>61897</integer>
<key>installer_type/key>
<string>copy_from_dmg</string> (fragment)
<key>installs
<array>
   <dict>
       <key>CFBundleIdentifier</key>
       <string>com.google.Chrome</string>
       <key>CFBundleName</key>
       <string>Chrome</string>
       <key>CFBundleShortVersionString</key>
       <string>54.0.2840.87</string>
       <key>CFBundleVersion</key>
       <string>2840.87</string>
       <key>minosversion
       <string>10.9.0</string>
       <key>path</key>
       <string>/Applications/Google Chrome.app</string>
       <key>type</key>
       <string>application</string>
       <key>version_comparison_key</key>
       <string>CFBundleShortVersionString
   </dict>
</array>
<key>items_to_copy</key>
<array>
```

```
<3 ci liig/app3/ doogleciii oiiie-3+.0.20+0.07.aiiig</p>
<key>installer_item_size</key>
<integer>61897</integer>
<key>installer_type/key>
<string>copy_from_dmg</string> (fragment)
<key>installs</key>
<array>
    <dict>
         <key>CFBundleIdentifier</key>
         <string>com.google.Chror ___
                                                         Google Chrome Info
         <key>CFBundleName</key>
                                             Google Chrome
                                                                                      191.1 M
         <strina>Chrome</strina>
                                             Modified: Sunday, October 30, 2016 at 5:41 PM
         <key>CFBundleShortVersi
                                        Add Tags...
         <string>54.0.2840.87</s
         <key>CFBundleVersion</k

▼ General:

         <string>2840.87</string:</pre>
         <key>minosversion
                                            Kind: Application
                                             Size: 191,133,616 bytes (191.6 MB on disk)
         <string>10.9.0</string>
                                           Where: Macintosh HD . Applications
         <key>path</key>
                                          Created: Sunday, October 30, 2016 at 5:41 PM
                                               d: Sunday, October 30, 2016 at 5:41 PM
         <string>/Applications/Go
                                          Version: 54.0.2840.87
         <key>type</key>
                                         Copyright. Copyright 2010 Coogle Inc. All rights reserved.
                                                 Open in Low Resolution
         <string>application</st
                                              Locked
         <key>version_comparison_
         <string>CFBundleShortVel

▼ More Info:

    </dict>
                                        Last opened: Thursday, November 3, 2016 at 2:29 PM
</array>
                                         Name & Extension:
<key>items_to_copy</key>
                                         Google Chrome.app
<array>
```

manifest (fragment)

```
<key>catalogs</key>
<array>
  <string>production</string>
</array>
<key>managed_installs</key>
<array>
  <string>Firefox</string>
  <string>FlashPlayer
</array>
```

catalog (fragment)

```
<key>installer_item_location</key>
<string>internet/FlashPlayer-23.0.0.207.dmg</string>
<key>installer_item_size</key>
<integer>18433</integer>
<key>minimum_os_version</key>
<string>10.5.0</string>
<key>name</key>
<string>FlashPlayer</string>
<key>package_path</key>
<string>Install Adobe Flash Player.app/Contents/Resources/Adobe Flash Player
<key>receipts</key>
<array>
   <dict>
       <key>installed_size</key>
       <integer>19827</integer>
       <key>packageid</key>
       <string>com.adobe.pkg.FlashPlayer</string>
       <key>version</key>
       <string>23.0.0.207</string>
   </dict>
</array>
<key>unattended_install</key>
<true/>
```

```
bash-3.2$ pkgutil --pkqs
com.apple.pkg.BaseSystemResources
com.apple.pkg.ChineseWordlistUpdate.14U1204
com.apple.pkg.ChineseWordlistUpdate.14U1215
com.apple.pkg.ChineseWordlistUpdate.14U1240
com.apple.pkg.ChineseWordlistUpdate.14U1262
com.apple.pkg.ChineseWordlistUpdate.14U1284
com.apple.pkg.ChineseWordlistUpdate.14U1288
com.apple.pkg.CoreADI
com.apple.pkg.CoreFP
com.apple.pkg.CoreLSKDConfigData.8
com.apple.pkg.CoreSuggestionsConfigData.14U2063
com.apple.pkg.CoreSuggestionsConfigData.14U2099
com.apple.pkg.CoreSuggestionsConfigData.14U2118
com.apple.pkg.CoreSuggestionsConfigData.14U2123
com.apple.pkg.CoreSuggestionsConfigData.14U2128
com.apple.pkg.CoreSuggestionsConfigData.14U2136
com.apple.pkg.CoreSuggestionsConfigData.14U2143
com.apple.pkg.CoreSuggestionsConfigData.14U2159
com.apple.pkg.CoreSuggestionsConfigData.14U2176
com.apple.pkg.CoreSuggestionsConfigData.14U2199
```

bash-3.2\$ pkgutil --pkgs | grep -i flash com.adobe.pkg.FlashPlayer com.googlecode.munki.disableflash10autoupdate bash-3.2\$

catalog (fragment)

```
<key>installer_item_location</key>
<string>internet/FlashPlayer-23.0.0.207.dmg</string>
 bash-3.2$ pkgutil --info com.adobe.pkg.FlashPlayer
 package-id: com.adobe.pkg.FlashPlayer
 version: 23.0.0.207
 volume: /
 location:
 install-time: 1478626259
   <dict>
      <key>installed_size</key>
      <integer>19827</integer>
      <key>packageid</key>
      <string>com.adobe.pkg.FlashPlayer</string>
      <key>version</key>
      <string>23.0.0.207</string>
   </dict>
</array>
```

<key>unattended_install

<true/>

Demo

Dependencies

update_for

```
<key>name</key>
<string>MSWord2016</string>
<key>receipts</key>
<array>
   <dict>
       <key>installed_size</key>
       <integer>1765642</integer>
       <key>packageid</key>
       <string>com.microsoft.package.Microsoft_Word.app</string>
       <key>version</key>
       <string>15.27.16101000</string>
   </dict>
</array>
<key>unattended_install
<true/>
<key>unattended_uninstall
<false/>
<key>uninstall_method</key>
<string>removepackages</string>
<key>uninstallable/key>
<true/>
<key>update_for</key>
<array>
   <string>Office2016</string>
</array>
<key>version</key>
<string>15.27.16101000</string>
```

```
<key>name</key>
<string>MSWord2016</string>
<key>receipts</key>
<array>
   <dict>
       <key>installed_size</key>
       <integer>1765642</integer>
       <key>packageid</key>
       <string>com.microsoft.package.Microsoft_Word.app</string>
       <key>version</key>
       <string>15.27.16101000</string>
   </dict>
</array>
<key>unattended_install
<true/>
<key>unattended_uninstall
<false/>
<key>uninstall_method</key>
<string>removepackages</string>
<key>uninstallable/key>
<true/>
<key>update_for</key>
<array>
   <string>Office2016</string>
</arrav>
<key>version</key>
<string>15.27.16101000</string>
```

```
<key>name</key>
<string>MSWord2016</string>
<key>receipts</key>
<array>
   <dict>
       <key>installed_size</key>
       <integer>1765642</integer>
       <key>packageid</key>
       <string>com.microsoft.package.Microsoft_Word.app</string>
       <key>version</key>
       <string>15.27.16101000</string>
   </dict>
</array>
<key>unattended_install
<true/>
<key>unattended_uninstall
<false/>
<key>uninstall_method</key>
<string>removepackages</string>
<key>uninstallable
<true/>
<key>update_for</key>
<array>
   <string>Office2016</string>
</array>
<key>version</key>
<string>15.27.16101000</string>
```

```
<key>managed_installs</key>
<array>
     <string>FlashPlayer</string>
     <string>GoogleChrome</string>
     <string>Office2016/string>
</array>
<key>managed_uninstalls</key>
<array>
</array>
<key>managed_updates</key>
<array>
</array>
```

```
<key>name</key>
<string>AdobeCCLicensing</string>
<key>receipts</key>
<array>
     <dict>
         <key>installed_size</key>
         <integer>3395</integer>
         <key>packageid</key>
         <string>com.pretendco.pkg.AdobeCCLicensing</string>
         <key>version</key>
         <string>2016.11.01</string>
     </dict>
</array>
<key>unattended_install</key>
<true/>
<key>unattended_uninstall</key>
<true/>
<key>uninstall_method</key>
<string>removepackages</string>
<key>uninstallable/key>
<true/>
<key>update_for</key>
<array>
     <string>AdobeAcrobatProDC</string>
     <string>AdobeAfterEffectsCC2015</string>
     <string>AdobeAfterEffectsCC2015.3</string>
     <string>AdobeBridgeCC2015</string>
     <string>AdobeIllustratorCC2015</string>
     <string>AdobeIllustratorCC2015.3</string>
     <string>AdobeInDesignCC2015</string>
     <string>AdobeLightroomCC2015.7</string>
     <string>AdobeMediaEncoderCC2015</string>
     <string>AdobeMediaEncoderCC2015.3</string>
     <string>AdobePhotoshopCC2015</string>
     <string>AdobePhotoshopCC2015.5</string>
     <string>AdobePremiereCC2015</string>
```

```
<arrray>
    <dict>
         <key>installed_size</key>
         <integer>3395</integer>
         <key>packageid</key>
         <string>com.pretendco.pkg.AdobeCCLicensing</string>
         <key>version</key>
         <string>2016.11.01</string>
    </dict>
</array>
<key>unattended_install</key>
<true/>
<key>unattended_uninstall</key>
<true/>
<key>uninstall_method</key>
<string>removepackages</string>
<key>uninstallable</key>
<true/>
<key>update_for</key>
<array>
    <string>AdobeAcrobatProDC</string>
    <string>AdobeAfterEffectsCC2015</string>
     <string>AdobeAfterEffectsCC2015.3</string>
     <string>AdobeBridgeCC2015</string>
     <string>AdobeIllustratorCC2015</string>
     <string>AdobeIllustratorCC2015.3
     <string>AdobeInDesignCC2015</string>
     <string>AdobeLightroomCC2015.7</string>
     <string>AdobeMediaEncoderCC2015</string>
    <string>AdobeMediaEncoderCC2015.3
    <string>AdobePhotoshopCC2015</string>
    <string>AdobePhotoshopCC2015.5</string>
    <string>AdobePremiereCC2015</string>
    <string>AdobePremiereCC2015.3</string>
</array>
<key>ver5ton</key>
<string>2016.11.01</string>
```

requires

```
<key>name</key>
<string>Minecraft</string>
<key>receipts</key>
<array>
   <dict>
       <key>installed_size</key>
       <integer>11400</integer>
       <key>packageid</key>
       <string>org.sacredsf.pkg.minecraft</string>
       <key>version</key>
       <string>1.0.1</string>
   </dict>
</array>
<key>requires</key>
<array>
   <string>Java6_Apple</string>
</array>
```

```
<key>name</key>
<string>Minecraft</string>
<key>receipts</key>
<array>
   <dict>
       <key>installed_size</key>
       <integer>11400</integer>
       <key>packageid</key>
       <string>org.sacredsf.pkg.minecraft</string>
       <key>version</key>
       <string>1.0.1</string>
   </dict>
</arrav>
<key>requires</key>
<array>
   <string>Java6_Apple</string>
</array>
```

```
<key>managed_installs</key>
<array>
     <string>FlashPlayer</string>
     <string>GoogleChrome</string>
     <string>Office2016</string>
     <string>Minecraft//string>
</array>
<key>managed_uninstalls</key>
<array>
</array>
<key>managed_updates</key>
<array>
</array>
```