

## Contents

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## 1 NAME

OpenSLX::OSPlugin::Engine - driver class for plugin handling.

## 2 DESCRIPTION

This class works as a driver for the installation/removal of plugins into/from a vendor.

Additionally, it provides the OS-Plugin support interface.

## 3 PUBLIC METHODS

### **new()**

Trivial constructor

### **initialize(\$pluginName, \$vendorOSName )**

Sets up basic data (*\$pluginName* and *\$vendorOSName*) as well as paths and loads plugin.

### **Driver Interface**

The following methods are invoked by the `slxos-plugin` script in order to install/remove a plugin into/from a vendor-OS:

#### **installPlugin()**

Invokes the plugin's installer method while chrooted into that vendor-OS.

#### **removePlugin()**

Invokes the plugin's removal method while chrooted into that vendor-OS.

#### **getInstalledPlugins()**

Returns the list of names of the plugins that are installed into the current vendor-OS.

### **Support Interface**

This is the plugin support interface for OS-plugins, which represents the connection between a plugin's implementation and the rest of the OpenSLX system.

Plugin implementations are meant to use this interface in order to find out details about the current vendor-OS or download files or install packages.

#### **vendorOSName()**

Returns the name of the current vendor-OS.

**distroName()**

Returns the name of the distro that the current vendor-OS is based on.

Each distro name always consists of the distro type, a dash and the distro version, like 'suse-10.2' or 'ubuntu-7.04'.

**downloadFile(\$fileURL, \$targetPath, \$wgetOptions)**

Invokes busybox's wget to download a file from the given URL.

***\$fileURL***

The URL of the file to download.

***\$targetPath* [optional]**

The directory where the file should be downloaded into. The default is the current plugin's temp directory.

***\$wgetOptions* [optional]**

Any other options you'd like to pass to wget.

***Return Value***

If the download was successful this method returns 1, otherwise it dies.

**getInstalledPackages()**

Returns the list of names of the packages (as an array) that are already installed in the vendor-OS. Useful if a plugin wants to find out whether or not it has to install additional packages.

**getInstallablePackagesForSelection()**

Looks at the selection with the given name and returns the list of names of the packages (as one string separated by spaces) that need to be installed in order to complete the selection.

**installPackages(\$packages)**

Installs the given packages into the vendor-OS.

N.B: Since this method uses the meta-packager of the vendor-OS, package dependencies will be determined and solved automatically.

***\$packages***

Contains a list of package names (separated by spaces) that shall be installed.

***Return Value***

If the packages have been installed successfully this method return 1, otherwise it dies.

**removePackages(\$packages)**

Removes the given packages from the vendor-OS.

***\$packages*** [ARRAY-ref]

Contains a list of package names (separated by spaces) that shall be removed.

***Return Value***

If the packages have been removed successfully this method return 1, otherwise it dies.

## Driver Interface

The following methods are invoked by the slxos-plugin script in order to install/remove a plugin into/from a vendor-OS:

**checkStage3AttrValues()**

Checks if the stage3 values given in **\$stage3Attrs** are allowed and make sense.

This method gets also invoked whenever changes by slxconfig were made (passing in only the stage3 attributes the user tried to change) and by the config demuxer (passing in all stage3 attributes for the system currently being demuxed).

If all values are ok, this method returns 1 - if not, it extends the given problems array-ref with the problems that were found (and returns undef).

This method chroots into the vendor-OS and then asks the plugin itself to check the attributes.