

## Scope

This document directly relates to Application Note (3023): OpenLM v2.0: OpenLM Agent Silent Installation. It is provided as a service for System administrators who wish to deploy the OpenLM Agent via Group Policy Object (GPO).

## Watch Video

[Customize your OpenLM deployment via GPO](#)

## Overview

### 1. Creating a Transform file with Orca

Orca is a tool that allows you to edit an MSI file's properties. With Orca, you can easily add customized text, add/remove installation screens, add/change/remove public properties, or even change certain conditions contained with the original MSI file.

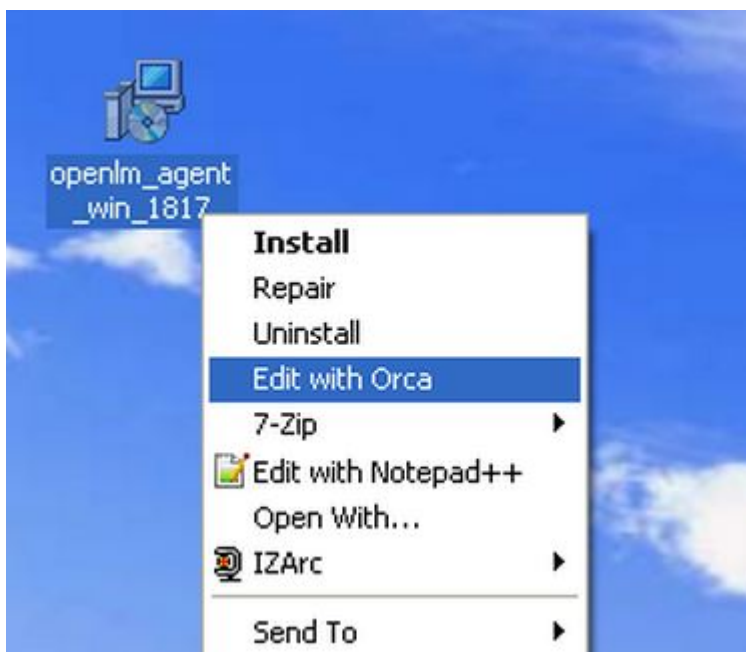
You can download a copy of Orca from:

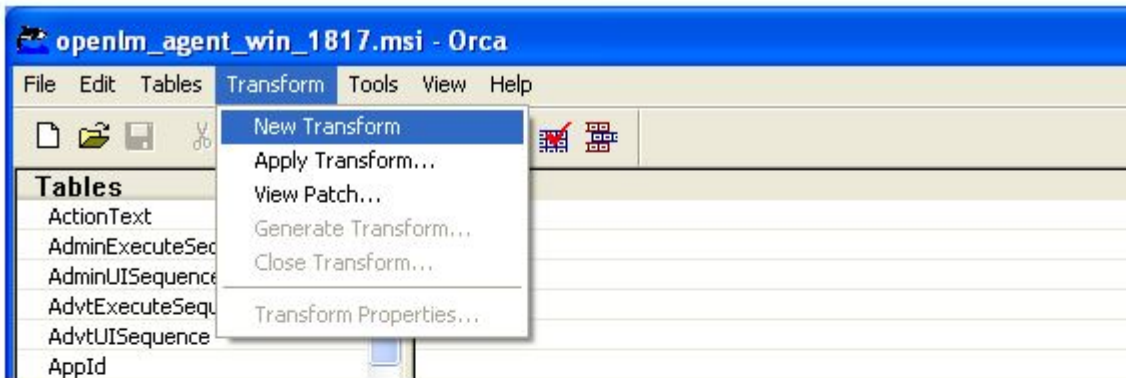
<http://www.technipages.com/download-orca-msi-editor.html>

In order to create your custom Windows installer setup transform file (.mst) containing your custom OpenLM parameters, using Orca, following steps must be performed:

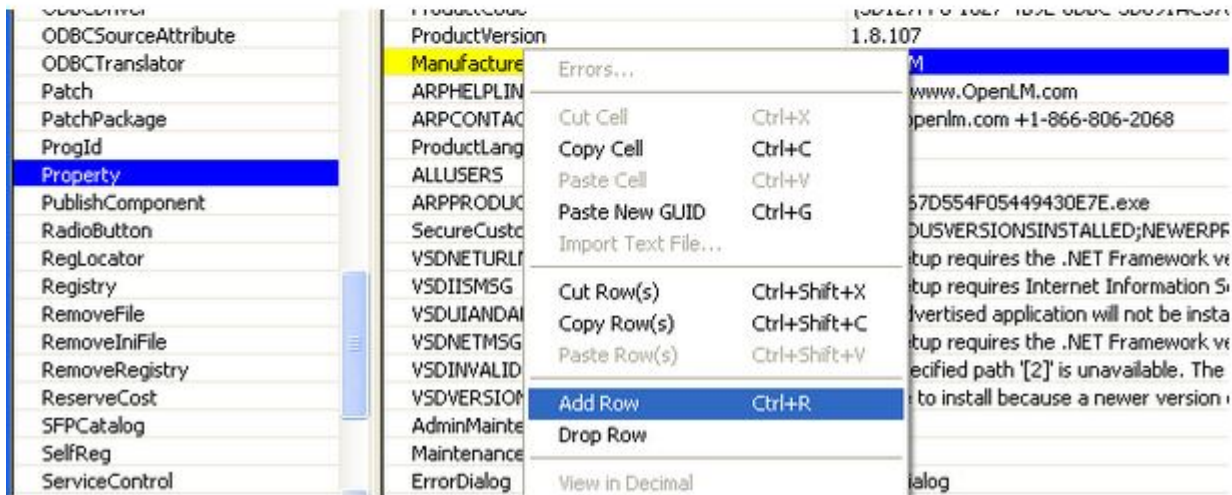
- Open Orca
- Open OpenLM MSI package. File → Open → Browse to the MSI → Click Open
- Start a new Transform. Click **Transform** along the header menu, and select **New Transform**
- Make the necessary changes. Navigate to Property table to add Public Properties containing your custom values. To add a new **Property**, click the **Tables** menu, and select **New Row** or right-click mouse on right pane and select **Add Row**

- Generate the transform file. Click **Transform**, and select **Generate Transform**
- Save the Transform file. Enter in a name for the Transform file, and click **Save**
- Open the MSI package

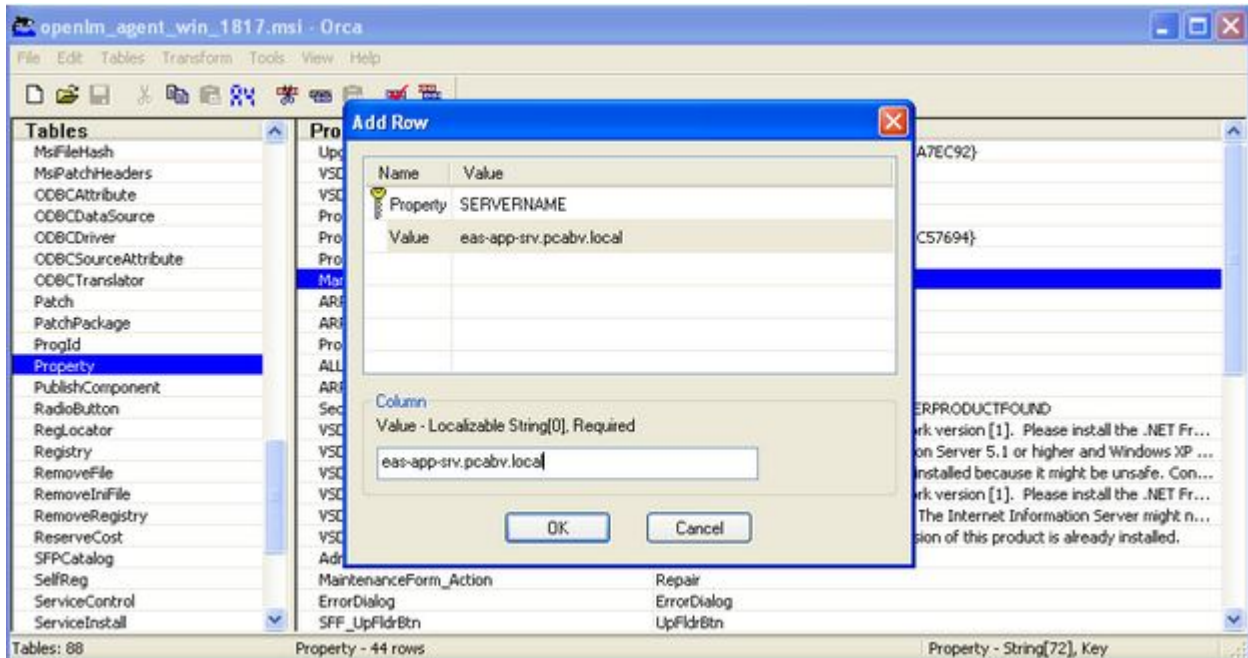




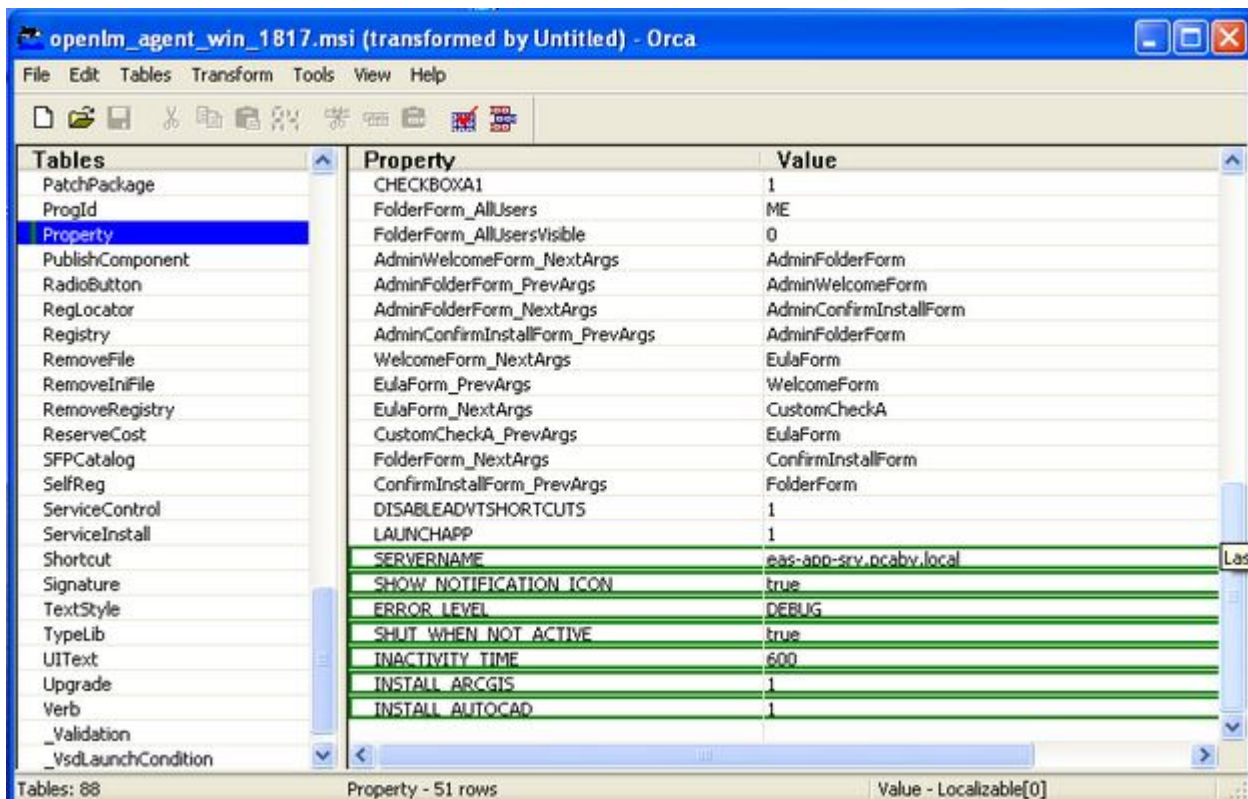
- Create a new transform



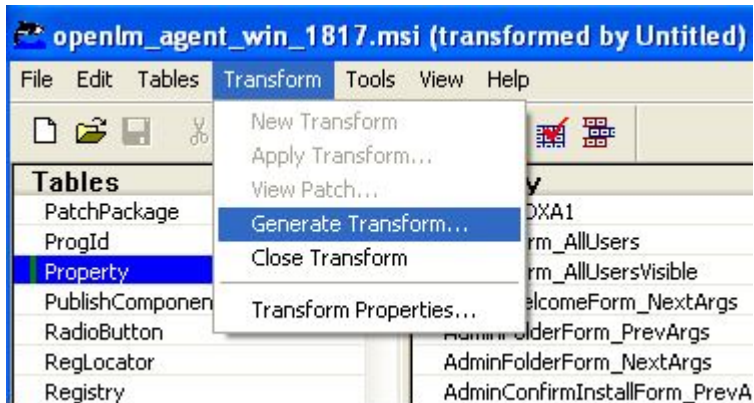
- Add a new property



- Edit property



- Some OpenLM custom properties



- Save the transform

You should now have a Transform file (.mst) that contains the modifications to the original MSI. Keep in mind that the original MSI has NOT been modified. You will have to apply the transform to the original MSI to have the changes take place.

From Version 1.6.0 onwards, following public properties are available to personalize your OpenLM installation:

**SERVERNAME:** OpenLM server name.

**SERVERPORT:** OpenLM server port number - default: 7012

**SHOW\_NOTIFICATION\_ICON** (true/false): Show /Hides OpenLM Agent notification icon in the taskbar - default: true

**ERROR\_LEVEL** (ALL/DEBUG/INFO/WARN/ERROR/FATAL/OFF): OpenLM error level options - default: ERROR

**TARGETDIR:** specify the root destination directory for the installation. - default: ("%ProgramFiles%\OpenLM\OpenLM Agent")

**SHUT\_WHEN\_NOT\_ACTIVE** (true/false): Shutdown the Active Agent automatically when an application is monitored as inactive for a certain period of time (by INACTIVITY\_TIME) -

default: false

**INACTIVITY\_TIME**(seconds): Inactivity time in seconds. Meaningful only when SHUT\_WHEN\_NOT\_ACTIVE = true

**LANG**: Choose the OpenLM language and direction. Possible values: "en-US"(English) "ru-RU"(Russian) "es-ES"(Spanish) "de-DE"(German) "fr-FR"(French) "zh-CHS"(Chinese) "pt-BR"(Portuguese) - default: "en-US"

**INSTALLING EXTENSIONS** (Relevant for the OpenLM Active Agent properties):

OpenLM is capable of retrieving licenses from idle applications by either one of two methods: "Suspend and Resume" or "Save and Close". OpenLM Extensions are software modules that enable OpenLM to provide dedicated services to specific software applications. They facilitate idle license retrieval through the "Save and Close" method. Please consult the [OpenLM support page](#) for information on supported applications.

For more information about the license retrieval in these methods please refer to this [Application Note \(3005\)](#).

INSTALL\_ARCGIS(1/0): Install/Do NOT install the ArcGIS extension.

INSTALL\_AUTOCAD(1/0): Install/Do NOT install the AutoCAD extension.

INSTALL\_MATLAB(1/0): Install/ Do NOT install the Matlab extension.

INSTALL\_SOLIDWORKS(1/0): Install/ Do NOT install the Solidworks extension.

INSTALL\_PLUGIN(1/0): This install/ Do NOT install plugin that enables selecting the ArcGIS license level to ArcInfo/ ArcEditor/ ArcView. This plugin is relevant only for ArcGIS users.

To test the transform, in cmd window, type:

```
msiexec /i <your_msi_file_here.msi> TRANSFORMS=<your_mst_file_here.mst>
```

## 2. Methods of deployment

Group Policy supports two methods of deploying a MSI package:

**Assign software** - A program can be assigned per-user or per-machine. If its assigned per-

user, it will be installed when the user logs on. However, if its assigned per-machine then the program will be installed for all users when the machine starts.

**Publish software** - A program can be published for one or more users. This program will be added to the Add or Remove Programs list and the user will be able to install it from there.

### 3. Create a distribution point

The first step in deploying a MSI through GPO is to create a distribution point on the publishing server. This can be done by following these steps:

- Log on to the server as an Administrator user
- Create a shared network folder (this folder will contain the MSI package)
- Set permissions on this folder in order to allow access to the distribution package
- Copy the MSI in the shared folder

### 4. Create a Group Policy Object

A MSI package is deployed (distributed) through GPO as a Group Policy Object. In order to create an object for a package, follow these steps:

- Click **Start**, go to **Programs**, select **Administrative Tools** and then select **Active Directory Users and Computers**
- Right-click your domain name in the console tree and select Properties context menu
- Select the **Group Policy** tab and click **New**
- Set the name of the policy (for example MyApplication)

- click Properties and select the Security tab
- Check the **Apply Group Policy** checkbox only for the groups to which the policy will be applied
- Click **OK**

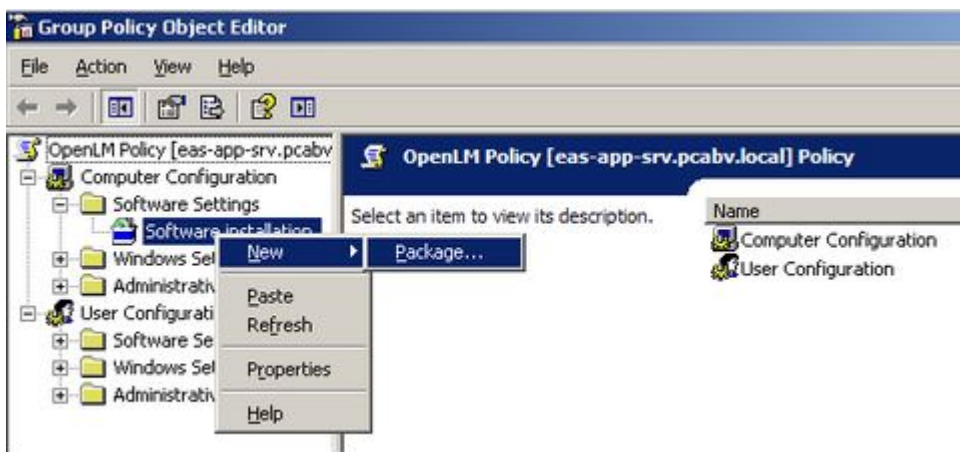
## 5. Assign a MSI package

A package can be assigned per-user or per-machine. Also, if the package is assigned, it will automatically be installed silently. In order to assign a package you can follow these steps:

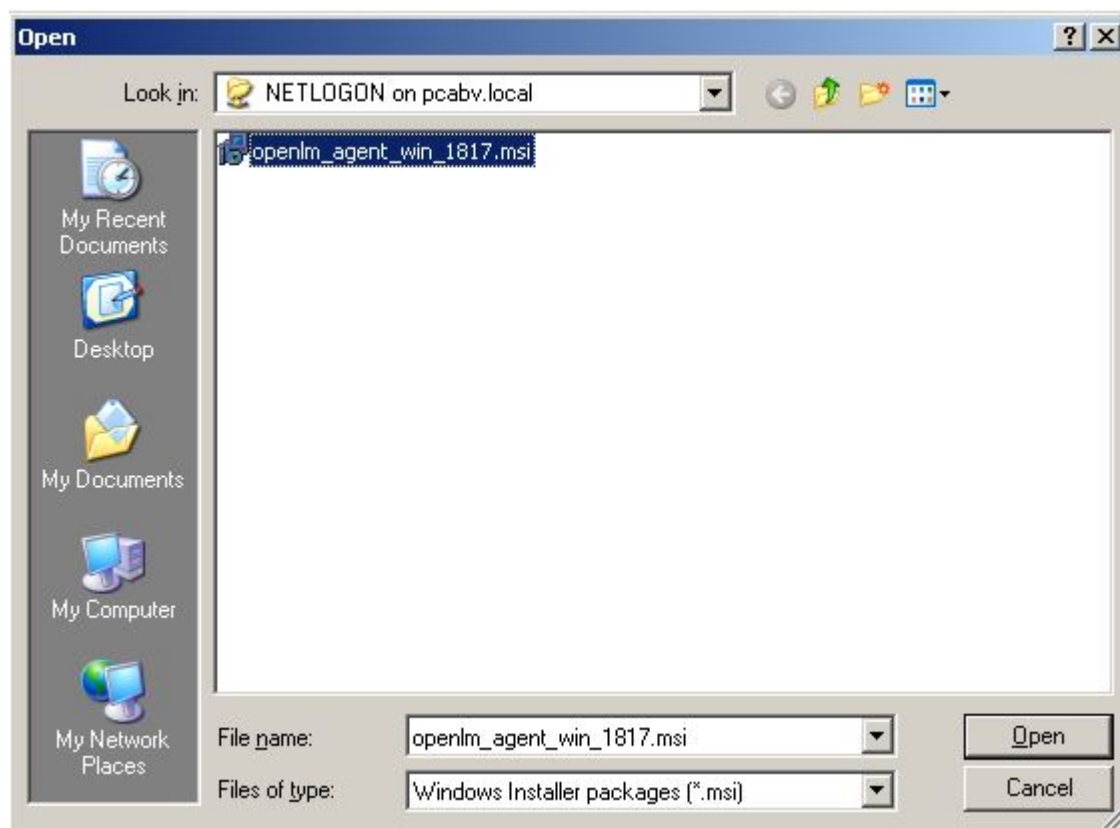
- Click the **Start** button, go to **Programs**, select **Administrative Tools** and then select **Active Directory Users and Computers**
- Right-click your domain name in the console tree and select the **Properties context** menu
- Select the **Group Policy** tab, select the object you want and click **Edit**
- Expand Software Settings under Computer Configuration
- Right-click **Software Installation**, select the **New context** menu and then click, **Package**
- In the dialog box, type the full UNC path of the shared package you want to assign
- Click **Open**
- Click Assigned and then click OK (the package will be added to the right pane of the Group Policy window)



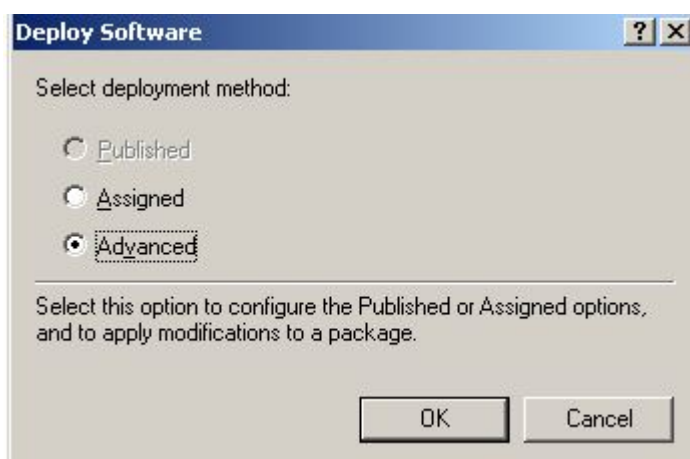
- Close the Group Policy snap-in, click **OK** and exit the Active Directory Users and Computers snap-in
- When the client computers start, the assigned package will be installed automatically
- Add a new package to Software



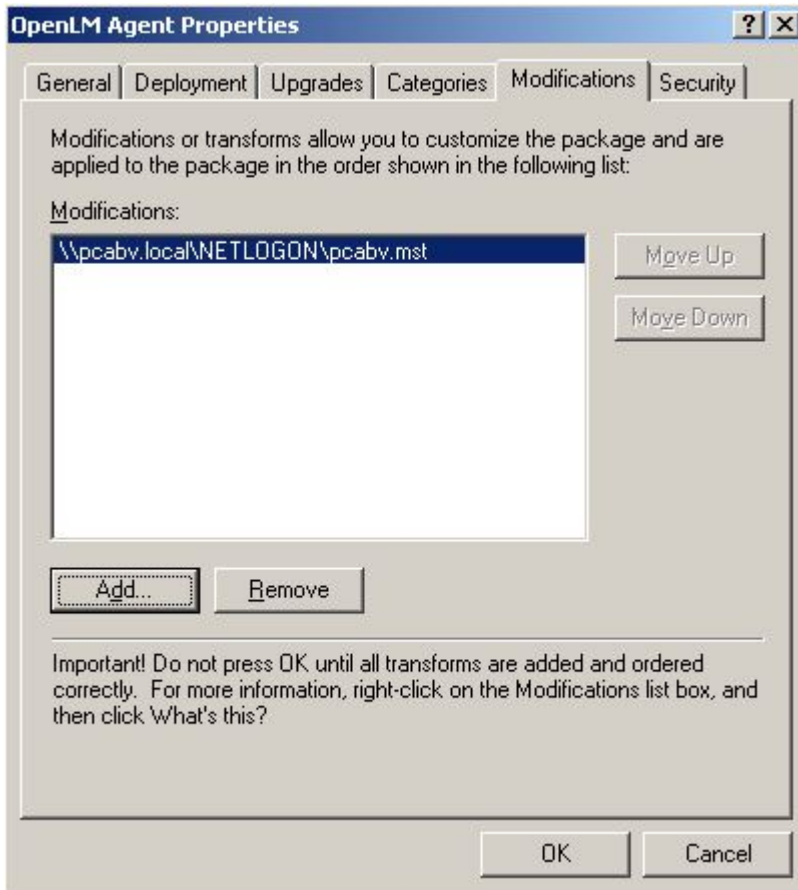
- Installation object
- Choose the MSI package from the distribution point



- Choose advanced deployment method



- On the **Modifications** tab add the personalized transform file



## 6. Redeploy a MSI package

Sometimes a redeployment of a package (for example when doing an upgrade) is required. To re-deploy a package, follow these steps:

- Click **Start**, go to **Programs**, select **Administrative Tools** and then select **Active Directory Users and Computers**
- Right-click the domain name in the console tree and select the **Properties context** menu
- Go to the **Group Policy** tab, select the object used to deploy the package and click **Edit**

- Expand the Software Settings element (per-user or per-machine) which contains the deployed package
- Expand the Software Installation element which contains the deployed package
- Right-click the package in the right pane of the **Group Policy** window
- Select the **All Tasks** menu and click Redeploy application
- Click **Yes** to reinstall the application wherever it is installed
- Close the Group Policy snap-in, click **OK** and exit the Active Directory Users and Computers snap-in

## 7. Remove a MSI package

Group Policy also allows you to remove packages which have been deployed in the past. Here are the steps for removing a package:

- Click **Start**, go to **Programs**, select **Administrative Tools** and select **Active Directory Users and Computers**
- Right-click the domain name in the console tree and select the Properties context menu
- Go to the **Group Policy** tab, select the object used to deploy the package and click **Edit**
- Expand the Software Settings element (per-user or per-machine) which contains the deployed package

- Expand the Software Installation element which contains the deployed package
- Right-click the package in the right pane of the **Group Policy** window
- Select the **All Tasks** menu and click **Remove**
- Select from the following options:
  - Immediately uninstall the software from users and computers
  - Allow users to continue to use the software but prevent new installations
- Click **OK**
- Close the Group Policy snap-in, click **OK** and exit the Active Directory Users and Computers snap-in.

\* This information is given as a service.