Creating a CA Nimsoft Monitor Super-Package

March 2014

agility
made possible™

ca technologies

Background: Distributing probes

- Probe distribution moves the probe from the archive to robot.
  - Creates the probe directory (in file structure and in Manager)
  - Creates a .cfg file from a .cfx file
  - Does any dependency checking
  - Does any requested pre/post processing

- You can save a configured probe into the archive as a simple way to replicate a probe configuration, e.g.,
  - Configure ntperf
  - Drag ntperf back into the archive with a new name
  - Distribute your ntperf modified probe

The Package Editor

Section Notes

Copyright © 2012 CA. All rights reserved.
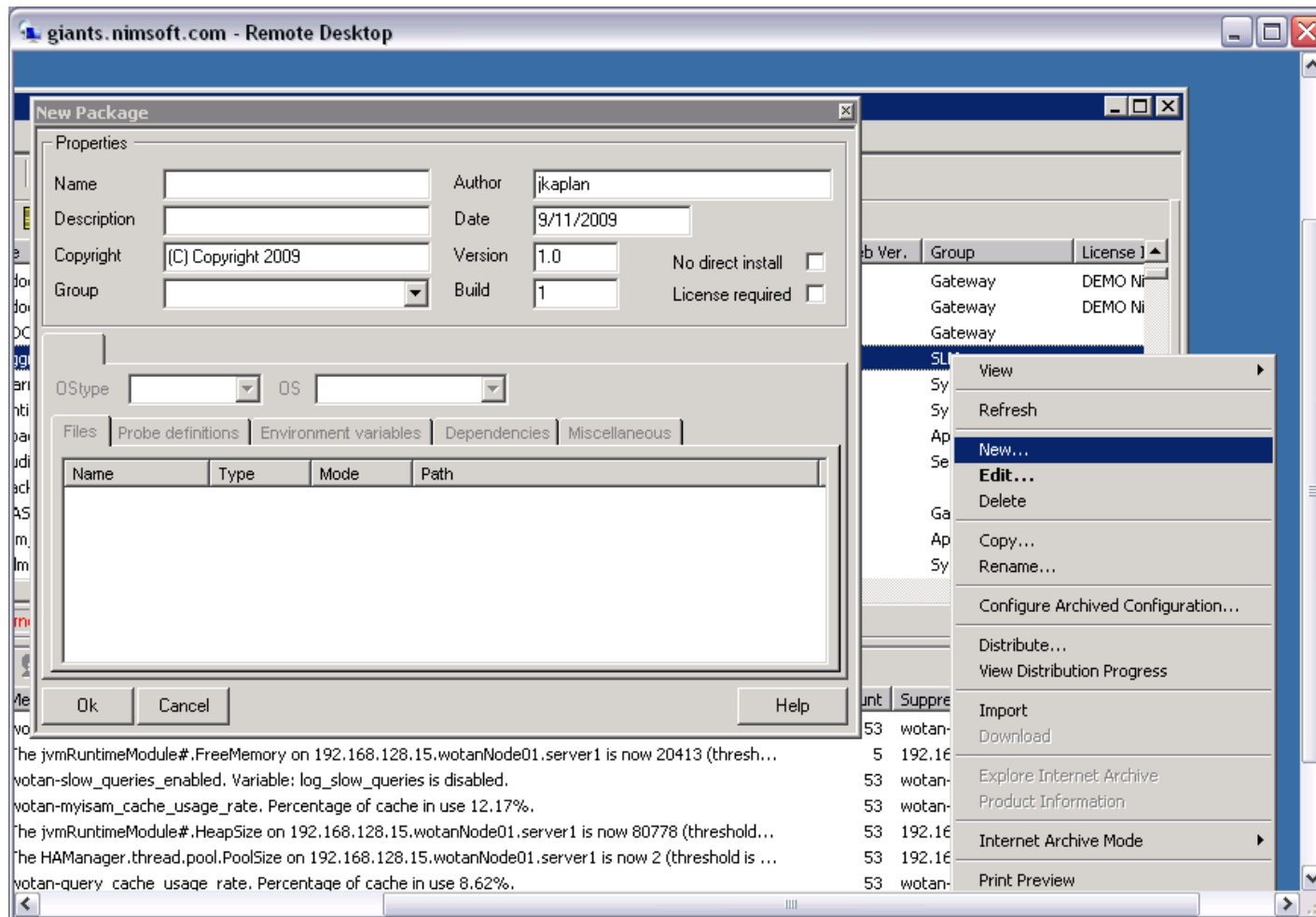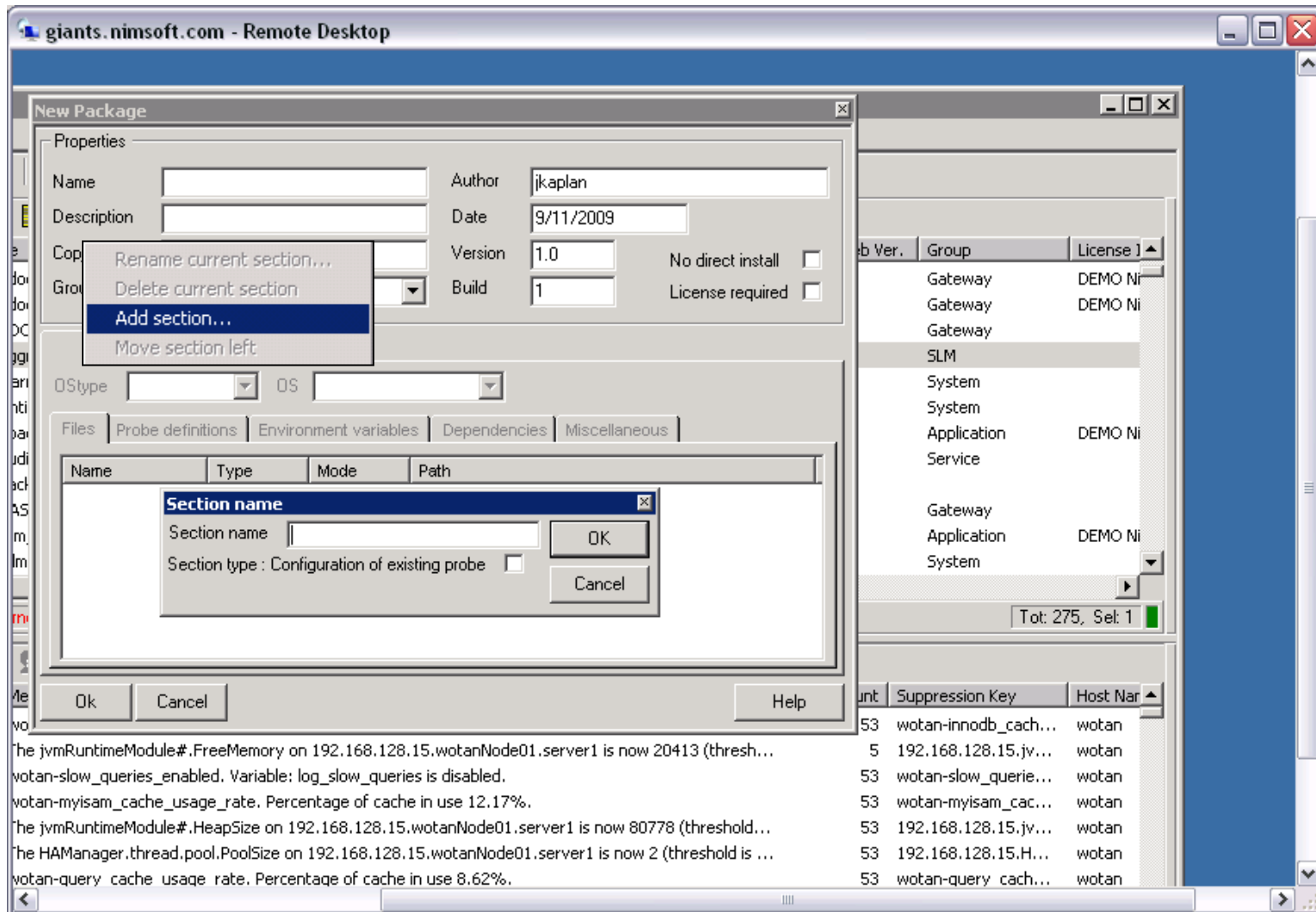
Creating a "Superpackage" - example

- This is convenient if you want to distribute *multiple* probe configurations to a number of hosts as <u>one</u> package and in <u>one</u> operation. These hosts will then receive the same probes with identical configuration parameters creating baselined configurations for process control.

- Note:
  When including the cdm probe in a package, you <u>must</u> ensure that the target computers have the same disk partitions as defined in the cdm configuration file (*cdm.cfx*) distributed with the package unless you instrument with discovery commands (more to come later).

Starting at the Archive

In this 'follow-along' example, we will make a distribution called Superpackage containing configuration for the *cdm* and the *processes* probes.
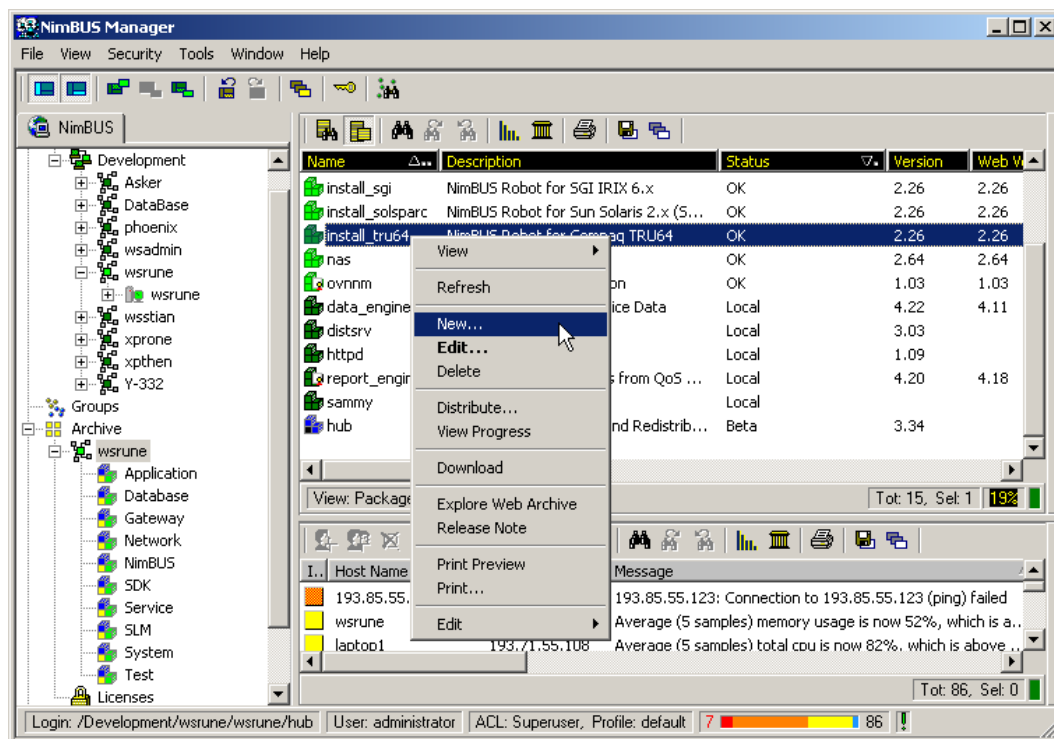
Open your local package archive, right-click in the list and select *New* to launch the NMS Package Editor.

Create the package

Create the distribution package and give the package a name (e.g. *Superpackage*). You may also create a new group (e.g. Super) for the package if you choose

Click the OK button, and the new package will appear in the list in the your package archive.

Let's begin with the *cdm* probe...

Drag and drop a **configured** cdm probe from your robot into the package archive.
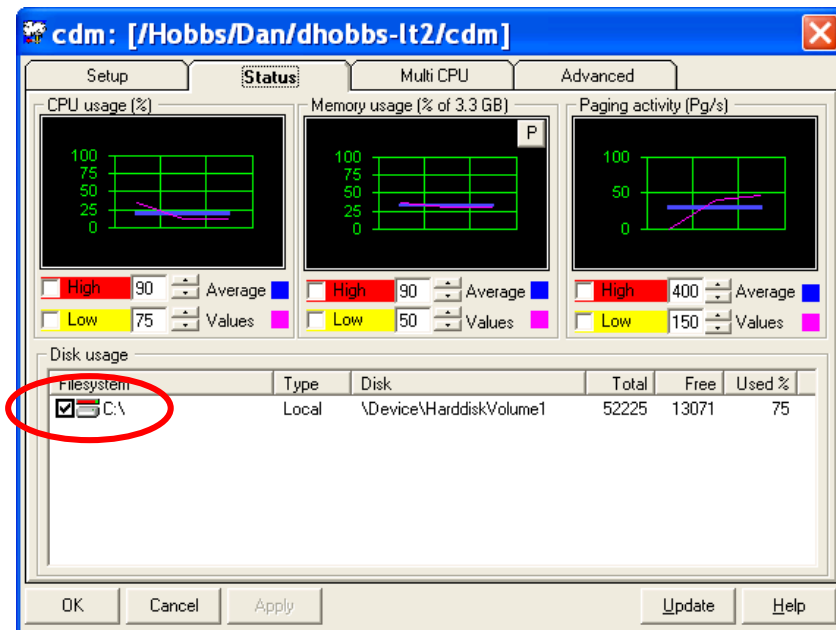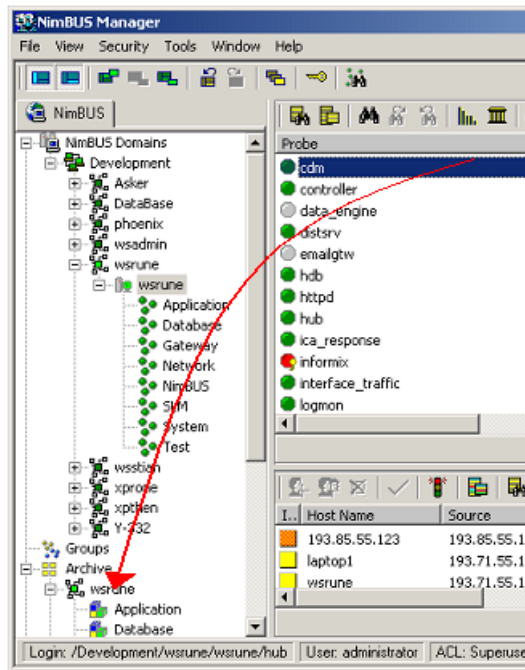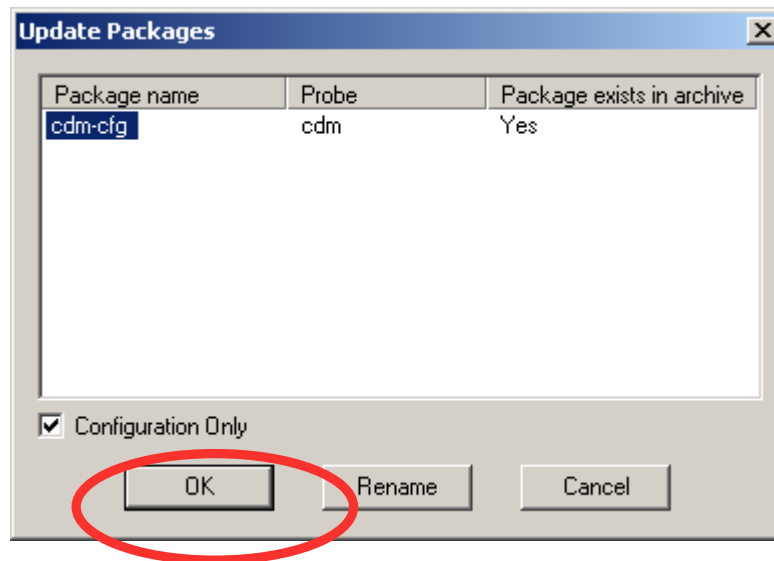
Rename the package

Ensure that **Configuration Only** is selected, and rename the package to something like '*cdm-cfg*'. Click the OK button, and the *cdm-cfg* package will appear in the list in your package archive.

Save the *.cfx* file

Locate and select the cdm-cfg package from within the package archive, right-click and select *edit* (or double click)

Under the Files section, right-click the entry for cdm.cfx, select *Save file as…*, & save the file to a destination of your own choice (just remember where you stick it, you will need the file later in the example).

The *processes* probe

And now onto the processes probe:
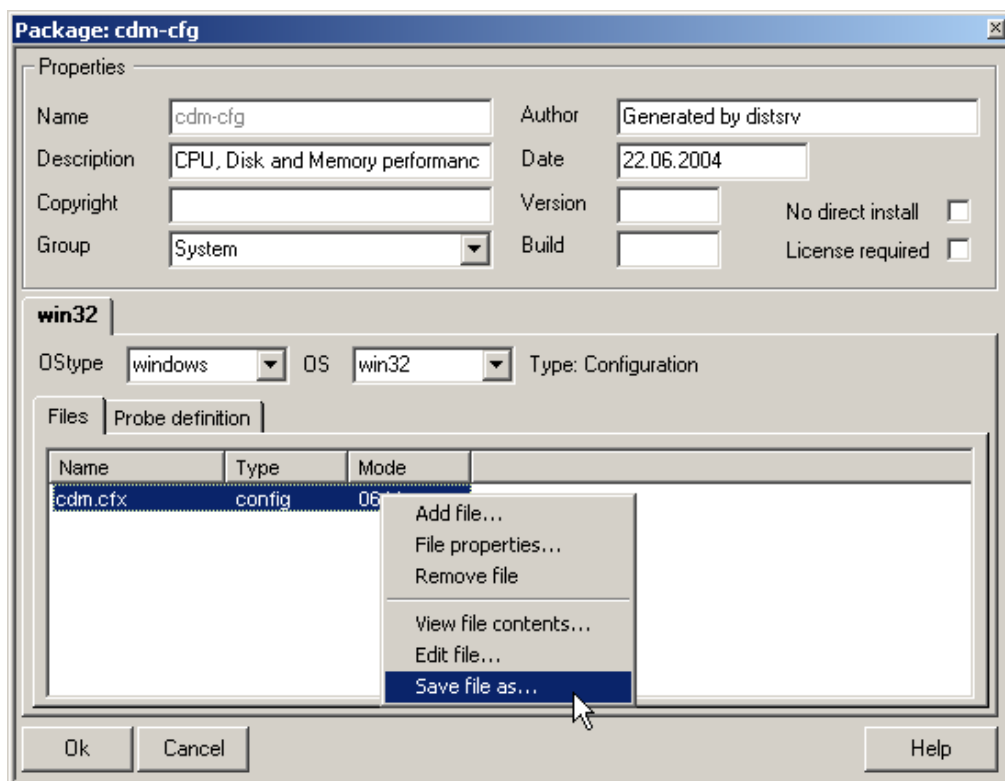- Drag and drop a **configured** processes probe from your Robot into the package archive. Ensure that *Configuration Only* is selected, and rename the package to something like '*processes-cfg*'.

- Click the OK button, and the *processes-cfg* package will appear in the list in the package archive. Locate and select the *processes-cfg* package in the package archive, right-click and select *edit* (or double click).

- Right-click the file processes.cfx in the list, select *Save file as…,* and save the file to a destination of your own choice (maybe put it in the same place as before?).

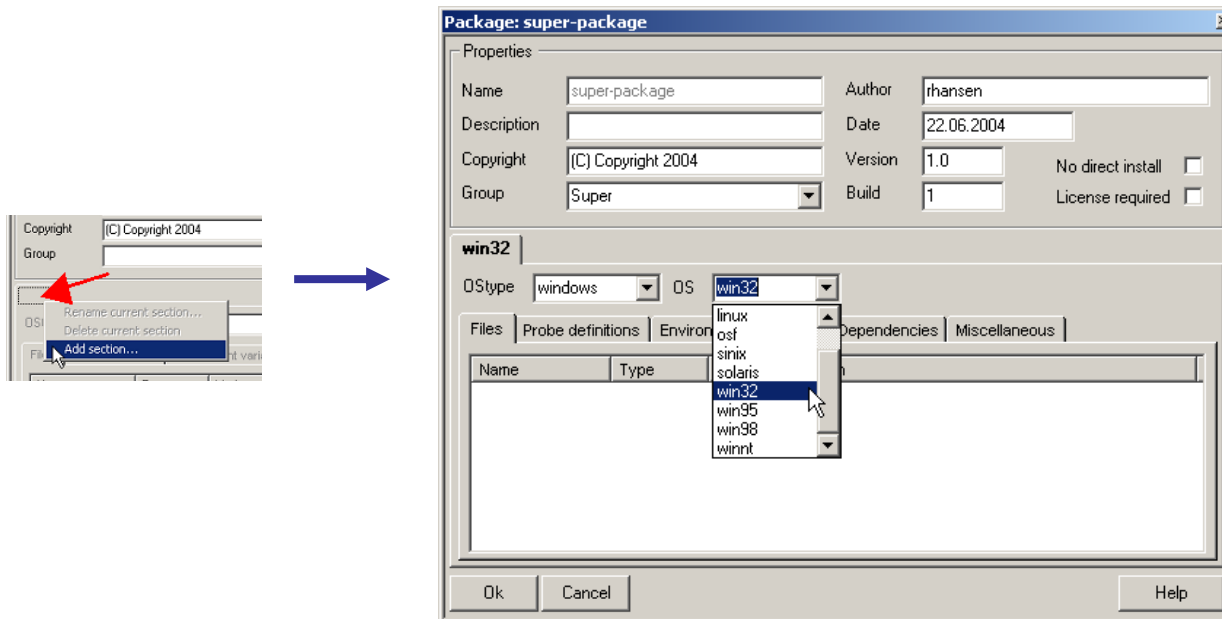# Setting up the " Superpackage"

Locate and select the super-package in the archive, right-click and select *Edit*. You are now going to define the contents of the super package.
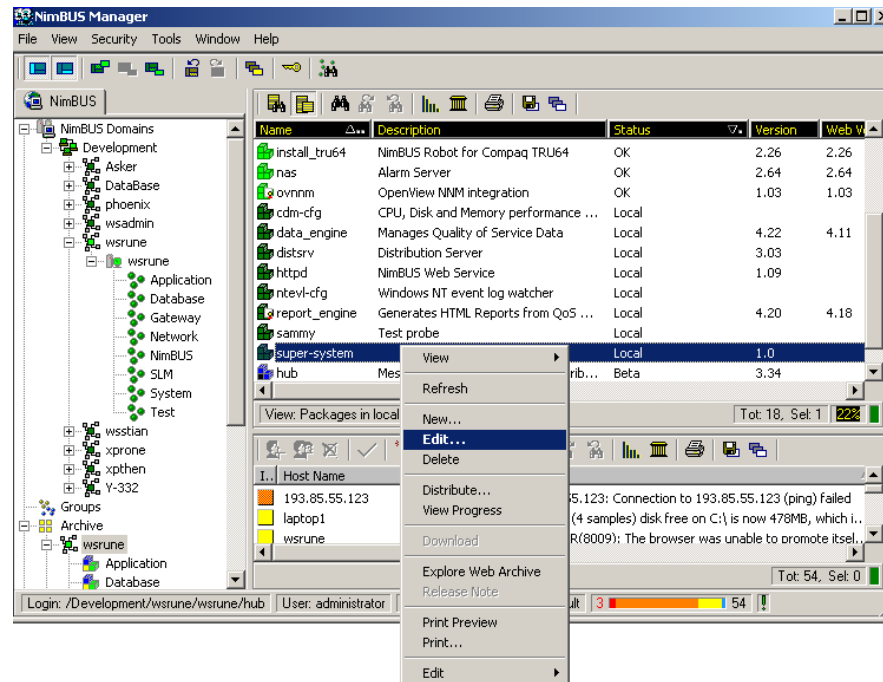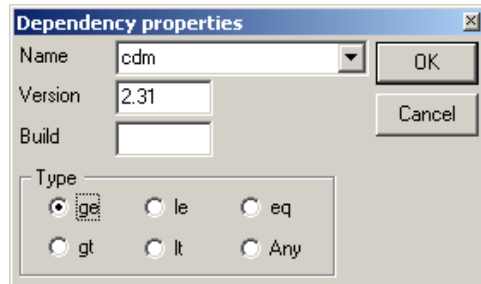
Step 1 - Set OS-type

Click the tab for Ostype and select *Add section* to make a section. For distribution to <u>windows</u> computers, give the section the name win32 and select *Ostype = windows* and *OS = win32*.

Step 2 - Set dependencies for the probes

Click the *Dependencies* tab, click in the window and select *Add dependencies*. Type the probe name (cdm) and optionally the Version number.

<u>Just probe name</u>, the package will only distribute computers where the probe does <u>not</u> exist.

<u>If you include the version number</u>, the package will only distribute to computers where the probe does not exist, and to computers where the probe exists in an older version.
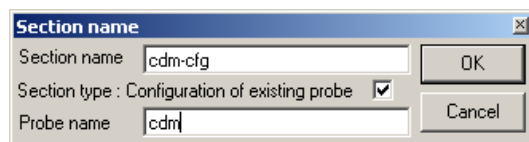
Make a new tab called cdm-cfg. Select the option *Configuration of existing probe* and type **cdm** in the *Probe name* field. Click the OK button.

Do the same for the processes probe.

Step 3 - Add the .cfx files
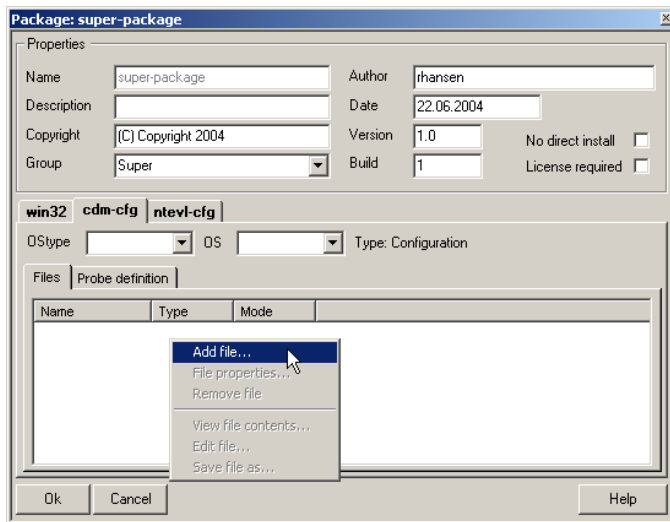
Select the cdm-cfg tab and click the *Files* tab. Right-click in the window and select *Add file*.
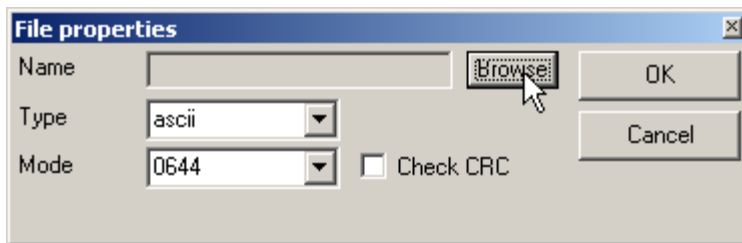
Select *Browse* to find the cdm.cfx file you saved in earlier and click the OK button.

Select the *processes-cfg* tab and perform the same steps for the processes probe.

Step 4 - Distribute the package

Finally, click the OK button in the super-package dialog to finish the procedure.
Now the super-package (including the two probes with their configuration parameters) can be distributed, using drag and drop.

The package can be distributed to:

- a single Robot
- a Hub, including all underlying Robots
- a Domain, including all underlying Hubs and Robots

Tracking your results

- Inspect the Robot you deployed the super package to and check to ensure the changes took.

- If not, inspect the distsrv log and then the .cfx to try and troubleshoot what went wrong.

Modifying disk discovery

- Create a template that will discover all disk drives and enforce standard configuration on them (without imposing drives that DON'T exist)

- Syntax on following slide

Disk config example

```
<disk> overwrite

        interval = 15 min

        samples = 4

        <alarm> overwrite

                active = yes

                <connections> clear

                </connections>

                <fixed> clear

                </fixed>

        </alarm>

        <fixed_default> overwrite

                active = yes

                qos_disk_usage = yes

                qos_disk_usage_perc = yes

                percent = yes

                <error> overwrite

                        active = yes

                        threshold = 10

                        message = DiskError

                </error>

                <warning> overwrite

                        active = yes

                        threshold = 15

                        message = DiskWarning

                </warning>

        </fixed_default>

</disk>
```

ca technologies

Request.cfg (optional when using script/silent installs)

- Create a simple text file with the following format called "request.cfg" and place it in the Nimsoft directory to force the robot to pull specifically referenced probes down when the robot starts up (be sure it has access to a local distsrv)

```
<distribution request>
  packages = cdm, processes, etc
</distribution request>
```

- Use this in conjunction with new robot deployment or to ensure configuration will be maintained

Other Helpful Notes

Multiple O/S platforms and O/S bits

- You can either create multiple packages with each os|ostype specified, (e.g for 32-bit and 64-bit platforms)

- Or blankout os and ostype both to make it platform-neutral

- Stay aware of probes which are OS dependent, e.g cdm. So, for example, if you build one with win32 and win64, you can stack multiple *.cfx files under each O/S tab

- Make sure you import.cfx's from the appropriate robots, e.g., Windows, Unix, Linux versions, etc.) ...