



Installation and Administration Guide

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|--|-------------------------|----------------------------|
| Product: n-Client MSI | Version: 3.3 | Version do Doc.:1.0 |
| Author: Test Team | Date: 22/01/2010 | |
| Applies to: Customers and Resellers | | |

| Details of Change Document | |
|-----------------------------------|--------------|
| Changed by: | Date: |
| Release Note: | |

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1. Introduction

The NDDigital n-Client MSI allows the distribution of software n-client via Group Policy defined in Active Directory, without the need to install on each station separately. A detail from MSI package is to find n-client or print Accounting is already installed, it will remove them before installation.

For the package to be installed with the settings you want, a MSI modifier package is needed. In this manual Orca modifier usage will be explained, which Defines settings for installation of MSI packages.

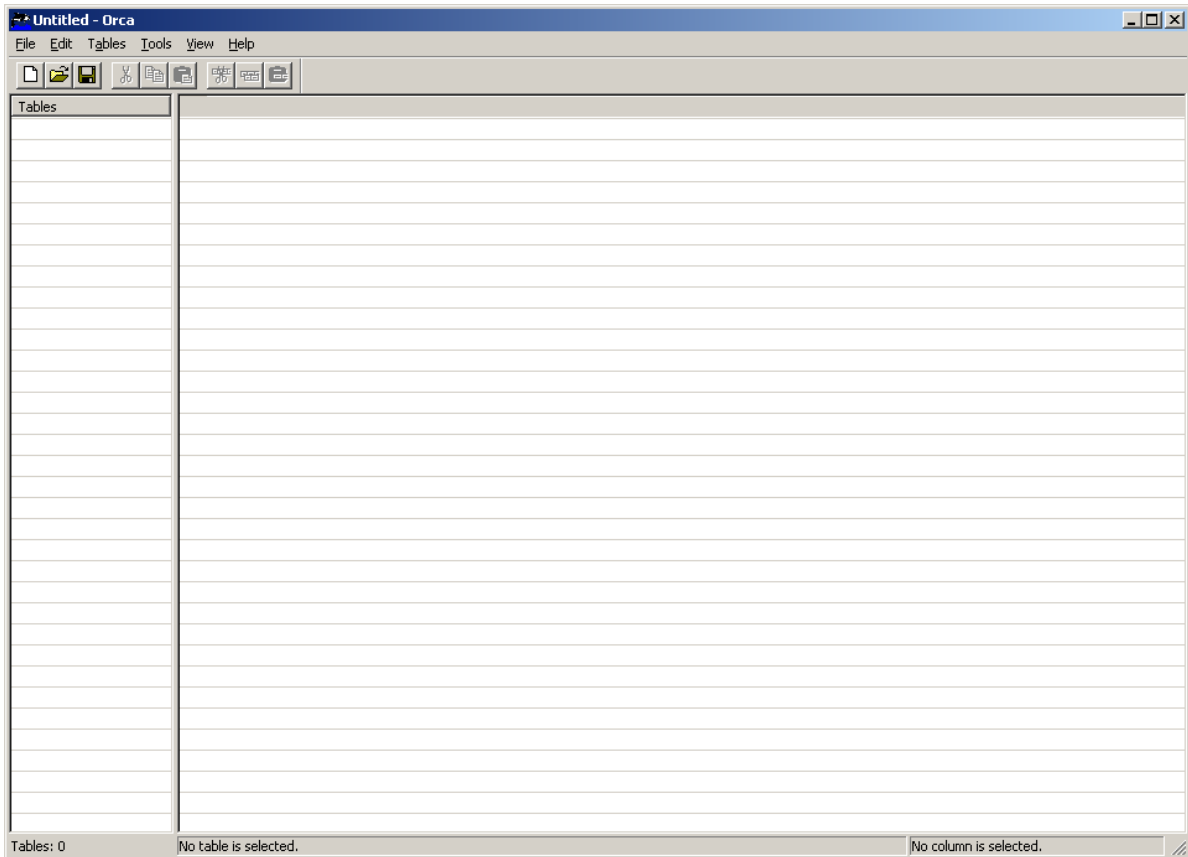
2. Installation package modification

As informed formerly Orca is a tool that aims to modify the MSI package settings, this tool is used to configure options as timeupdate, n-Host Server among others in our package.

To download the tool access the website <http://www.n-billing.com/n-Billing/Enterprises/Downloads.aspx>.

2.1 Settings

After installing the tool, you must open it. The following screen appears:



To edit the package click **File>Open** and find the MSI package you want to Edit.

2.2 Tables

After opening the package, MSI file tables are listed in the left pane. **Registry** is the table that holds the settings that is possible to modify."

| Tables | Registry | Root | Key | Name | Value |
|------------------|------------|------|--|--------------------------|--------------------|
| Patch | Registry1 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | AcLPDPort | [REG_VALUE_AC_LPD_ |
| PatchPackage | Registry10 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | TimeUpdate | 33 |
| ProgId | Registry11 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | TimeUpdateStatus | [REG_VALUE_TIME_UF |
| Property | Registry12 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | UseNovell | [REG_VALUE_USE_NO' |
| PublishComponent | Registry13 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | NovellTemp | c:\NDDNovell |
| RadioButton | Registry14 | 2 | SYSTEM\CurrentControlSet\Services\nCService | FailureActions | #x0000000000000000 |
| RegLocator | Registry2 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | AcRemotePort | [REG_VALUE_AC_REM |
| Registry | Registry3 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | ForceDomain | NDD |
| RemoveFile | Registry31 | 2 | SYSTEM\CurrentControlSet\Control\Print | DisableServerFilePooling | #1 |
| RemoveIniFile | Registry4 | 2 | SYSTEM\CurrentControlSet\Services\Eventlog\Sy... | | |
| RemoveRegistry | Registry5 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | PJLUserAnalyze | [REG_VALUE_PJL_USE |
| ReserveCost | Registry6 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | StatusMonitor | [REG_VALUE_STATUS_ |
| SFPCatalog | Registry7 | 2 | SYSTEM\CurrentControlSet\Services\Eventlog\Sy... | MaxSize | #65536000 |
| SelfReg | Registry74 | 2 | SOFTWARE\NDDigital\DCSClient\Channels | DefaultChannel | sockets |
| ServiceControl | Registry75 | 2 | SOFTWARE\NDDigital\DCSClient\Channels | sockets | port=5656 |
| ServiceInstall | Registry76 | 2 | SOFTWARE\NDDigital\DCSClient | - | |
| Shortcut | Registry78 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | PathInstall | [INSTALLDIR] |
| Signature | Registry79 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | DcsServer | 192.168.10.26 |
| TextStyle | Registry8 | 2 | SYSTEM\CurrentControlSet\Services\Eventlog\Sy... | Retention | #0 |
| TypeLib | Registry80 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | - | |
| UIText | Registry81 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | UpdateVersion | 8 |
| Upgrade | Registry82 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | Warning | 1000 |
| Verb | Registry83 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | ReleaseVersion | 2006R1 |
| _Validation | Registry84 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | JobInterval | 500 |

In the right pane will be listed the lines in this table. Through this table create, delete, and Edit the values of software registration n-Client is possible. Modified registry values are applied when the package is installed.

The values that can be modified are as follows:

- **AcLPDPort:** Value **1**: enables billing LPD ports. Value **0**: disables billing of LPD ports;
- **TimeUpdate:** time in minutes for sending Print logs to n-host;
- **AcRemotePort:** Sequence value enables or disables billing of remote ports. Values 1 or 0, default 0
- **ForceDomain:** name of mandatory domain in which prints will be billing;
- **CheckPrinted:** clears jammed documents with printed status on printers;
- **DCSServer:** Address to which logs are sent.

Another editable row is "VERIFY_PRINTERS_EXISTS" which is located on the table, "property" on the Left. When the row is marked with value 1, then occurs the check for existence of printers. If there is no printer the software will not be installed. Marking with value 0 this verification doesn't occur, the package installs normally ignoring the existence or not of printers.

| Property | Value |
|-------------------------------|----------|
| DiskPrompt | [1] |
| UpgradeCode | {CAC... |
| ISCHECKFORPRODUCTUPDATES | 1 |
| VERIFY_PRINTERS_EXISTS | 0 |
| NewProperty2 | 0 |
| REG_VALUE_TIME_UPDATE | 30 |
| LBL_CLIENTE_ADDRESS | 0 |
| LBL_CLIENT_ADDRESS_TITLE | 0 |
| ApplicationUsers | AllUsers |
| AgreeToLicense | No |
| _IsMaintenance | Change |
| IS_SQLSERVER_USERNAME | sa |
| IS_SQLSERVER_AUTHENTICATION | 0 |
| SetupType | Typical |
| _IsSetupTypeMin | Typical |
| Display_IsBitmapDlg | 1 |
| REGSVR32 | regs... |
| ARPCONTACT | supo... |
| ARPHLINK | http... |
| ARPHLELEPHONE | (49) ... |
| ARNOMODIFY | 1 |
| ARNOREMOVE | 1 |
| ARPCONFIRM | 1 |

2.3 Changing a row

For example, let's change the TimeUpdate record value. Select the table "Registry" and on the row where is written "TimeUpdate" double click on the value to be changed which in this case is on the column "Value" as indicated below. After Double clicking, you can edit the value. After edited, type **Enter**.

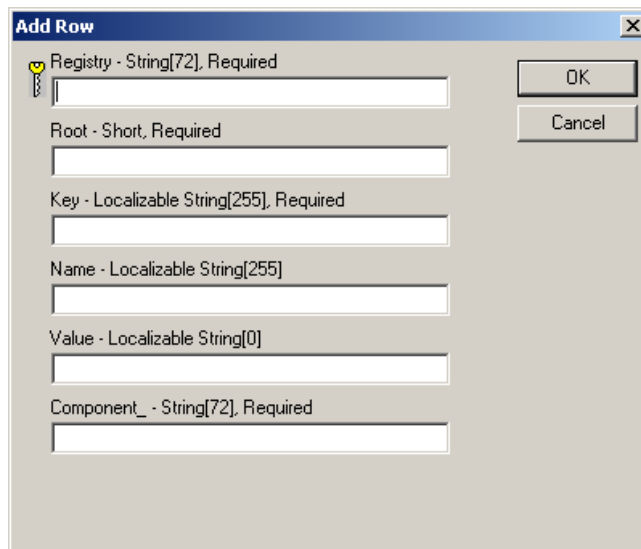
| Registry | R... | Key | Name | Value | Component_ |
|-------------------|----------|--|--------------------------|---------------------|----------------------------|
| Registry1 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | AcLPDPort | [REG_VALUE_AC_RE... | ISRegistryComponent |
| Registry10 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | TimeUpdate | 33 | ISRegistryComponent |
| Registry11 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | TimeUpdateStatus | [REG_VALUE_TIME... | ISRegistryComponent |
| Registry12 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | UseNovell | [REG_VALUE_USE_N... | ISRegistryComponent |
| Registry13 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | NovellTemp | c:\NDDNovell | ISRegistryComponent |
| Registry14 | 2 | SYSTEM\CurrentControlSet\Services\nC... | FailureActions | #x00000000000000... | ISRegistryComponent |
| Registry2 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | AcRemotePort | [REG_VALUE_AC_RE... | ISRegistryComponent |
| Registry3 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | ForceDomain | NDD | ISRegistryComponent |
| Registry31 | 2 | SYSTEM\CurrentControlSet\Control\Print | DisableServerFilePooling | #1 | ISRegistryComponent |
| Registry4 | 2 | SYSTEM\CurrentControlSet\Services\Ev... | | | ISRegistryComponent |
| Registry5 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | PJLUserAnalyze | [REG_VALUE_PJL_U... | ISRegistryComponent |
| Registry6 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | StatusMonitor | [REG_VALUE_STATU... | ISRegistryComponent |
| Registry7 | 2 | SYSTEM\CurrentControlSet\Services\Ev... | MaxSize | #65536000 | ISRegistryComponent |
| Registry74 | 2 | SOFTWARE\NDDigital\DCSClient\Channels | DefaultChannel | sockets | ISRegistryComponent |
| Registry75 | 2 | SOFTWARE\NDDigital\DCSClient\Channels | sockets | port=5656 | ISRegistryComponent |
| Registry76 | 2 | SOFTWARE\NDDigital\DCSClient | - | | ISRegistryComponent |
| Registry78 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | PathInstall | [INSTALLDIR] | ISRegistryComponent |
| Registry79 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | DcsServer | 192.168.10.26 | ISRegistryComponent |
| Registry8 | 2 | SYSTEM\CurrentControlSet\Services\Ev... | Retention | #0 | ISRegistryComponent |
| Registry80 | 2 | SOFTWARE\NDDigital\n-Billing\n-Client | - | | ISRegistryComponent |

2.4 Adding or deleting rows

There are cases where adding or deleting rows is necessary.

To delete a row select it and then right-click and choose the option **Drop Row**.

To create a new row, a registry value, which is not in the MSI package go to the Menu **Tables** and select **Add Row**. Then the screen below appears:



Here some values must be configured:

Registry –String[72]: Type 1

Note: this value must be incremented on every new created row.

Root – Short: Type 2 (equivalent a HKEY_LOCAL_MACHINE)

Key – Localizable String[255]: Enter the location of the key will be created, eg.: SOFTWARE\NDDigital\n-Billing\n-Client.

Name – Localizable String[255]: enter the name of the key to be created, in our example will be **TimeUpdate**.

Value – Localizable String: Enter the value that the key access, in our example will be 30

Component - String[72]: the mandatory value to be entered is ISRegistryComponent.

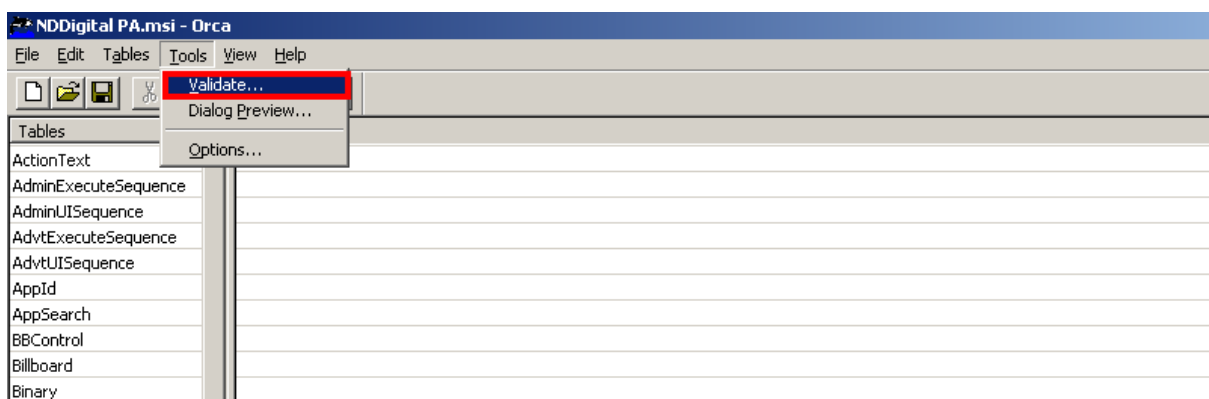
After doing these settings click **OK**.

The created row corresponds to a value to be created in the Windows registry when the software n-Client is installed. NDDigital is not responsible for incorrectly user-created record values which may damage the system.

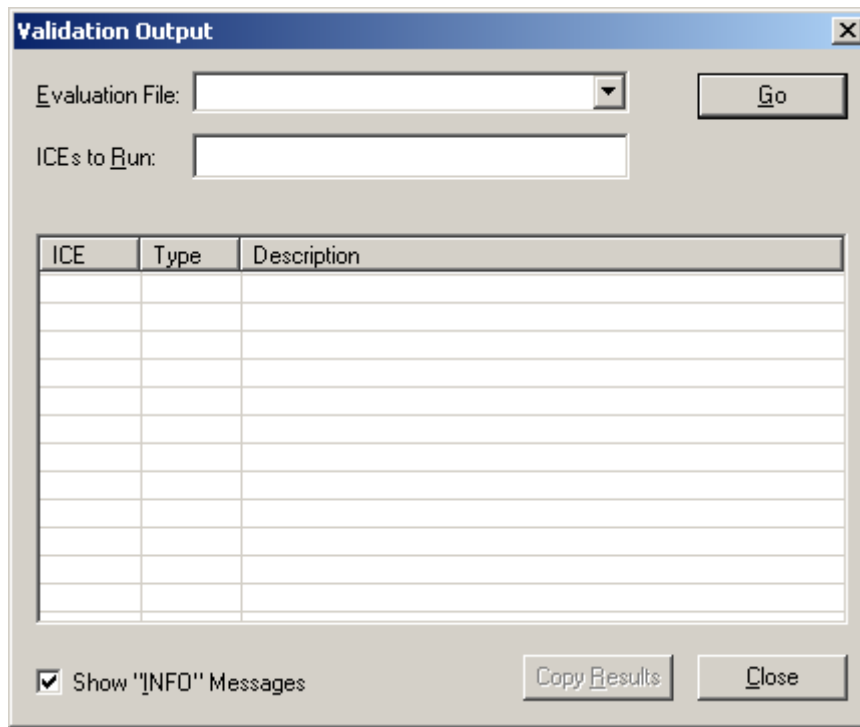
2.5 Saving information

After changes were made go to menu **File** and click **Save**, this will save the MSI package changed values.

Is also recommended to click on **Tools>validate** as indicated in the following figure:



After that the following window will open:



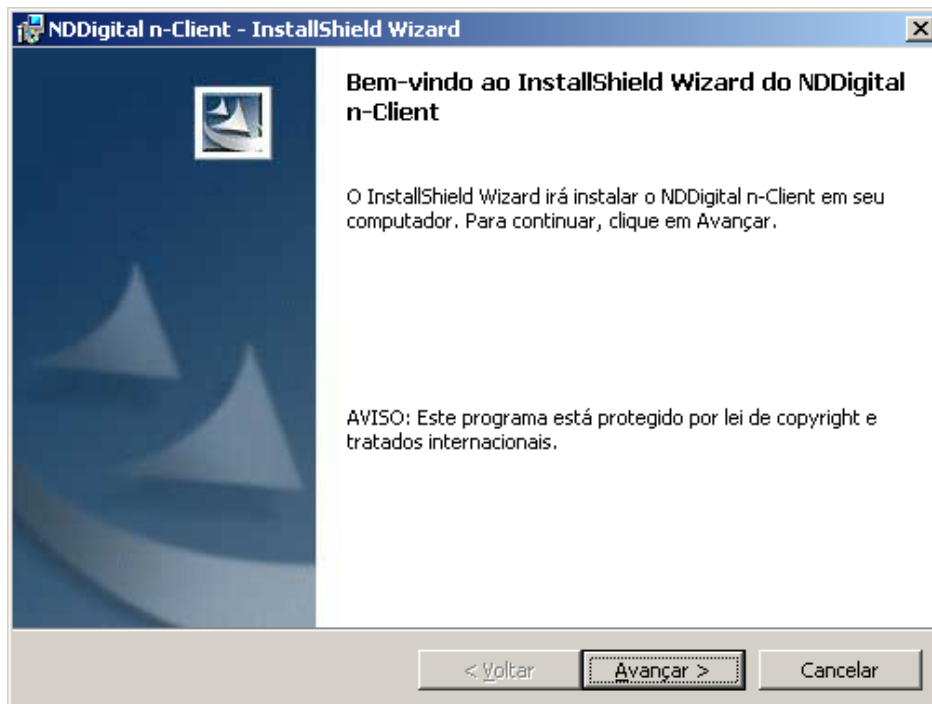
Here the first option on **Evaluation File** must be selected. Then click **Go**.

This procedure prevents possible failures in the package by notifying you if there is any serious irregular configuration.

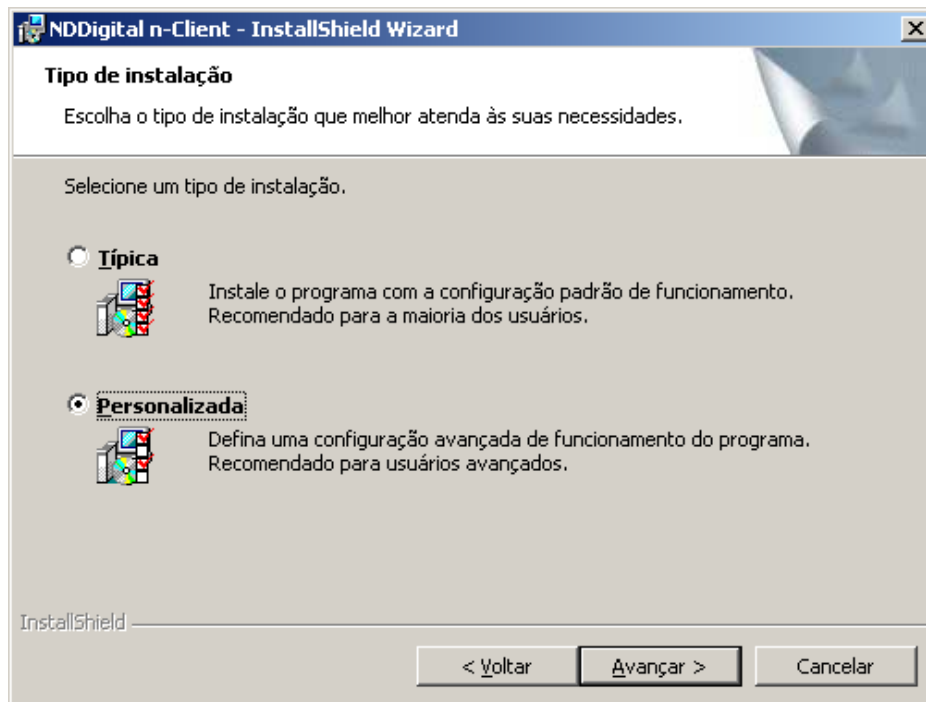
For more information about Orca go to <http://support.microsoft.com/kb/255905/EN-US/>

3. Installing Manually

To perform n-Client installation manually simply run the MSI package, the following screen appears, it will present an introduction to product installation. Click **Next** to continue the installation.

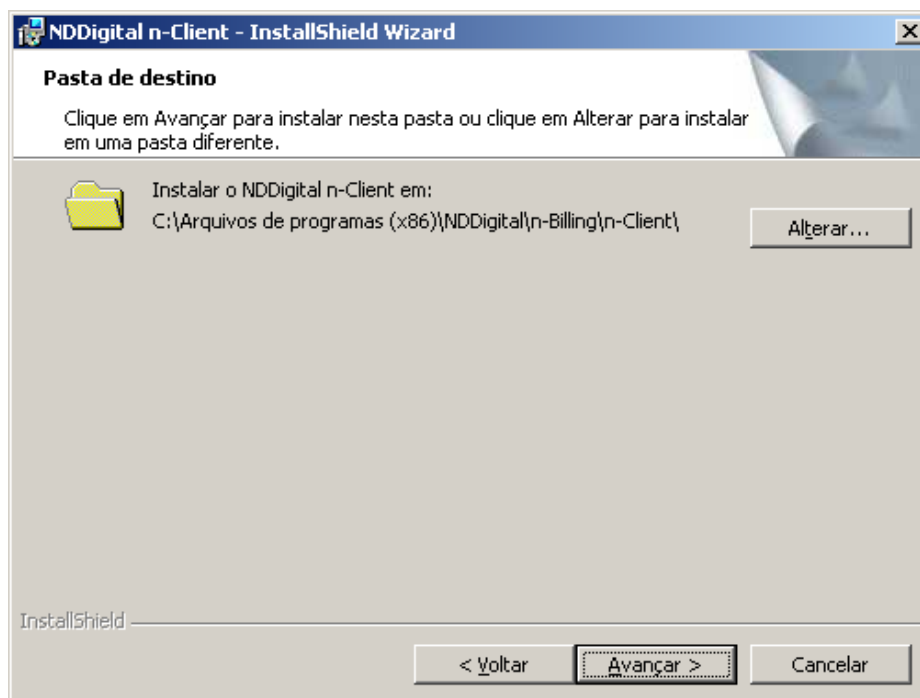


On the next screen the option to choose between typical or Advanced Setup will show. Choose the option you want and click **Next** to continue the installation.

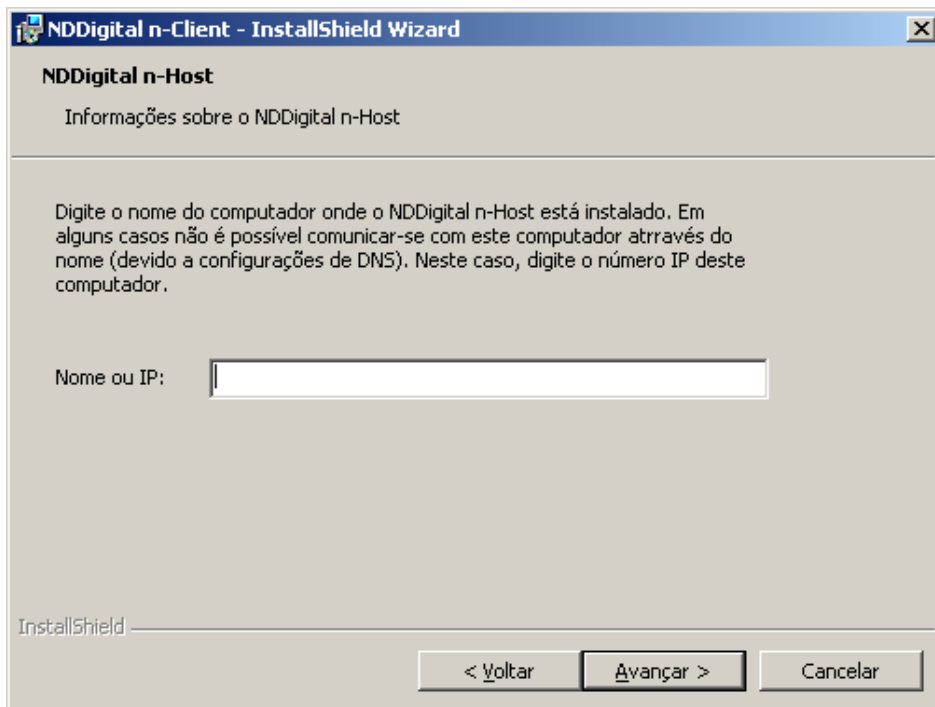


3.1 Typical

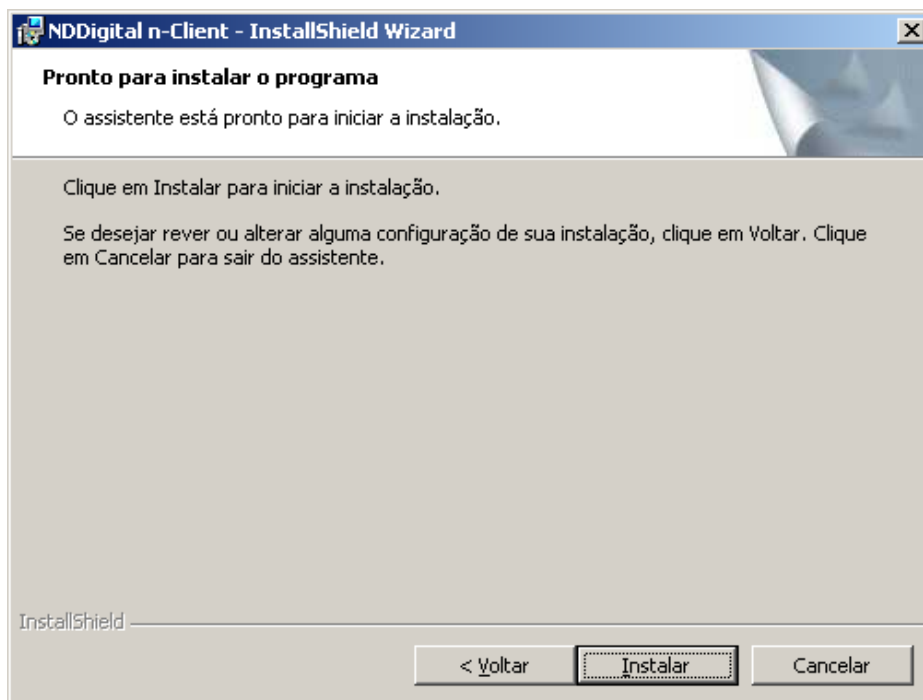
When choosing the Typical Installation the following screen appears. Choose the installation location and click **Next** to continue Setup.



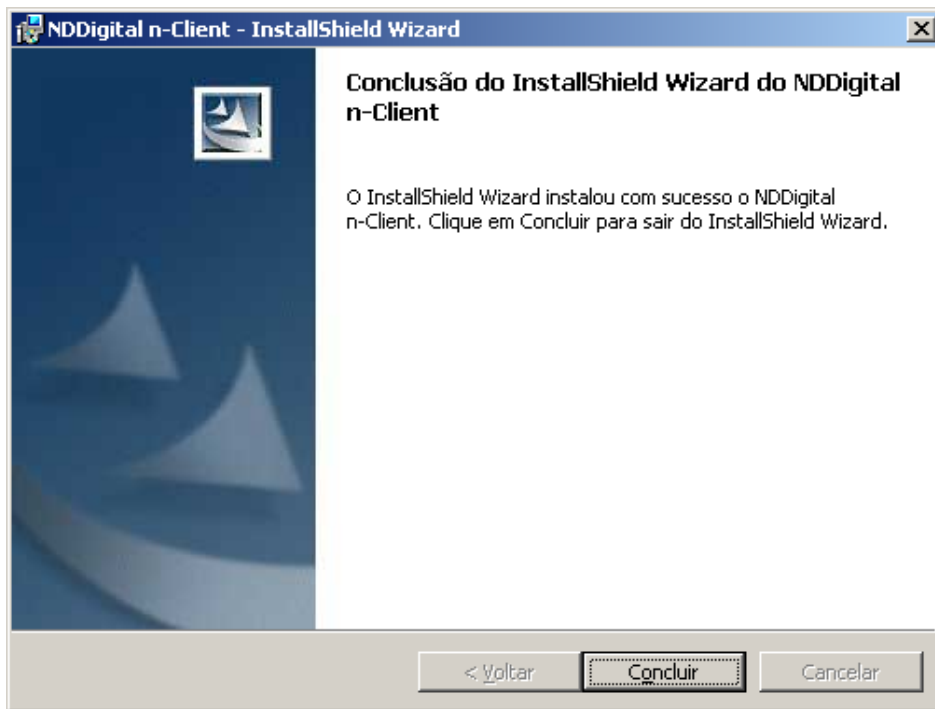
The n-Host server configuration screen will be displayed. Type the IP or name of the machine where the n-Host will be installed, after making this settings click **Next** to continue the installation.



The next screen will be informational warning you that Setup will start, to continue installation click **Install**.

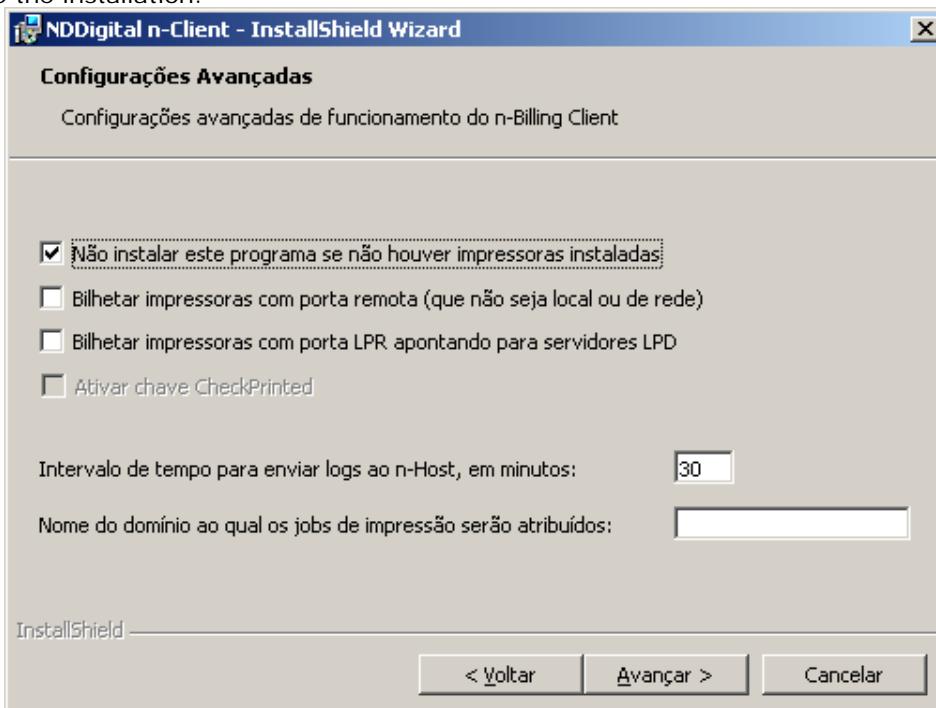


The n-Client will be installed, then the following screen appears. Click **Finish** to complete the installation.

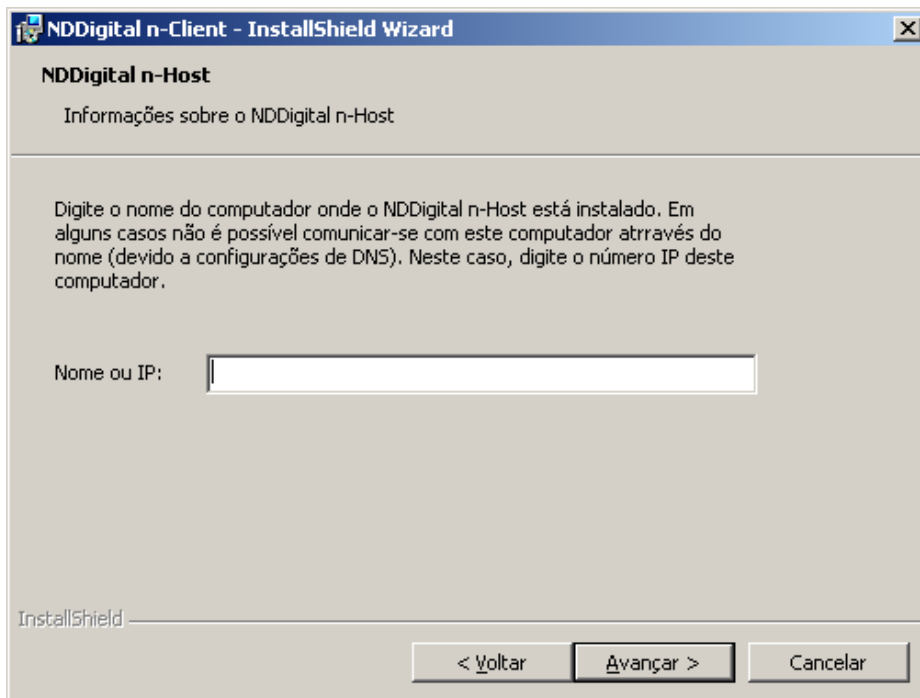


3.2 Customized

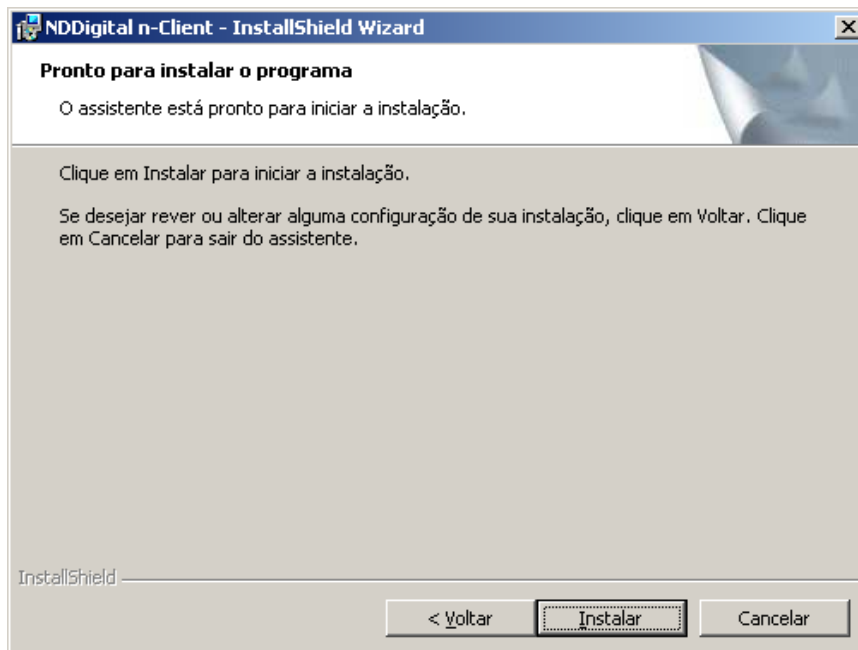
When choosing the Customized Installation the following screen appears. it is possible to perform some settings, such as uploading interval, force domain among others. After making these settings click **Next** to continue the installation.



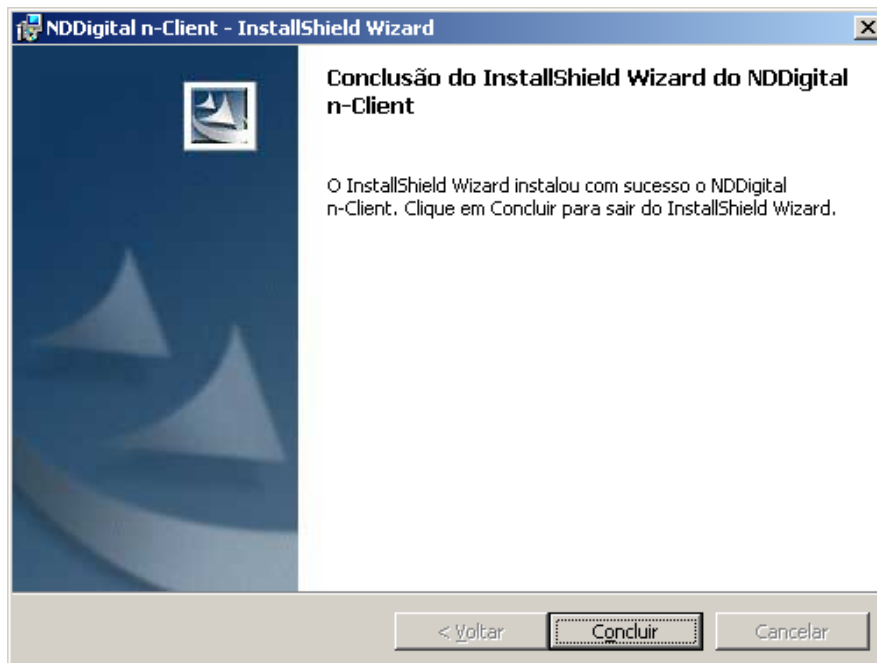
The n-Host server configuration screen will be displayed, type the IP or name of the machine where the n-Host will be installed. After making this settings click **Next** to continue the installation.



The next screen will be informational warning you that Setup will start, to continue installation click **Install**.



n-Client will be installed, the following screen appears. Click **Finish** to complete the installation.



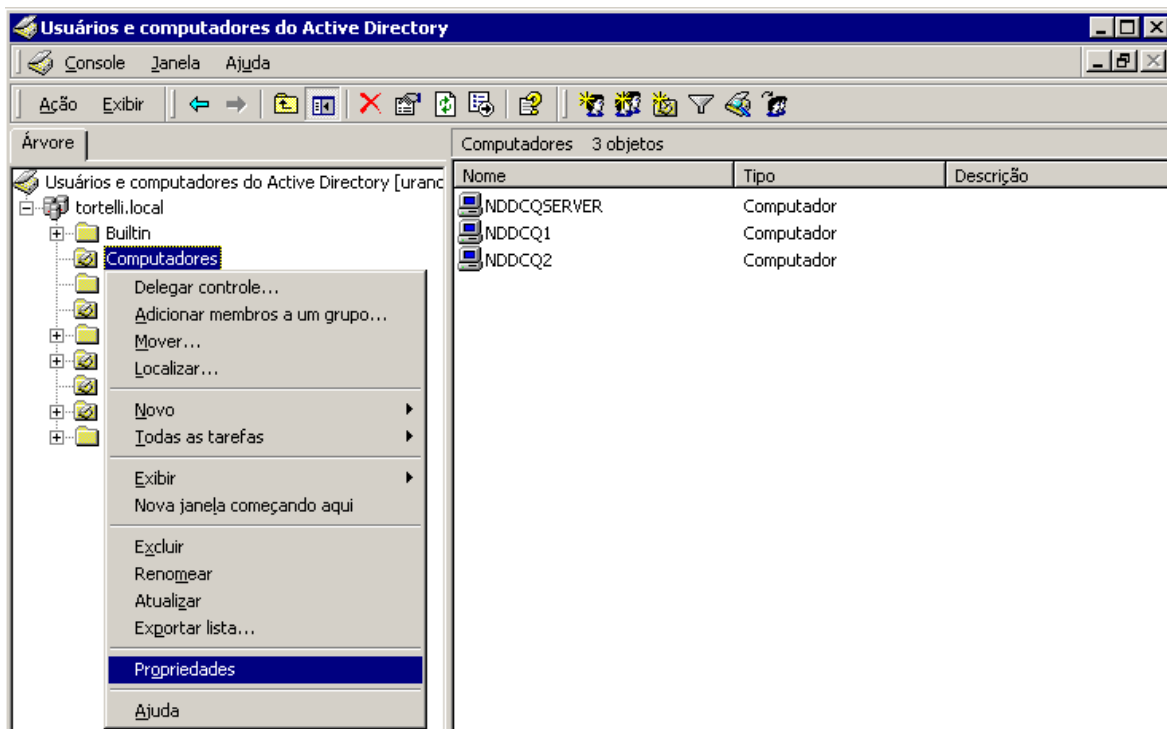
4. MSI Installation

To perform the installation of this mode first take a software distribution point. A distribution point is a shared folder where all users who will execute the software installation must have permission to access.

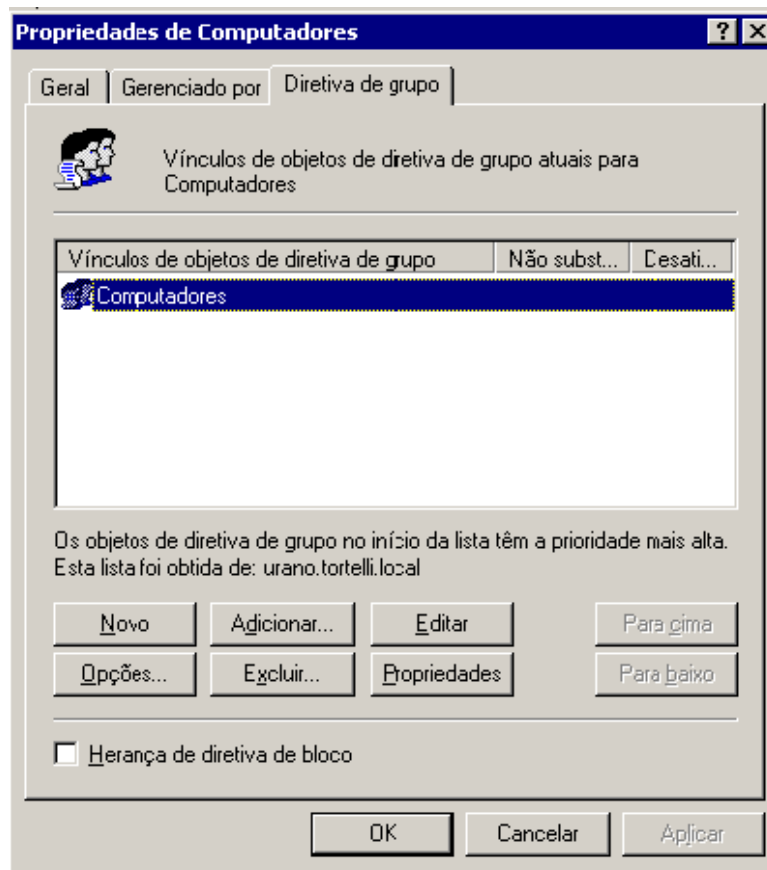
After creating this directory with the Installer **NDDigital n-Client.msi** inside, you should create a group policy to distribute the software packages.

For this access the **Active Directory** and choose an organizational unit to configure a policy:

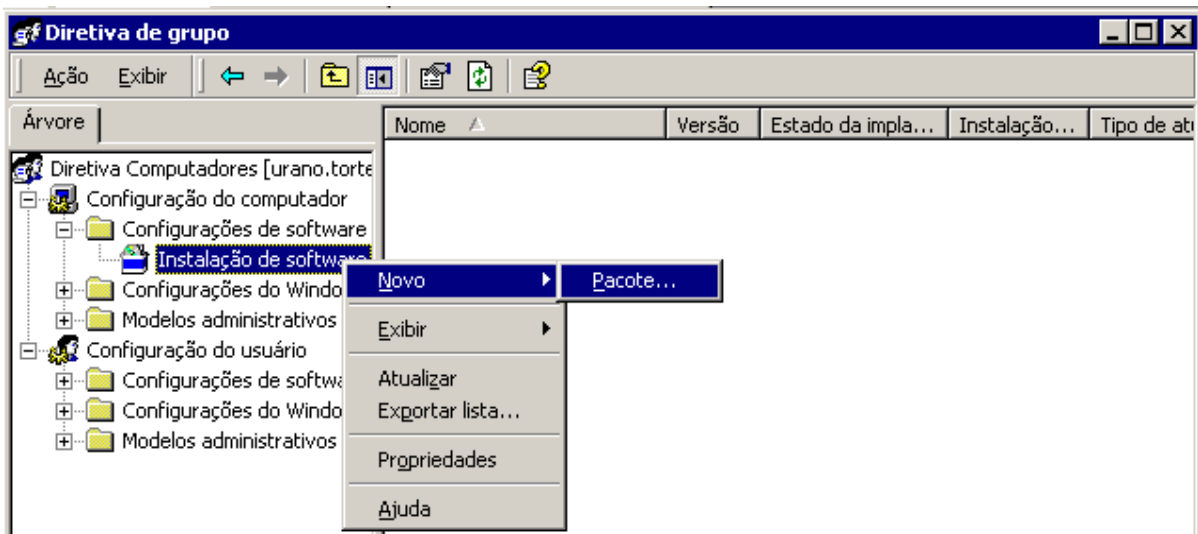
In this example, we'll use the organizational unit **Computers**, in which there are three computers to receive the installation packages. Then clicking with the right button on **Organizational Unit**, go to **Properties**.



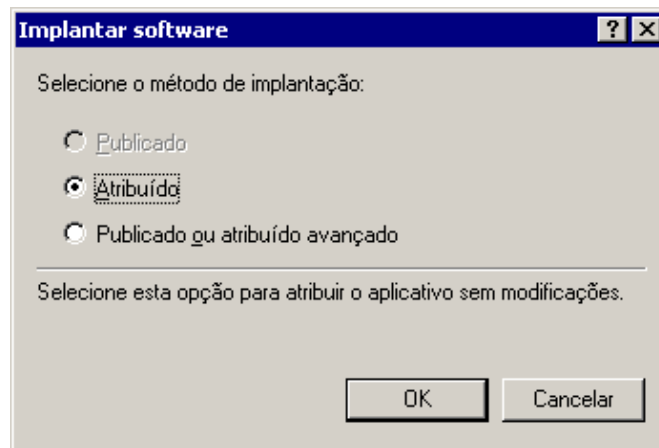
In the Organizational unit properties you must choose the tab **Policy Group**. After click **New**, name the policy and click **Edit**.



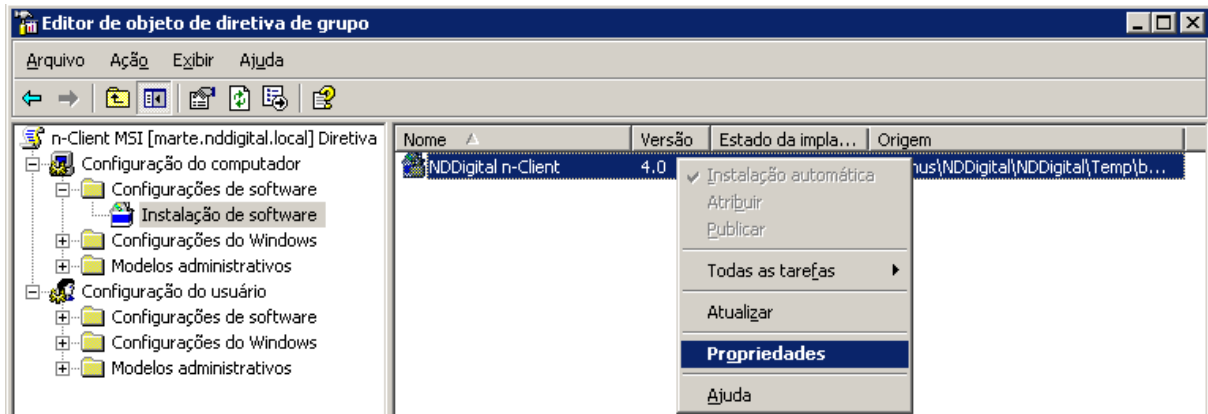
In the window that opens go to **Computer Settings** and expand the **Software Settings**. Right-click on **Software Installation**, point to **New** and click **Package**. When the dialog box opens select the file (NDDigital n-Client.msi) within the distribution folder and then click **Open**.



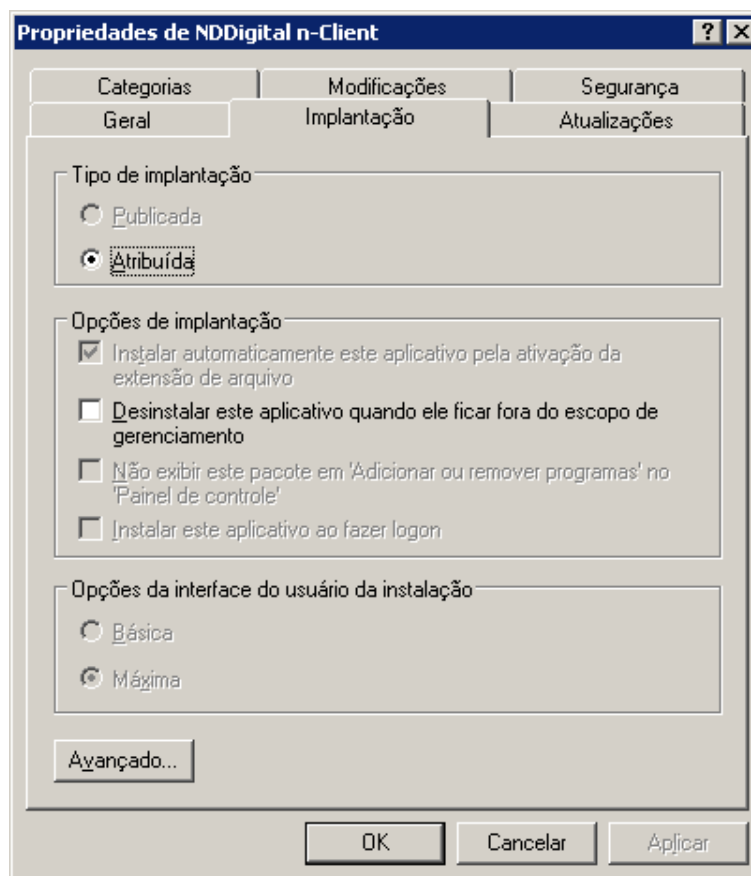
In the deploy software dialog box select the distribution method **Assigned** and click **OK**.



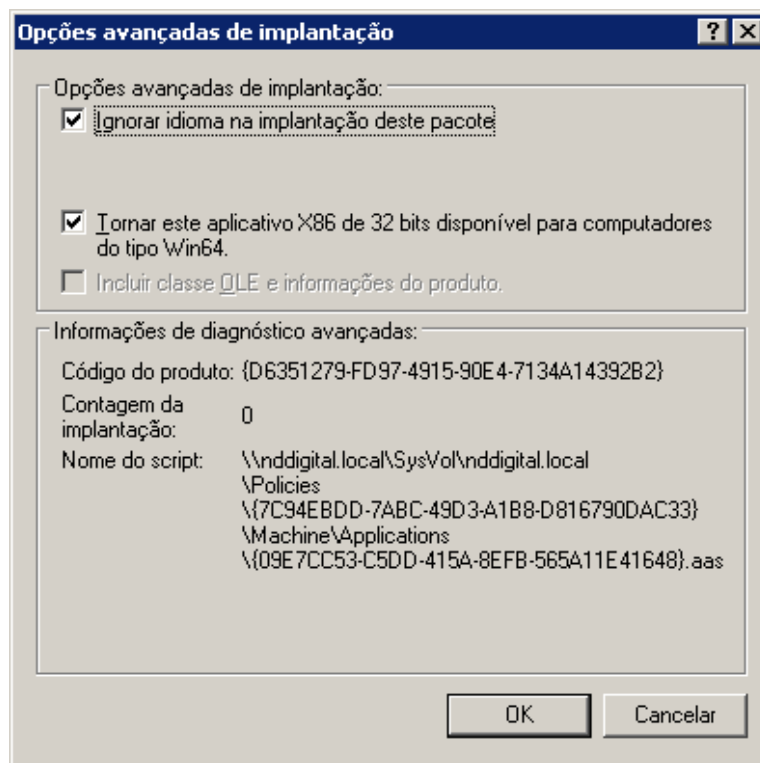
After publishing the package click on it and go to **Properties** as shown below:



Go to tab **Deployment** and click on **Advanced**:



In this window select the option **"Ignore language when deploying this package"**. Then click **OK**.



.:When the option **Assigned** is chosen, a silent installation is done using the **Orca** modifications. That means the key values in the Windows registry will be created as the MSI package was edited.

After this, when restarting the stations contained in the organizational unit for the first or second time, the software is deployed and already in operation.

5. Removing

The package **NDDigital n-Client.msi** was done for application via group policy, therefore there is no option for removal in the Control Panel. It may be removed only by group policy or using some parameters. For run these parameters go to **Start>Run** and type:

```
msiexec.exe /x "caminho do pacote.msi"
```

NOTE: when the package NDDigital n-Client.msi is installed on the same workstation of the n-Host, it should not be removed. Removing the package NDDigital n-Client.msi will affect the proper functioning of n-Host. In case removing is needed the n-Host must be reinstalled.