



# ***SmartDX***

## **ENOVIA SmarTeam® integrated data export**

### ***Installation Guide***

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**BPA Delivery 8 for V5R20 (V5.8)**

**Version: V5R20 (V5.8)**

**Date: 30.11.2007**

**Modified: 25.11.2010**

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## Update report

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Chapter	Date	Editor	Modification
All	30.11.07	Michael Hitz	Origin version
All	30.07.08	Michael Hitz	Revised for Drop 6
3.2.1	23.09.08	Michael Hitz	Add list of system files
2.2	20.11.08	Michael Hitz	There is no need any more for installation of LUM client on SmartDX Server or client side.
2.2	05.05.09	Michael Hitz	SmartDX Server will need SCRRUN.dll in WINDOWS\System32 – directory
2.1	28.01.10	Michael Hitz	Revised for Drop 8
All	28.07.10	ZVW	Revised for Drop8 SP3
All	25.11.10	ZVW	Revised for Drop8 SP4

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# 1 Introduction

This document describes the installation procedure for the SmartDX Business Process Solution. It contains both, the client side installation as well as the server side installation.

## 1.1 Related Documentation

- ENOVIA SmarTeam® - Editor Installation Guide
- ENOVIA SmarTeam® - Editor Administrator Guide
- ENOVIA SmarTeam® - Editor User Guide
  
- ENOVIA SmarTeam® - Foundation Installation Guide
- ENOVIA SmarTeam® - Foundation Administrator Guide
- ENOVIA SmarTeam® - Foundation User Guide
  
- SmartDX – Implementation Guide
- SmartDX – User Guide

## 1.2 Before Installing

### Notes

When installing, make sure that you have administrator privileges.

Close all other applications on the computer before proceeding with the installation.

## 2 Prerequisites

### 2.1 Required operating systems (SmartDX Client / SmartDX Server)

SmartDX requires the use of the following operation systems:

- Microsoft® Windows XP Professional 32 bit Service pack 3
- Microsoft® Windows XP Professional 64 bit Service pack 3
- Microsoft® Windows 7 Professional 64 bit

### 2.2 Software

SmartDX requires the installation of ENOVIA SmarTeam® Editor (EDR) R20GA (pre-required) SP04 (recommended).

In addition to this SmartDX server side requires at least one CATIA® installation with a release of R20GA (pre-required) SP04 (recommended).

Beside this an installation of the appropriate ENOVIA SmarTeam® - CATIA® TeamPDM (TDM) interface is needed.

SmartDX Server requires the installation of Microsoft® .Net Framework 2.0

SmartDX Server requires the availability of Microsoft® SCRRUN.dll in the installation directory WINDOWS\System32.

In order to enable LUM license mechanism SmartDX Server and Client requires the installation of the `vcredist_x86.exe` that is included in the installation package.

For more details regarding the appropriate software required by SmartDX please refer to the installation guide and / or to the Hardware and software requirements provided by the software vendors.

### 2.3 Default database

The basis database for this installation guide and the implementation guide is the separately supplied SmDemo. There is nothing to be said against to use the SDE / SNE – database (PLMDB) as well.

#### 2.3.1 Prerequisites to the database

- In the configuration settings the value for the **CATIA.ExposeMode** has been set to 'No' for the domain level.

## 3 SmartDX installation

The Installation of SmartDX consists of two installation setup executables

- CX9.exe
- SX9\_Server.exe

### 3.1 Preconsiderations

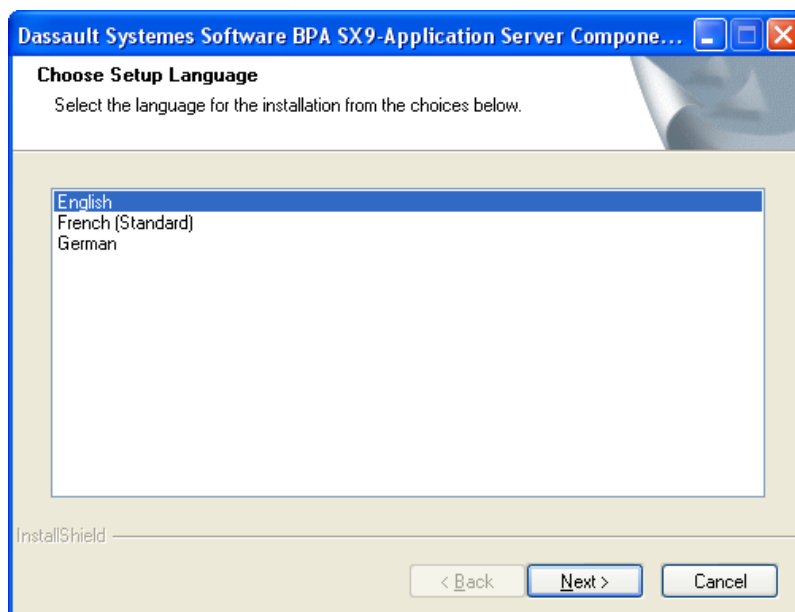
**If you intend to install the client and the server side on one machine (standalone) it is required to install the server side first and then the client side.**

### 3.2 Installation on the Server side

In order to install SmartDX on the server side you need to perform the Setup\_SmartDX\_Server.exe. This routine includes all required files to run SmartDX on the server side.

The following applications are part of the installation routine:

- SmartDX Server components (this enables the server side SmartDX batch processes)
- SmartDX demon (to launch the SmartDX server batch process)

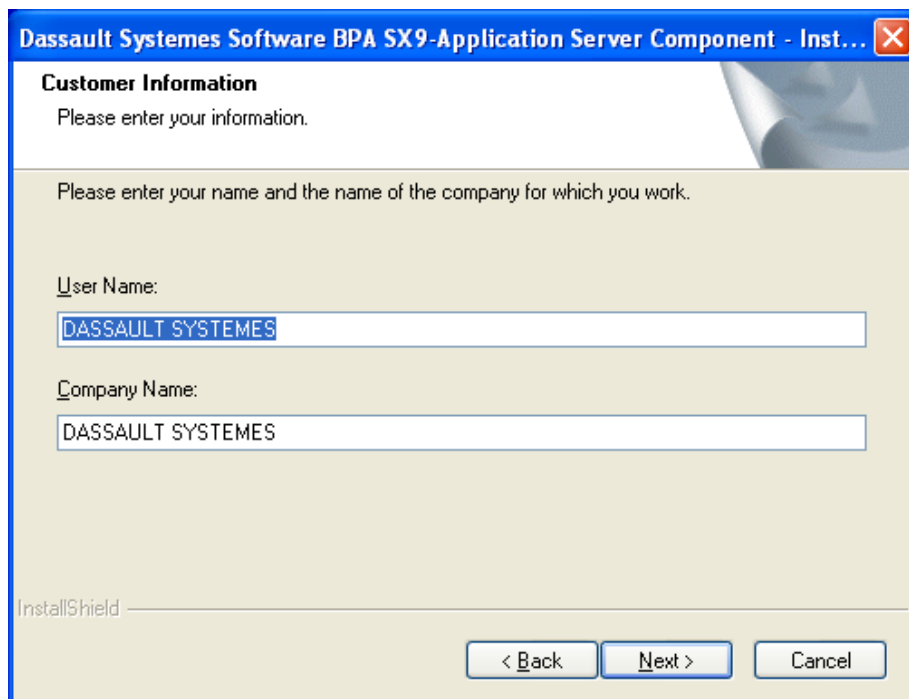


Choose the appropriate language for the installation procedure and click **OK**.

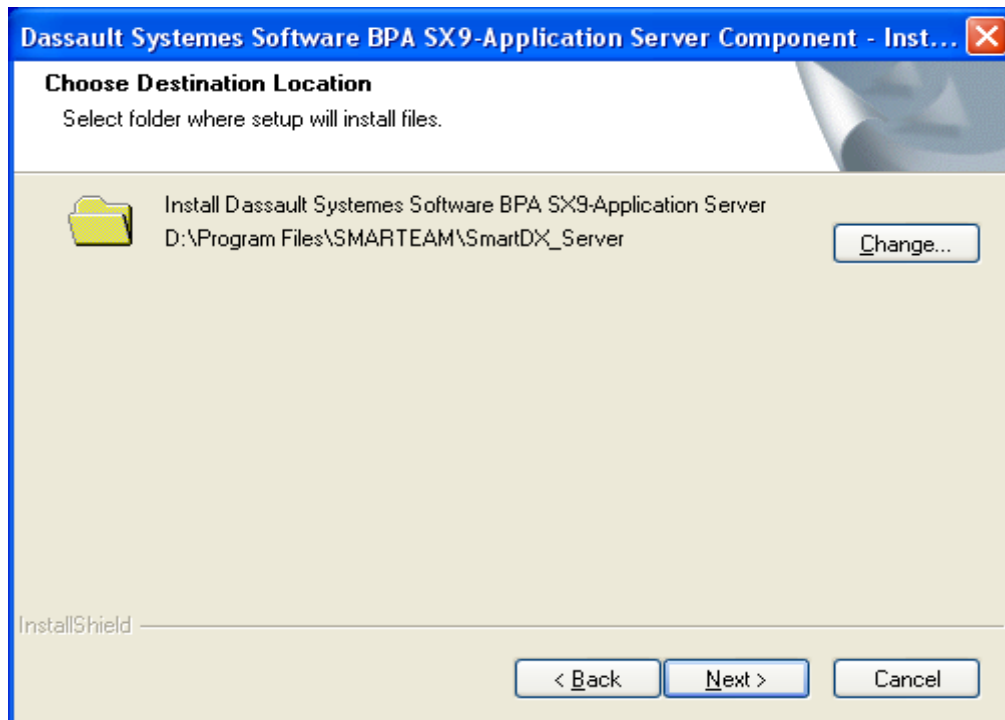




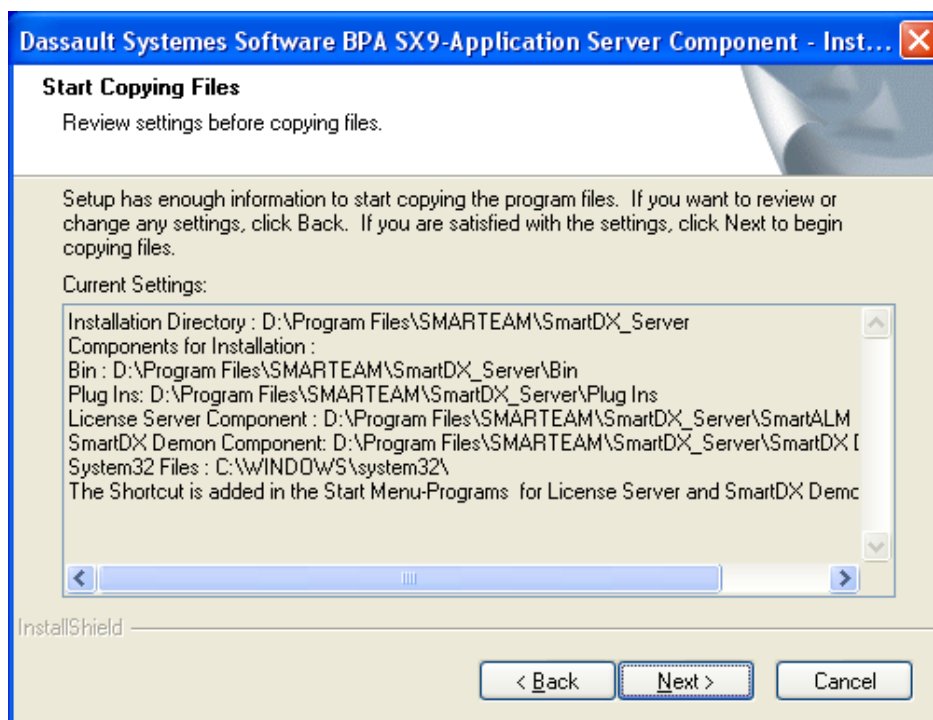
After preparing the installShield wizard the window above appears. Click *Next* to continue.



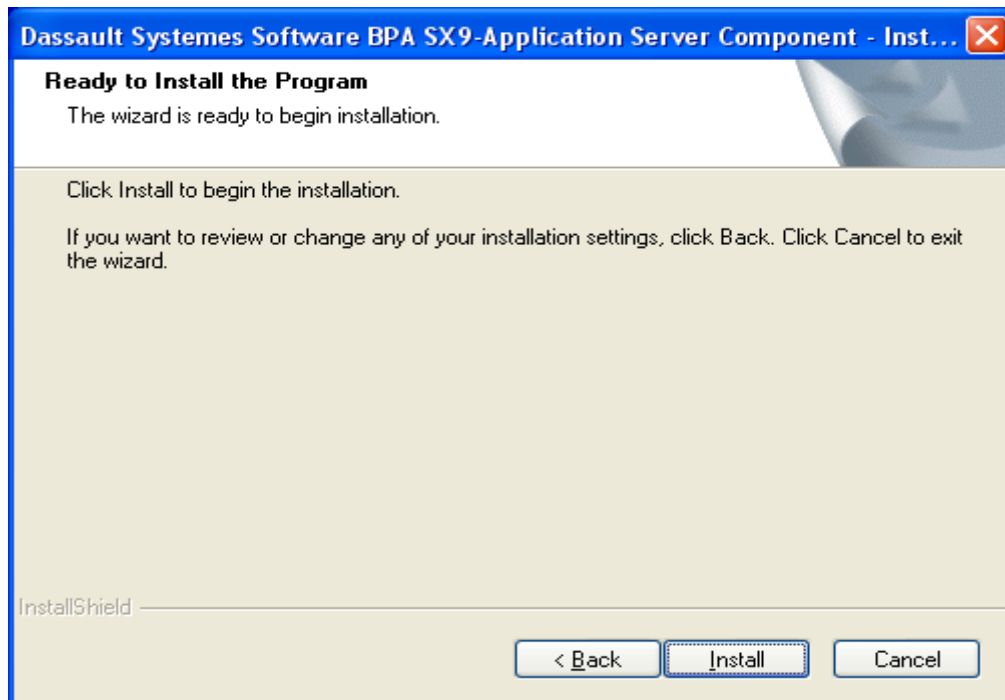
Enter your name and your company and then click *Next* to continue.



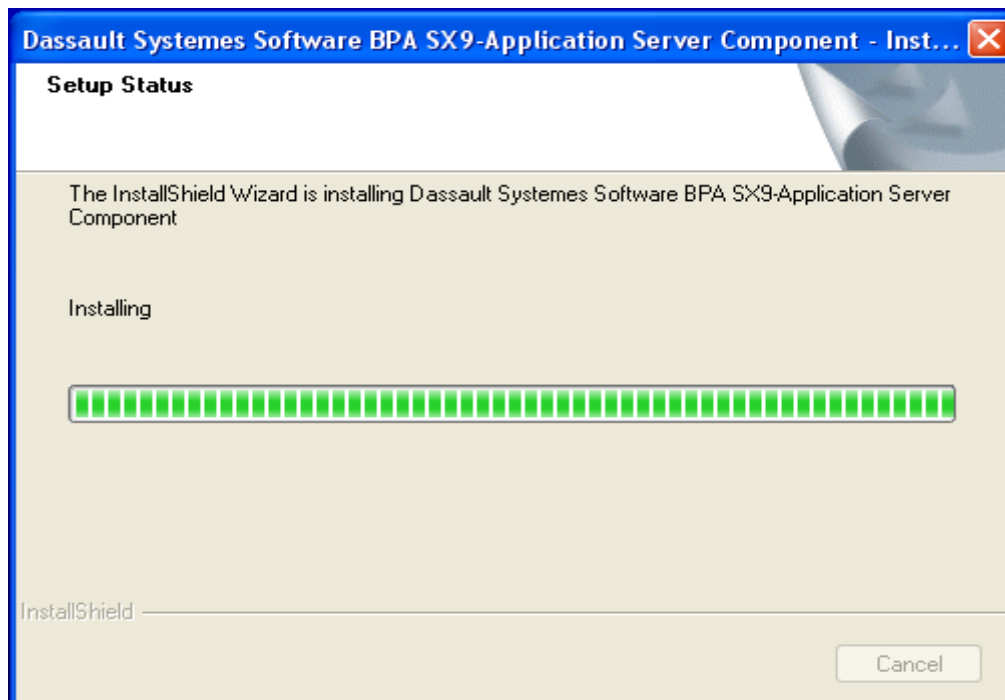
If you would prefer another destination folder click the *Change...* button in order to change the installation folder. Otherwise click *Next* to continue (this is recommended).



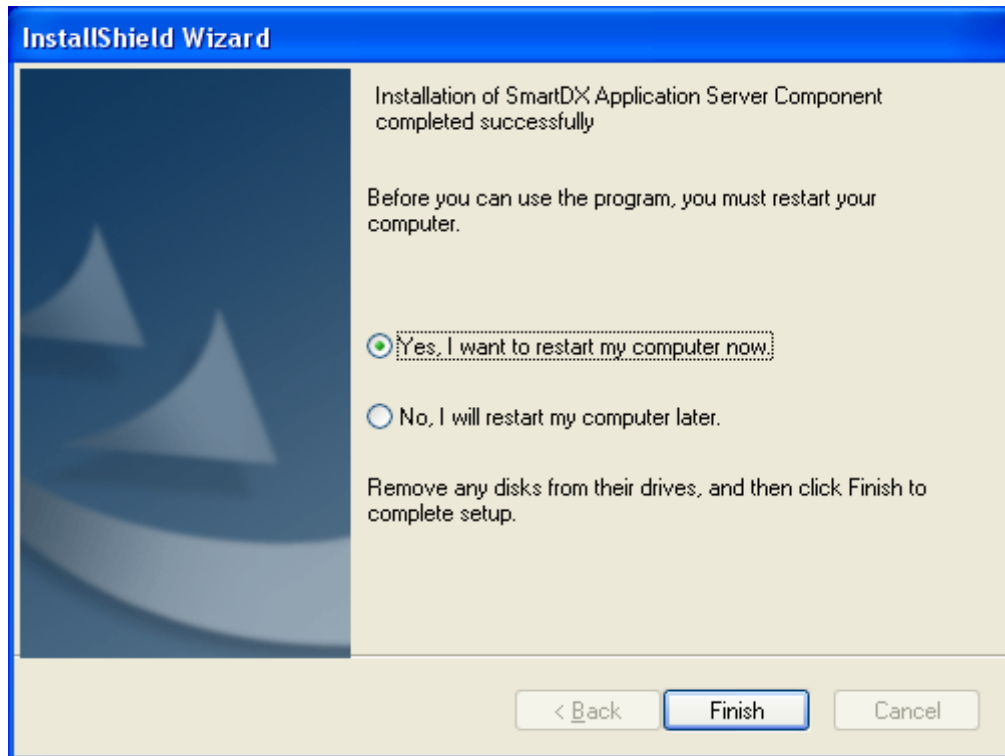
Verify the current settings and click *Next* to continue.



Click *Install* to start the installation

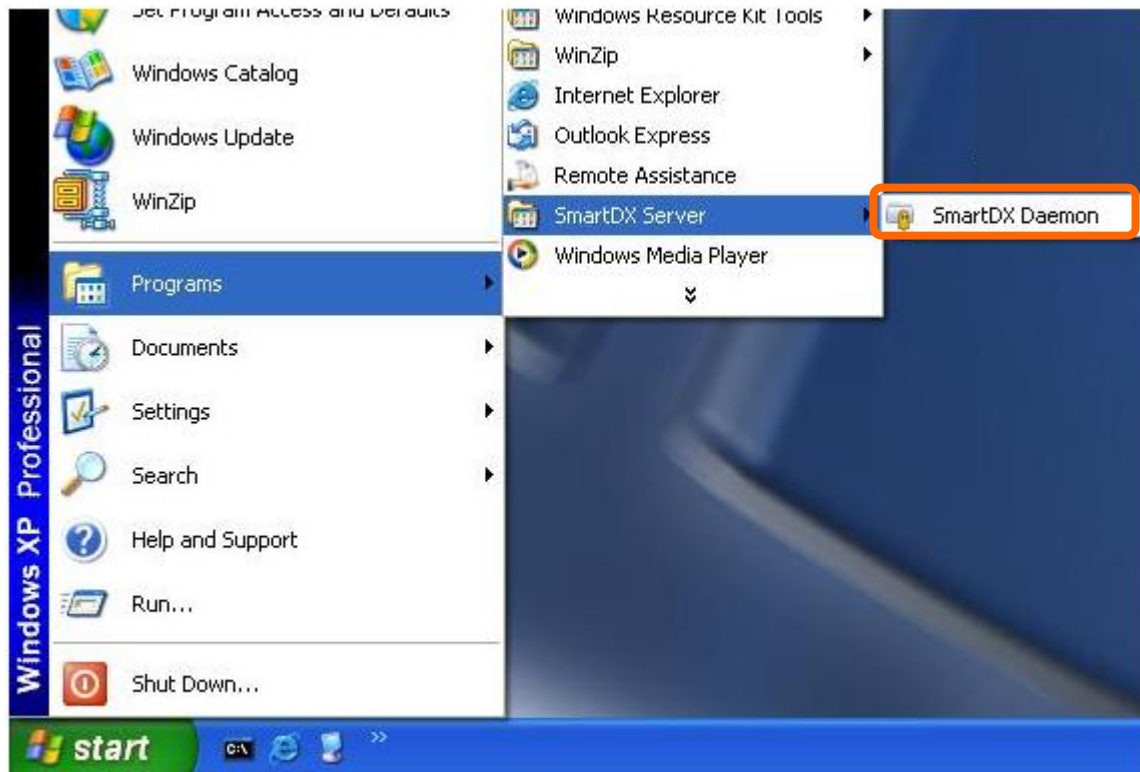


The installation procedure registers all required components.



To exit the wizard after the installation is completed click *Finish*.

After the installation has finished you will find 1 additional entry in your program menu and on the desktop



### 3.2.1 Files of delivery on the server side

#### 3.2.1.1 *Libraries*

- SmAdminTool.dll (1.2.0.0)
- SmartDX\_BeforeCADBatch.dll (1.0.0.0)
- SmartDX\_CatiaBatch.dll (7.0.0.0)
- SmartDX\_CATIABatch\_ACP.dll (6.0.0.0)
- SmartDX\_FinishDX.dll (1.0.0.0)
- SmartDX\_Objects.dll (1.0.0.0)
- SmartDX\_OdetteSend.dll (1.0.0.0)

- SmartDX\_RenameCatia.dll (1.2.0.0)
- SmartDX\_RenameCatiaSchema.dll (7.0.0.0)
- SmartDX\_SendCustom.dll (6.1.0.0)
- SmartDX\_SendMail.dll (1.0.0.0)
- SmartDX\_SmartStart.dll (1.0.0.0)
- SmartDX\_StructureFile.dll (1.0.0.0)
- SmartDX\_Zipping.dll (6.3.0.0)
- Tracen.dll (1.0.0.0)
- vbSendMail.dll (3.6.0.5)

### **3.2.1.2 Customizable libraries**

The customizable libraries consist of native Visual Basic 6 projects to customize the SmartDX Plug Ins to match the customers need. The following list gives an overview of the available, customizable libraries.

- Catia Rename (to build the rename string for renaming CATIA® documents in a more complex manner than the one which is supplied by default)
- Before CAD batch (to prepare data before running the CATIA® Batch process)
- Zip Files ( to compress all export data i. e. in gzip, tar or zip format)
- Structure File (provides the capability to use the default XML-based structure file to create the logical, structured format the customer needs (i. e. STEP AP 214 cc6, EngDat V3, ...)
- Custom Send mode (a full customizable send mode. If the user selects this send mode during the SmartDX wizard, this Plug in will run on the server side)

- Send Mail (a full customizable send mode. If the user selects this send mode during the SmartDX wizard, this Plug in will run on the server side. An example for sending data using a local SMTP Server is included)
- Odette Send mode (a full customizable send mode. If the user selects this send mode during the SmartDX wizard, this Plug in will run on the server side)
- Finish DX (provides the capability to 'clean up' after the data exchange process has finished)
- External Error Application (provides the capability to react in case of an error on SmartDX server)

#### **3.2.1.3 Executable files**

- SmartDX\_CallFunctions.exe (SmartDX server batch component, launched by the SmartDX Demon)
- GUIDaemon.exe (automatic polling to identify and launch new SmartDX batch processes)
- SmartDX\_ErrorAppl.exe (launches in case of an error during SmartDX Server. Customizable Plug In to react on errors i. e. write mail to administrator)

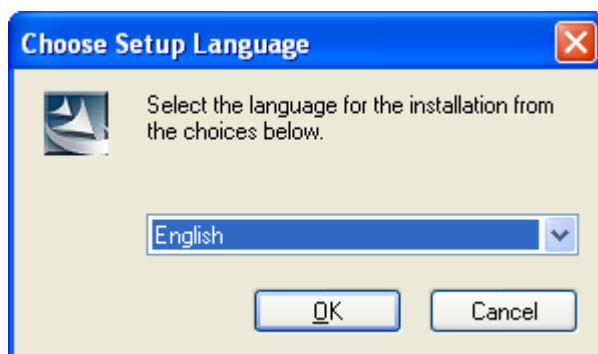
#### **3.2.1.4 Initialization files**

- SmartDX\_CallFunctions.ini
- SmartDX\_CallFunctions.exe.config (is needed when running in a mixed Microsoft® Framework environment (.Net Framework 1.1 and .Net Framework 2.0))
- GUIDaemon.exe.config
- SmartDX\_Zipping.ini
- SmartDX7.0\_CATIASettings.xml (Startup file to define CATIA settings)
- SmartDX8.3\_AdminTool.xml (Startup file to define SmartDX)

### 3.2.1.5 System files

- MSCMCDE.DLL
- MSCOMCTL.OCX
- MSFLXGRD.OCX
- msvbvm60.dll
- MSWINSCK.OCX
- msxml3.dll
- scrrun.dll
- stdole2.tlb
- VB6DE.DLL
- VB6STKIT.DLL

## 3.3 Installation on the client side

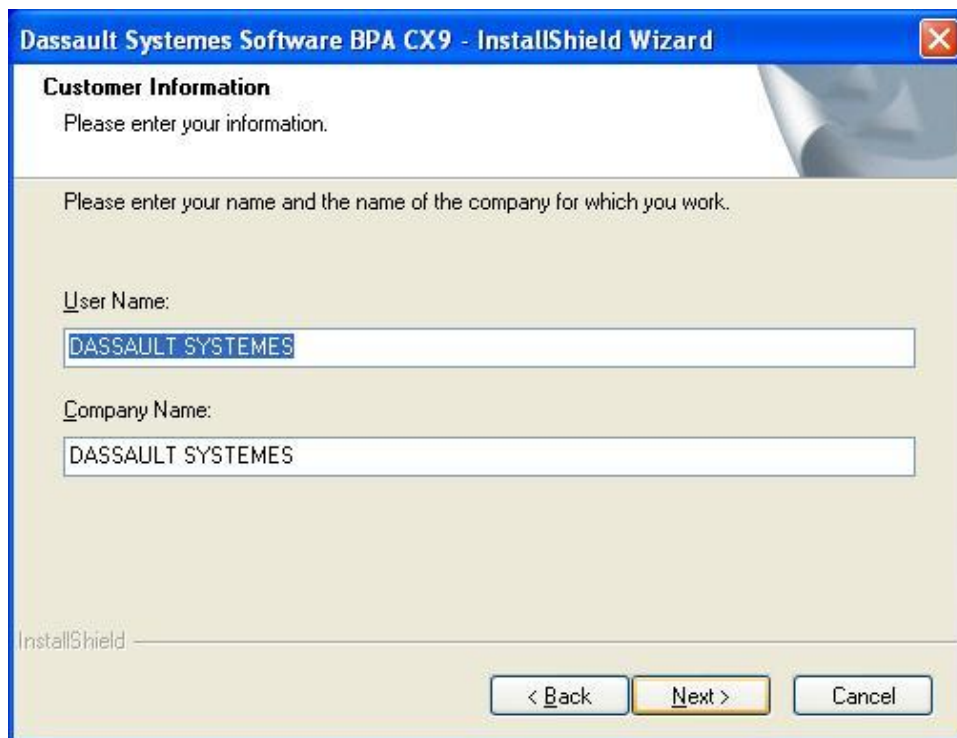




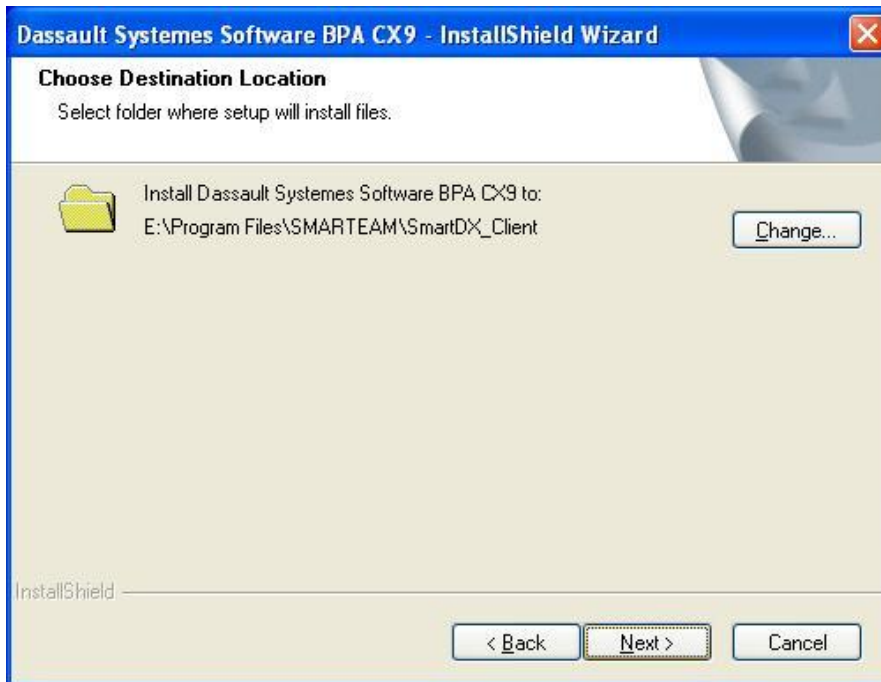
Choose the appropriate language for the installation procedure and click *OK*.



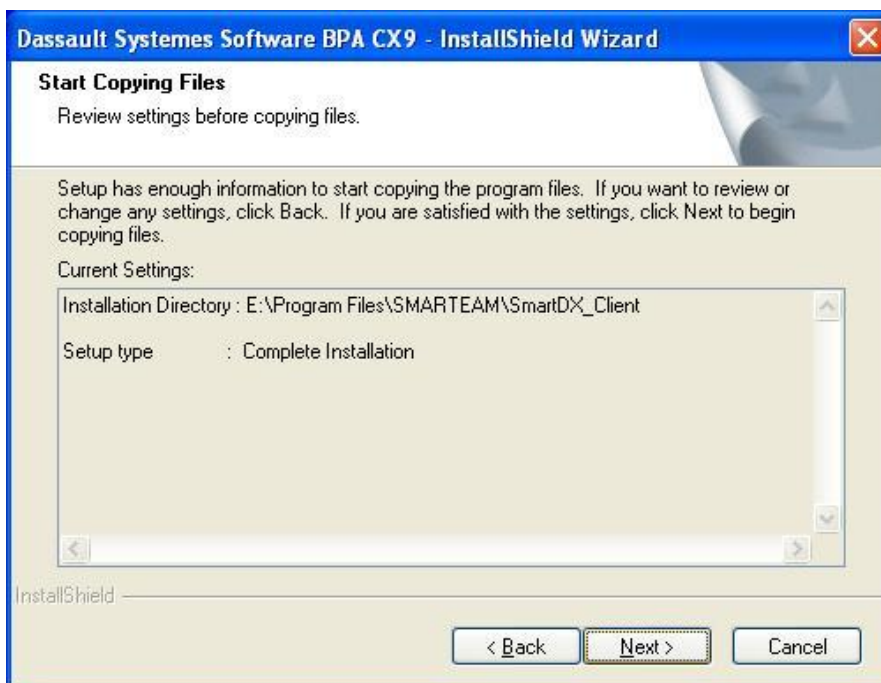
After preparing the installShield wizard the window above appears. Click *Next* to continue.



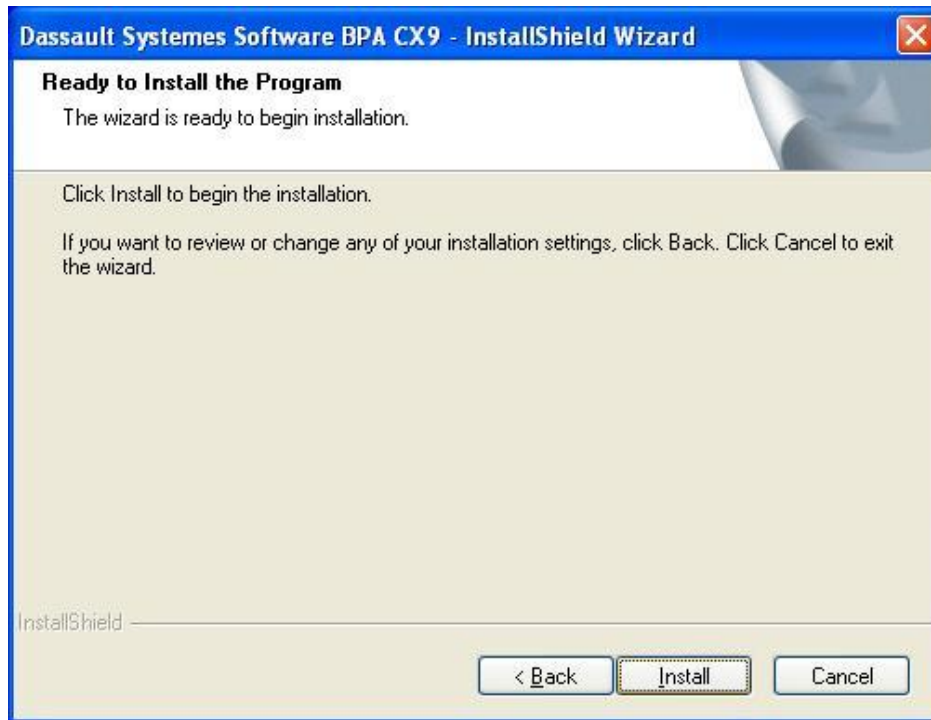
Enter your name and your company and then click *Next* to continue.



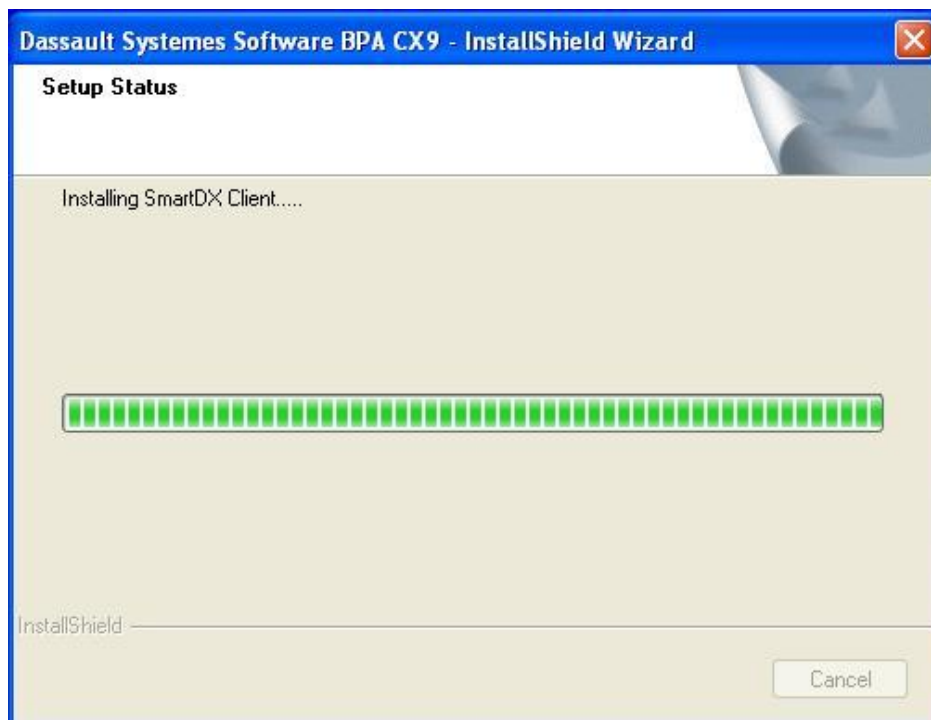
If you would prefer another destination folder click the *Change...* button in order to change the installation folder. Otherwise click *Next* to continue (this is recommended).



Click *Next* to continue



Click *Install* to continue.



The installation procedure also registers all required components.



In order to use SmartDX client you have to restart the computer. Click *Finish* to complete the setup.

### 3.3.1 Files of delivery on the client – side

#### 3.3.1.1 *Libraries (bin – folder)*

- SmartDX.dll (8.0.0.4)
  - Tracen.dll (1.0.0.0)
  - SmAdminTool.dll (1.2.0.0)
- AddValue\_Plugin.dll (1.6.0.0)

#### 3.3.1.2 *Scripts*

- SmartDX.ebs

#### 3.3.1.3 *Icons*

- AA\_SmartDX3.ICO (32x32)

- AA\_SmartDX3\_Struc.ico (32x32)
- AA\_SmartDX.ico (16x16)
- SmartDXServer\_Break\_1.ico
- SmartDXServer\_Error\_1.ico
- SmartDXServer\_Finished\_1.ico
- SmartDXServer\_InWork\_1.ico
- SmartDXServer\_NotStartet\_1.ico

#### **3.3.1.4    *Language files***

- caption.SmDX\_de
- caption.SmDX\_en
- Error.SmDX\_de
- Error.SmDX\_en
- protocol.SmDX\_de
- protocol.SmDX\_en

#### **3.3.1.5    *Initialization files***

- SmAdminTool.ini
- SmartDX.ini

#### **3.3.1.6    *Executable files***

- SmartDX Viewer.exe (7.0.0)

- SmartDXServMon.exe (8.0.0.0)

## 4 Update SmartDX

You can update SmartDX on the client side and on the server side with a newer version using the delivered installation routines.

Please bear in mind that the update installation routine will overwrite all files. This applies also to the initialization files (i. e. SmartDX\_CallFunctions.ini). In case you did some customizations to those files save them before updating SmartDX.

Afterwards you can exchange the initialization files or compare the difference.

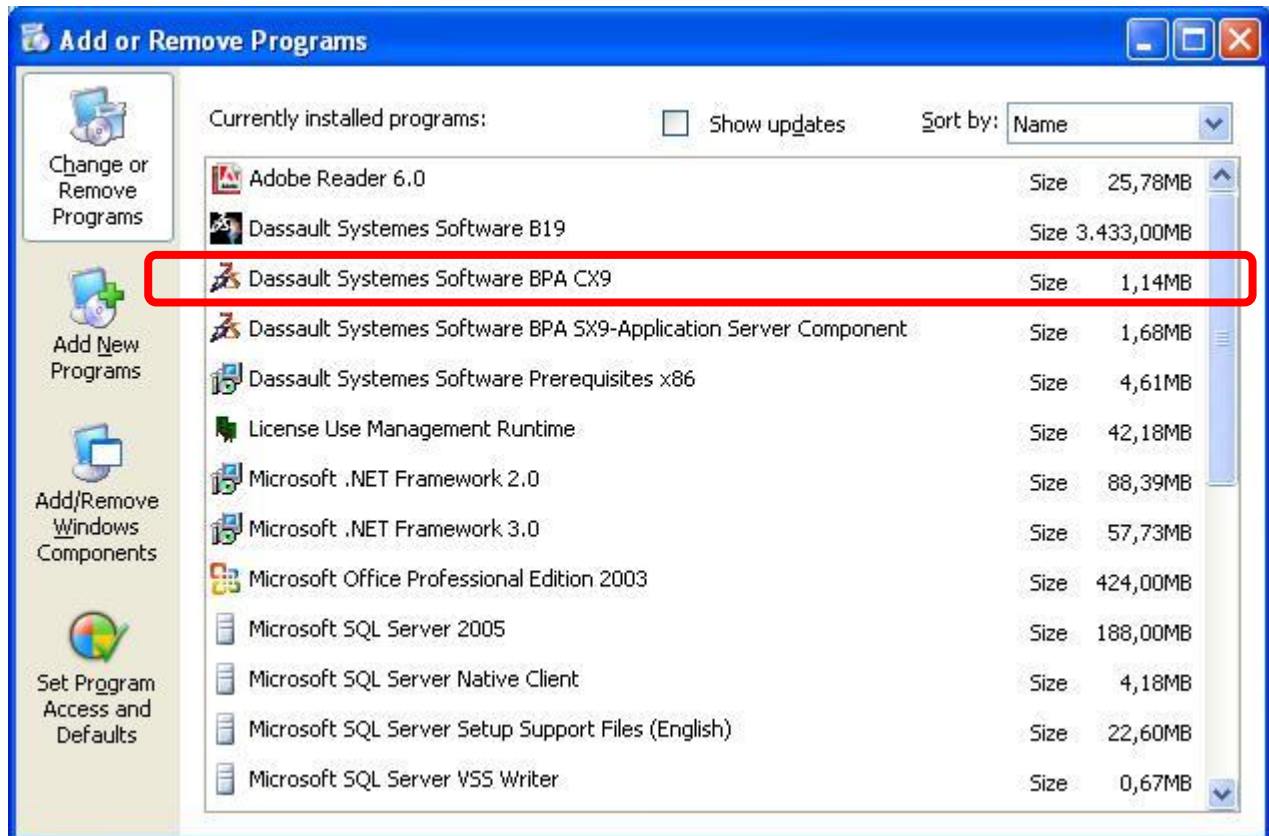
## 5 Uninstallation

To uninstall SmartDX please use the *Add or remove Software* capability of Microsoft.

You will find it for example on 'start → Settings → Control panel → Add or remove Software. Use the button *change or remove programs* on the panel.

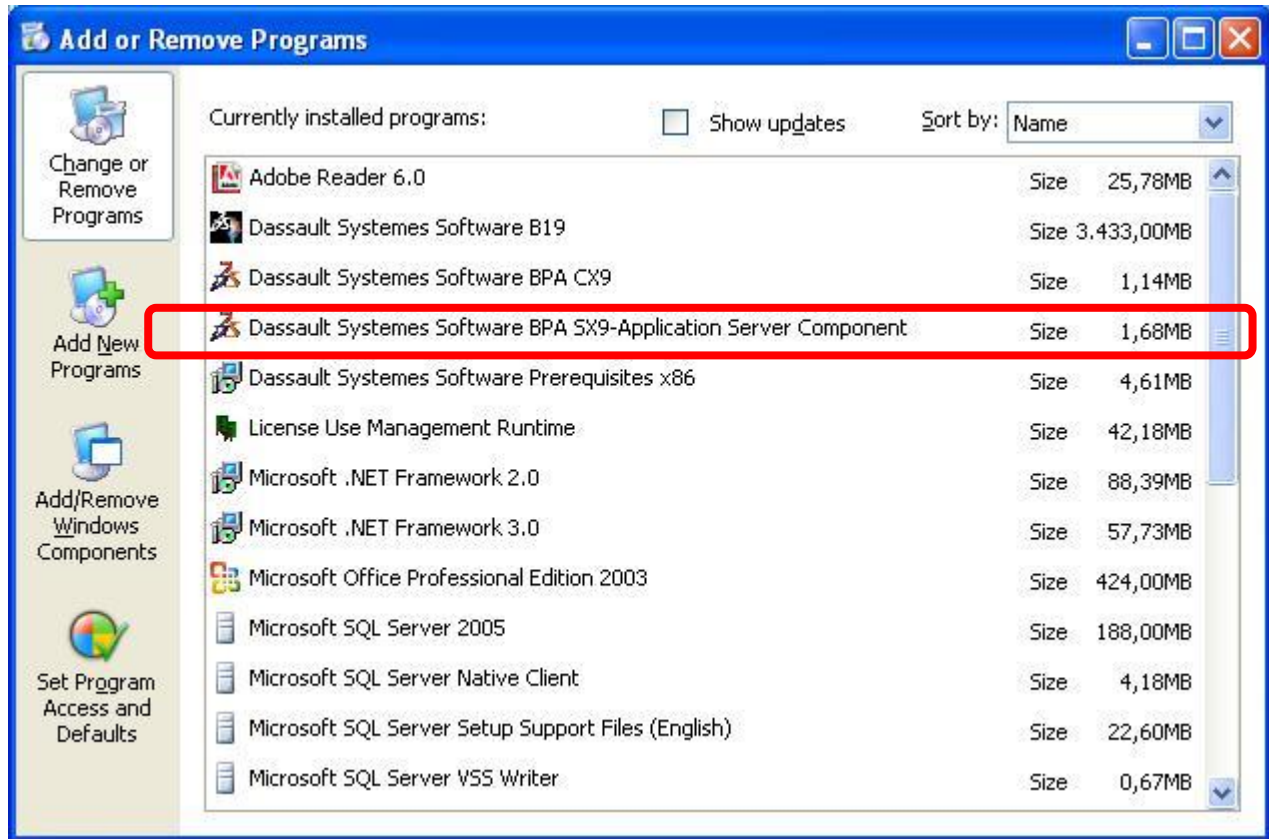
In the list on the right side use the following entries to uninstall SmartDX.

### 5.1 Uninstallation of SmartDX client side





## 5.2 Uninstallation of SmartDX Server side



## 6 Installing LUM licensing

### 6.1 License Management

#### Information

##### Software Requirements

- The license server should have IBM LUM 4.6.8.3 installed

SmartDX V5.8 or higher requires a license.

To ask a license, the following information must be provided:

- Product Name: This is the BPA trigram.
- License Type: Nodelock or concurrent.
- Number of License: 1 for Nodelock , >0 for Concurrent
- LUM targetID: Provide the target id (run i4target in a DOS window)
  - On Client side for Nodelock
  - On Server side for Concurrent

On receiving the license:

- For Nodelock type of license
  - Modify/ Create Nodelock file by inserting necessary information (VendorID, ProductPassword ) - See Appendix A
- For Concurrent type of license
  - Enroll the license on the LUM server - See Appendix B

### 6.2 Creating a Nodelock file

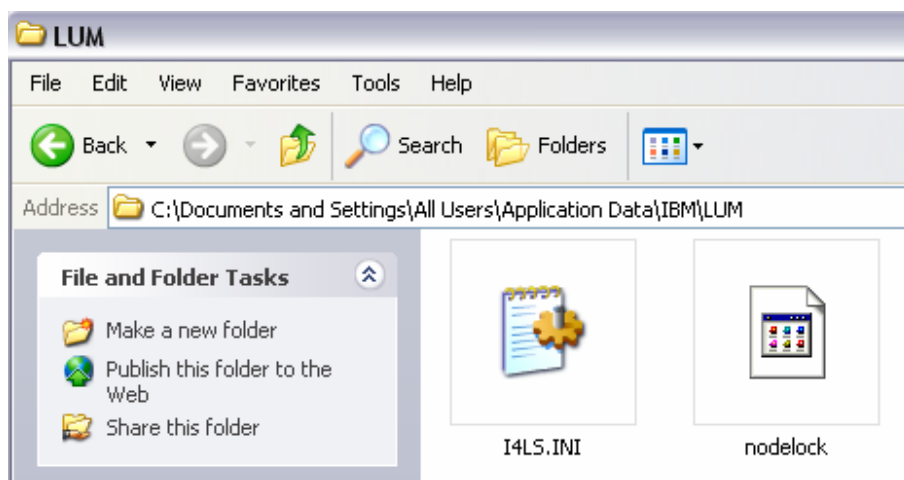
Nodelock file : how to proceed

You should input yourself the parameters of your License into the nodelock file (create it if doesn't exist)

- This file is located in
  - For Windows XP 32 and 64 OS - C:\Documents and Settings\All Users\Application Data\IBM\LUM\nodelock
  - For Windows 7 64 bit OS - C:\ProgramData\IBM\LUM for WIN7
  - You should extract from the .lic file the following informations :
  - VendorID (looks like an UUID)

- ProductPassword (a crypted key)
  - ProductAnnotation (should be unset)
  - ProductVersion (should be set to 1)
- And insert them in nodelock file by respecting the order
  - # comment : put your BPA trigram and its range date
  - vendorID ProductPassword ProductAnnotation ProductVersion

Example:



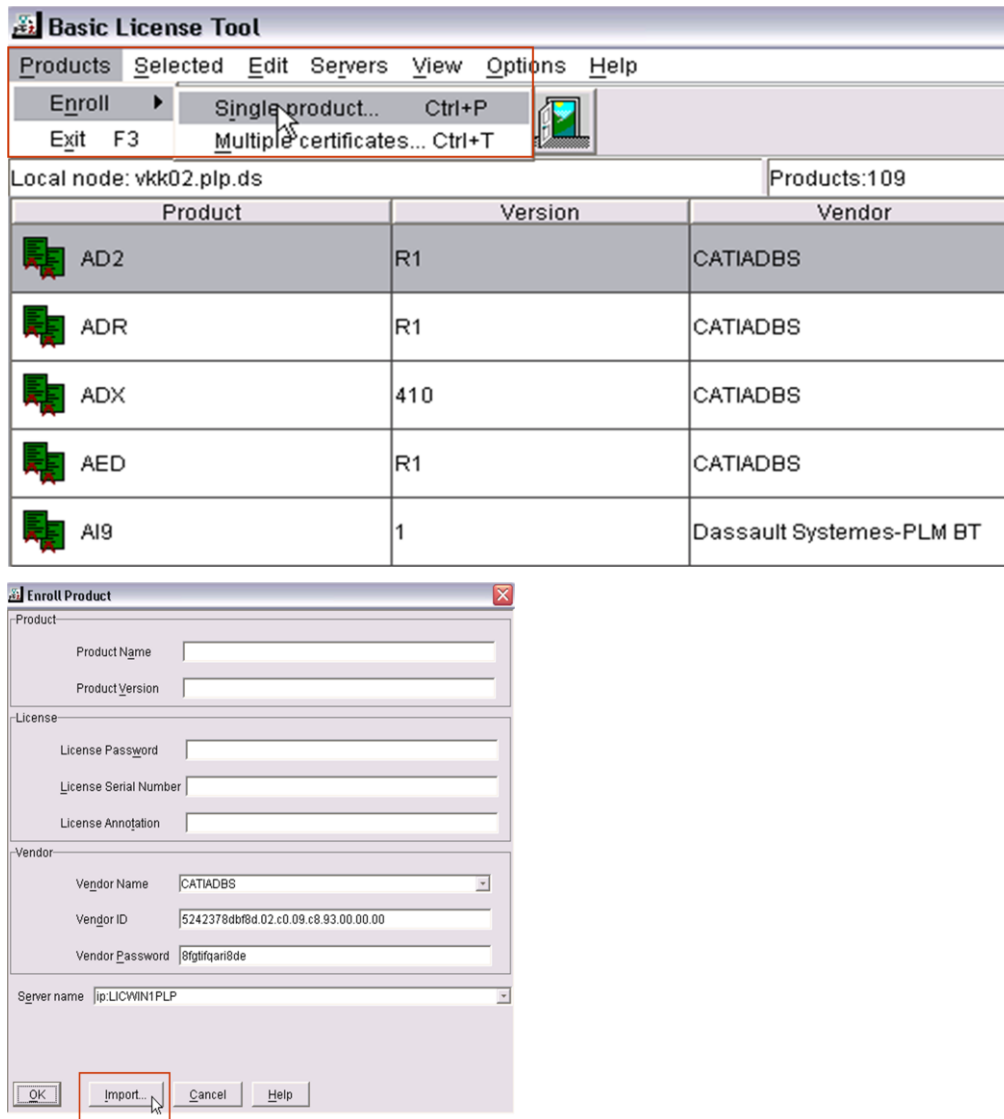
*# CP9 from 15-Jul-08 to 14-Jul-09*

*c6c8ef44bcb7.4a.74.95.13.1f.00.00.00 r8ezikjzgsvk9fzf7fe3p2gn3eaa "" "1"*

## 6.3 Enrolling concurrent license

Go to: Start > All Programs> License Use Runtime > Basic License Tool

- Select Product / Enroll/ ....
  - Choose Single or Multiple depending on whether you want to be enrolling a single or multiple licenses at a time.
- Click on Import button



- Locate the Concurrent file received in the file browser and select OK in both the panels to have the License successfully enrolled

