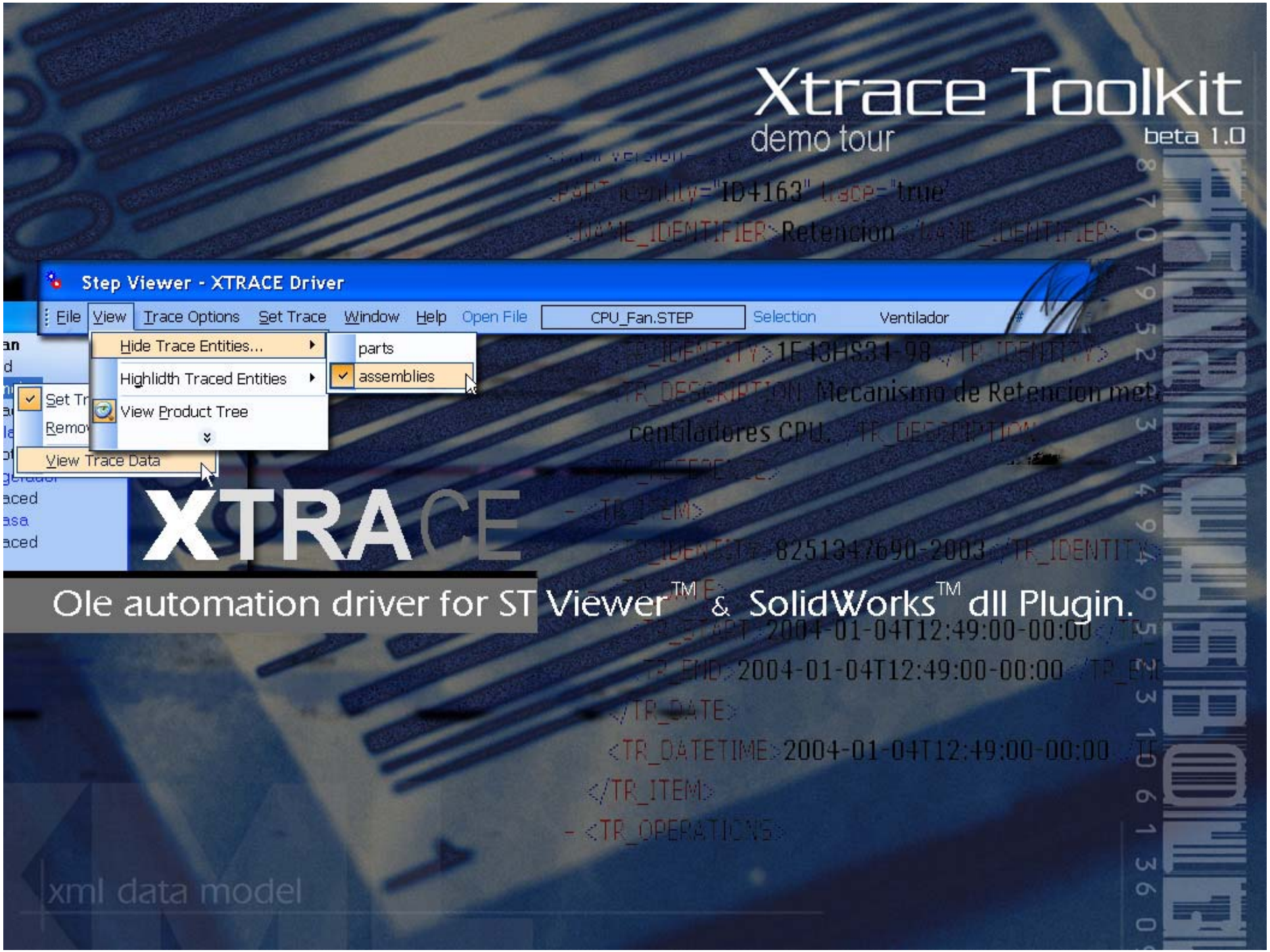
Xtrace Toolkit
demo tour
beta 1.0
Step Viewer - XTRACE Driver
File
View
Trace Options
Set Trace
Window
Help
Open File
CPU_Fan.STEP
Selection
Ventilador
Hide Trace Entities...
Highlidth Traced Entities
View Product Tree
View Trace Data
parts
assemblies
XTRACE
Ole automation driver for ST Viewer™ & SolidWorks™ dll Plugin.
xml data model

Xtrace Toolkit
beta 1.0

- **Presentation Context.**

1. Trazability:
   Trazability along the whole Product Life Cycle.
2. “Trazability & e-Manufacturing” Project.
   Overview & Tools.
   Tools: Main Features.
      1. CAD Entities Trace Configuration.
      2. Traced Data Display.
3. Future development.
4. Download samples.

xml data model

Trazability Today

Trace Database are unconnected Data Islands.

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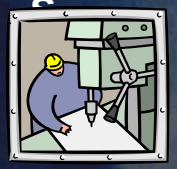
Providers

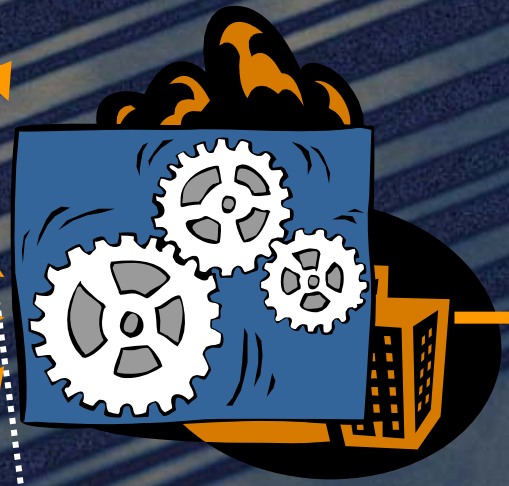
Raw Materials

Employee

Trace Database



Operations & Machines



Trazability Tendencies

Trace Data Along Whole Product Life Cycle

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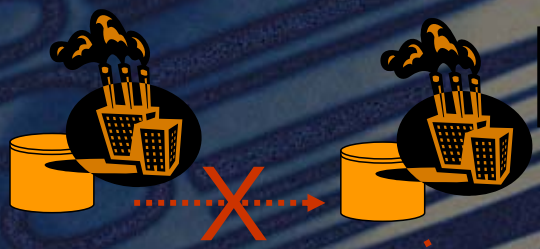
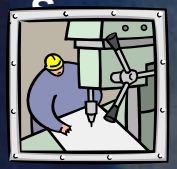


Providers

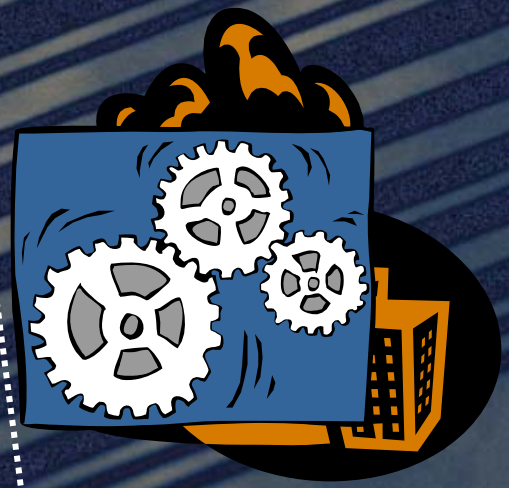
Raw Materials

Employee

Trace Database



Operations & Machines



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Trazability Along Whole Product Cycle Life

1. Making the trazability configuration (what to trace), while making CAD designs.
2. Transfer the trazability configuration (along with CAD models) to manufacturers.
3. TRACE. generate trace data (while manufacturing)
4. Transfer new trace data back to designers.
5. Handling incoming trace data: store, view, audit…

xml data model

Xtrace Toolkit

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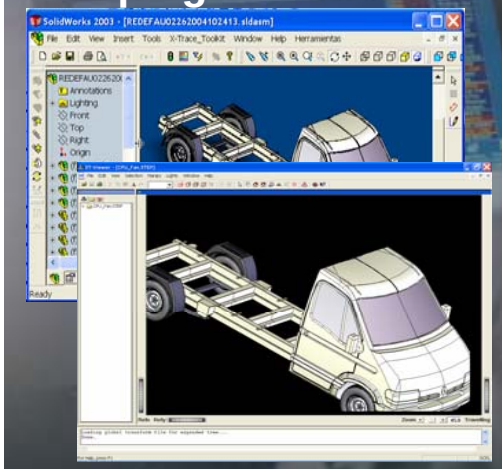
1. Configuration While Design

SW plugin



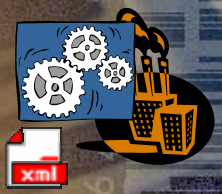
ST Viewer Driver

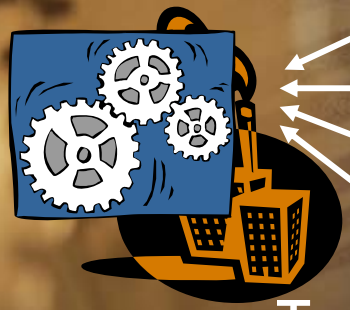
Propietary format

Trazability cfg.

STEP format

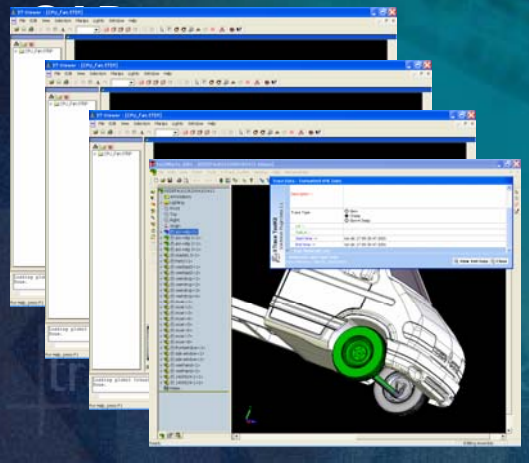
2. Manufacturing

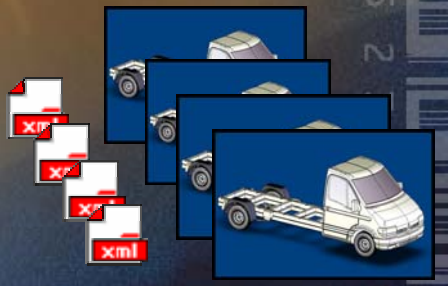




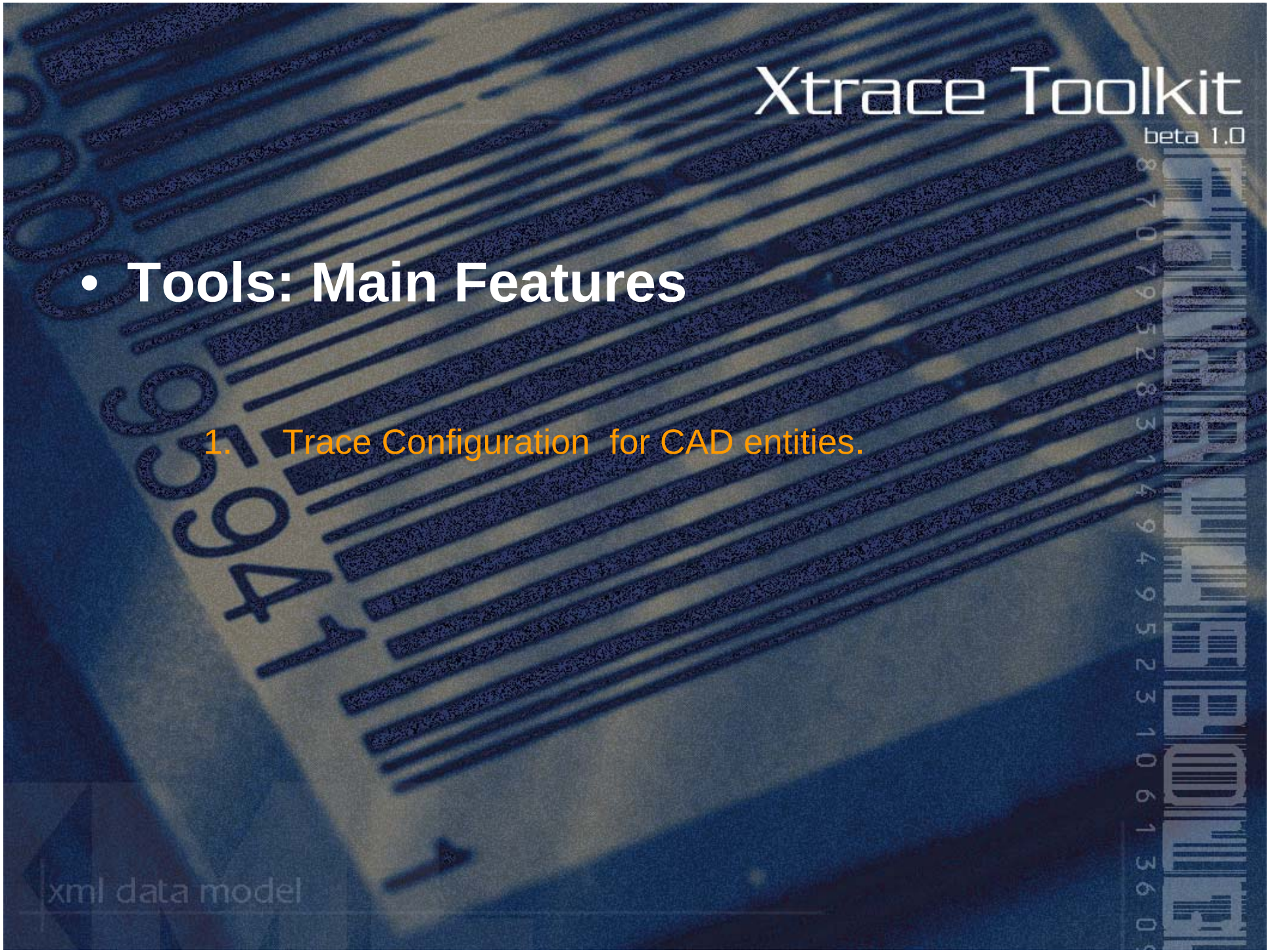
Trace Database

3. Trace Data Visualization on





Trace



- **Tools: Main Features**

1. Trace Configuration for CAD entities.

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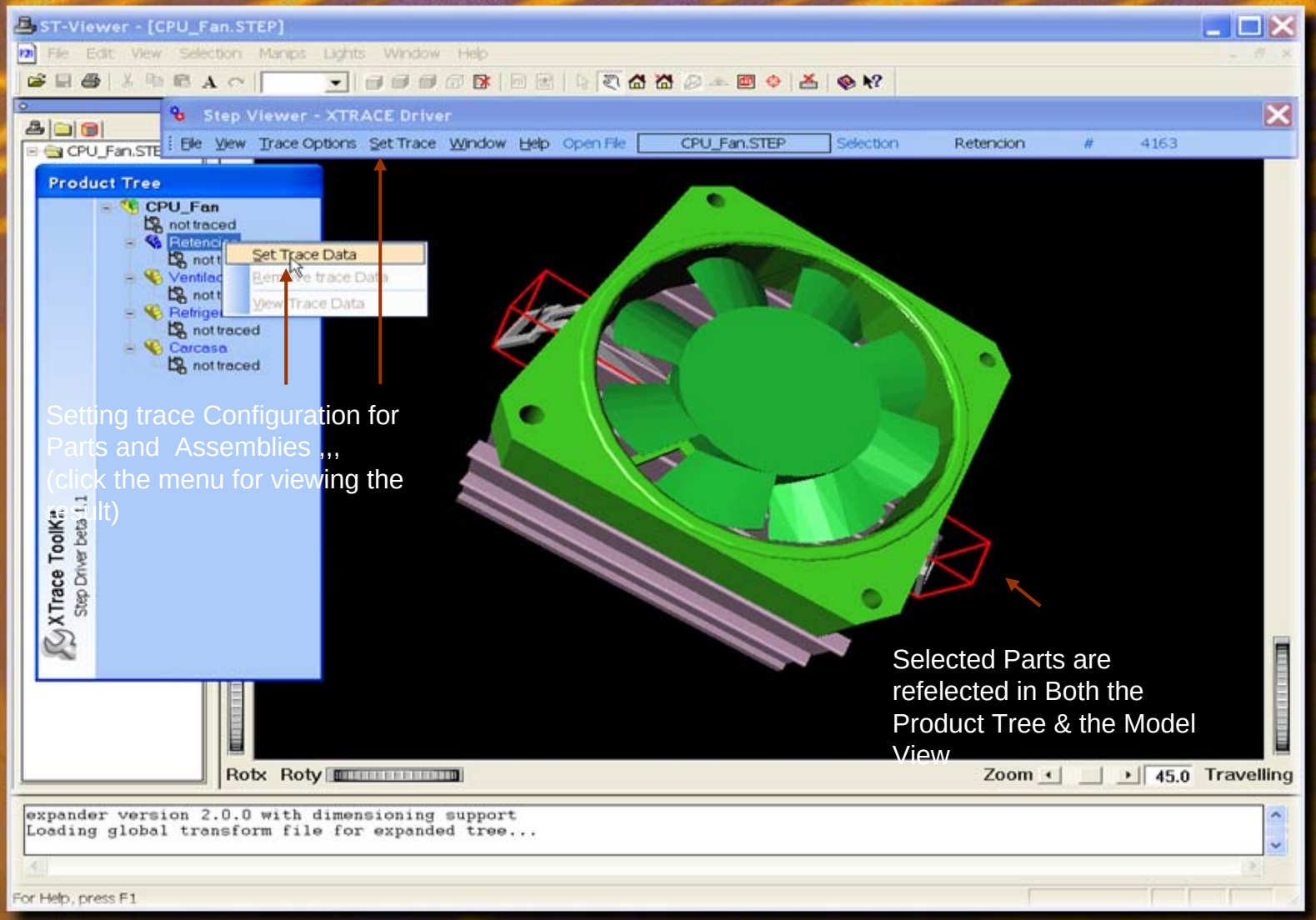
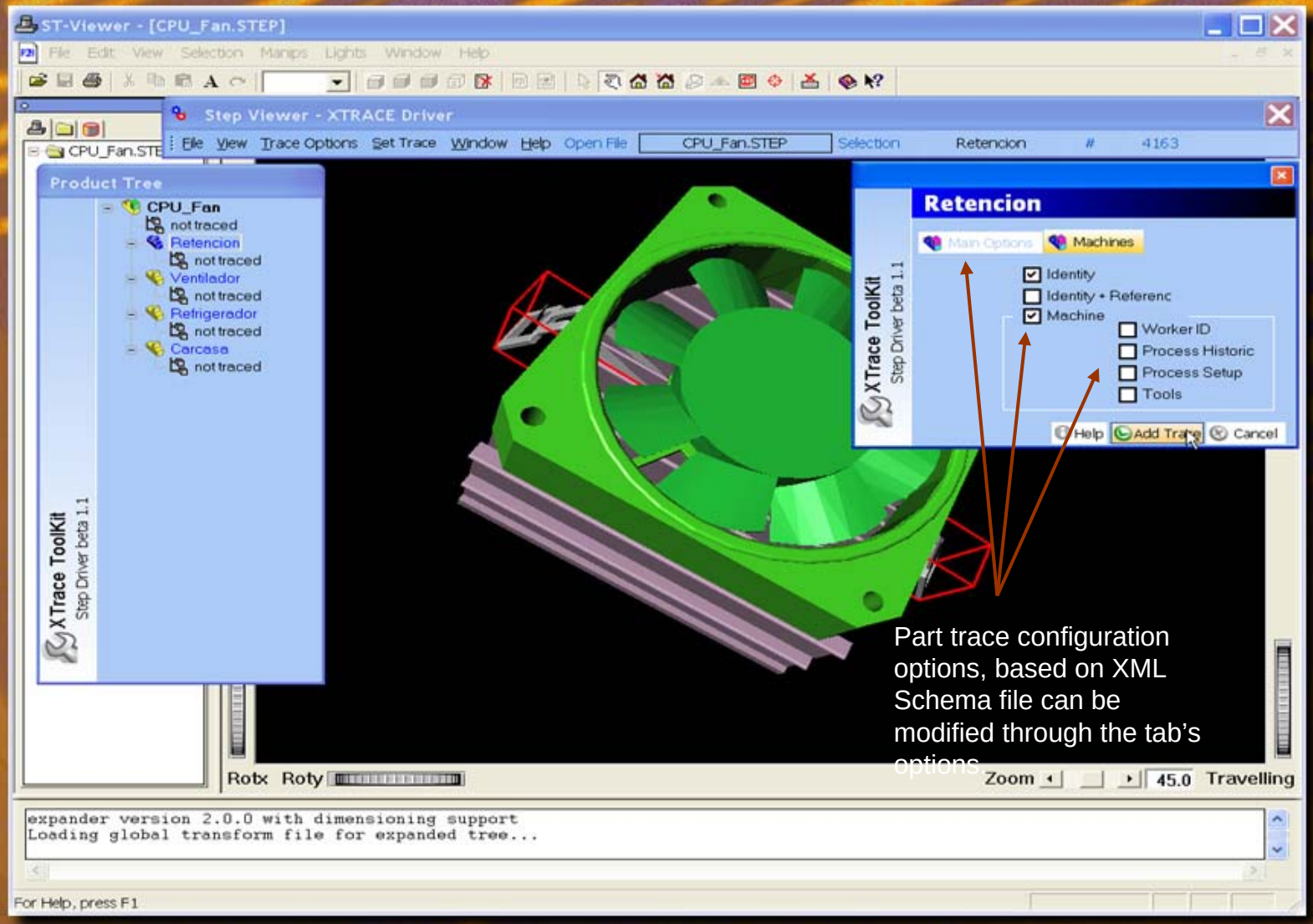


SteepTools OLE automation driver

Xtrace Toolkit

beta 1.0



Part trace configuration options, based on XML Schema file can be modified through the tab's options.

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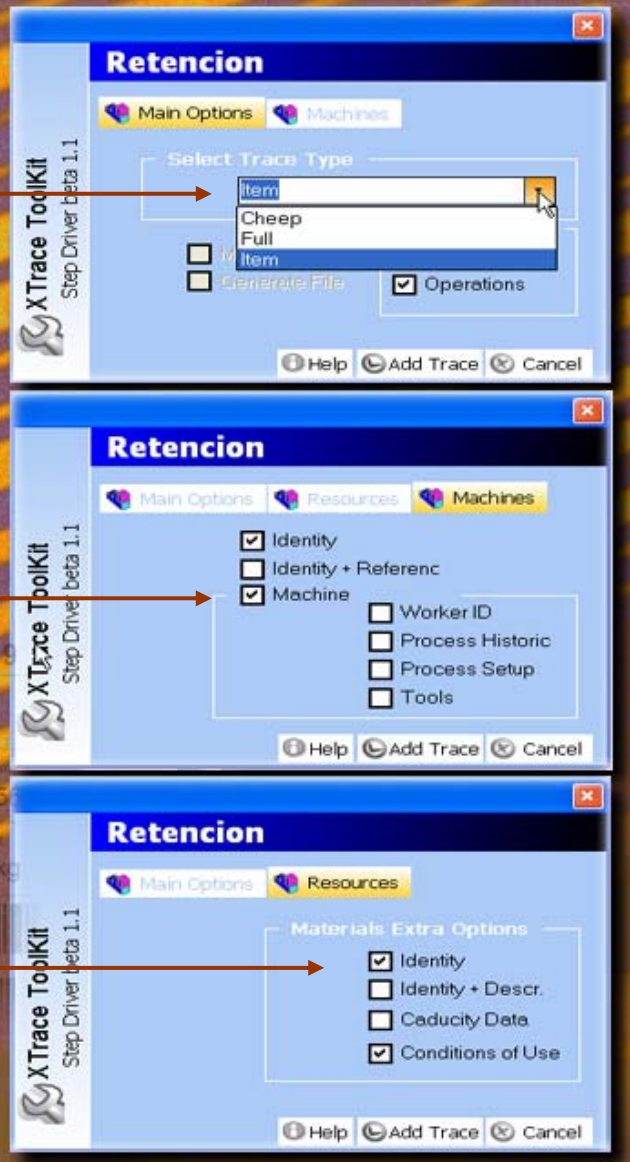
The Manufacturer must retun specific Item or Cheep Trace Data Info, requiring different barcode formats.

Specific Machine Information must be included by the manufacturer, - tools, process historic, process setup .. – integrating this Information into barcode fields.

Raw Material Data Information must be included by the manufacturer, again this information is refeclected on barcode - references, caducity dates, conditions of use -



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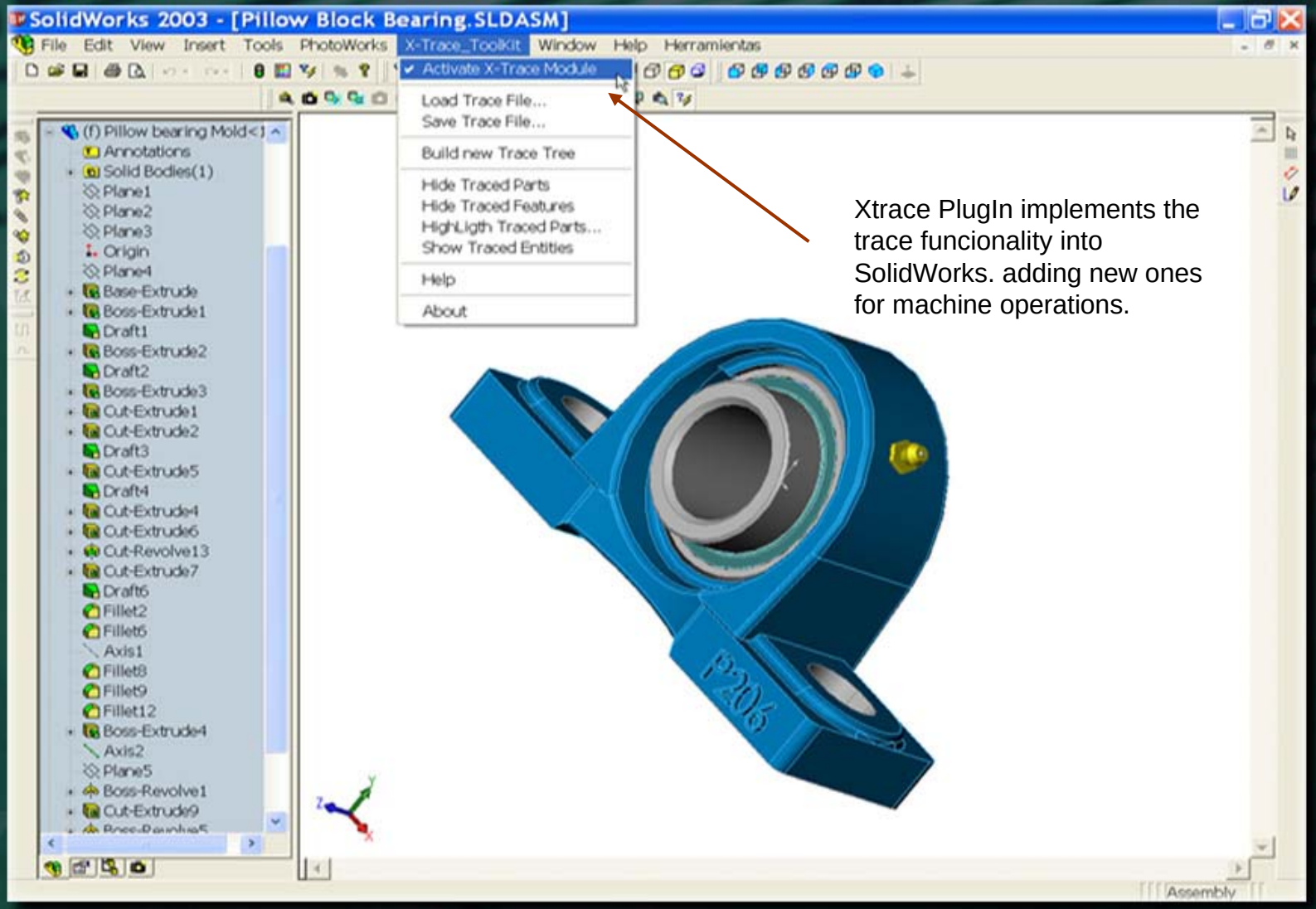
Xtrace Toolkit

beta 1.0



Xtrace PlugIn implements the trace funcionality into SolidWorks. adding new ones for machine operations.

CAD Examples :: SolidWorks dll plugin

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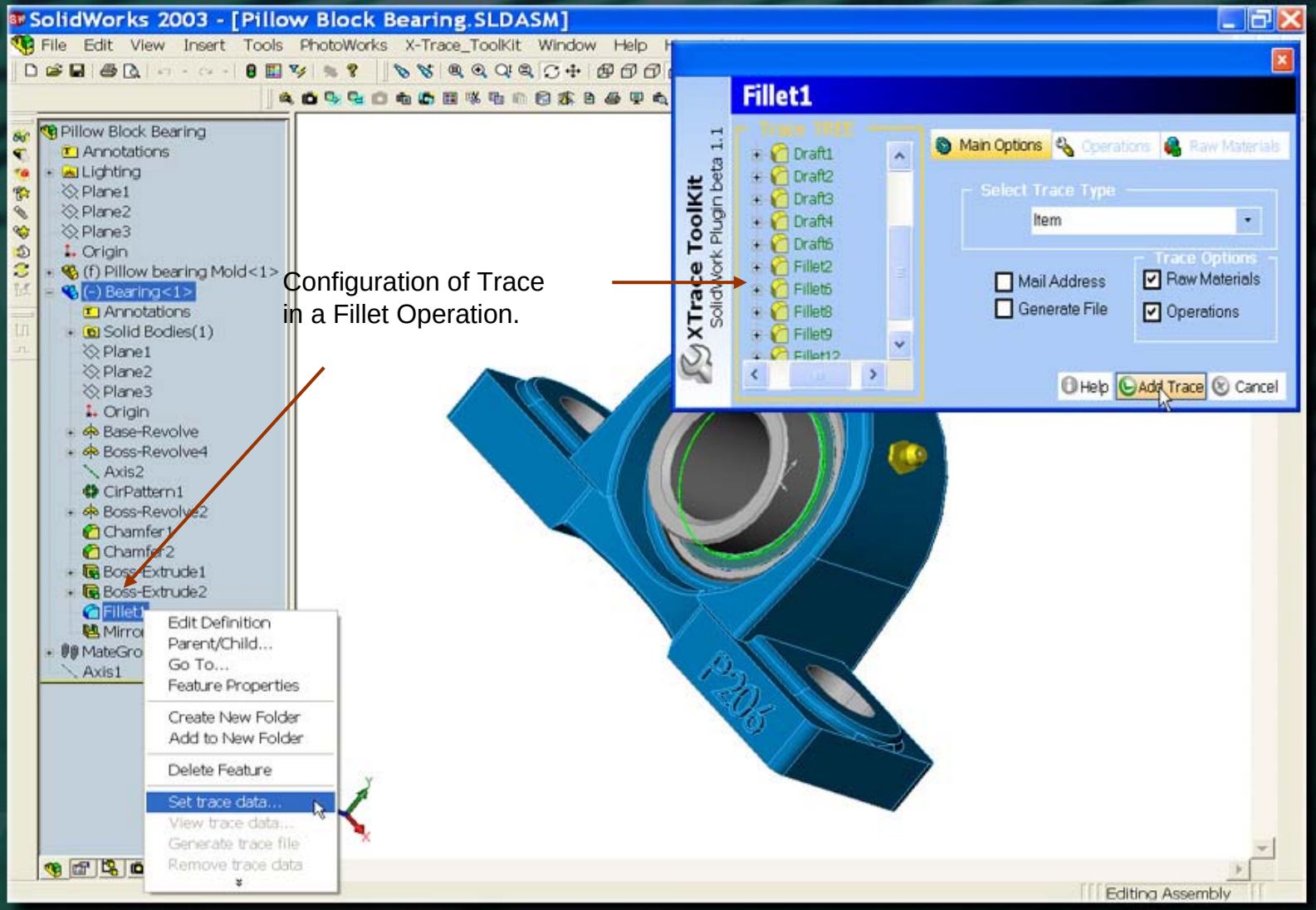


Configuration of Trace in a Fillet Operation.

CAD Examples :: SolidWorks dll plugin

Xtrace Toolkit
beta 1.0

- **Tools: Main Features**

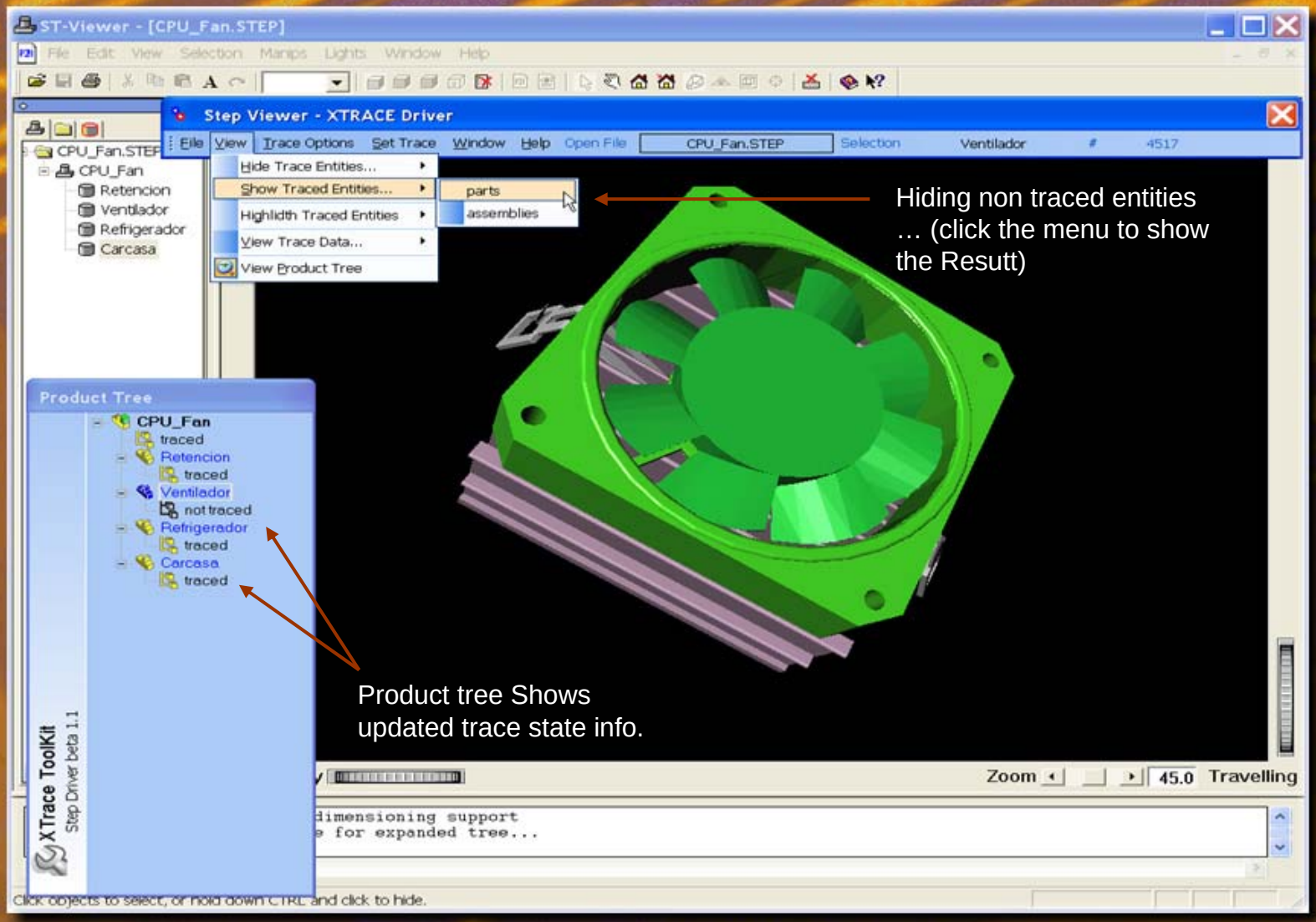
1. Trace Configuration for CAD entities.

2. Hide/Show CAD Entities depending on trace configuration state.

xml data model

Xtrace Toolkit

beta 1.0



Hiding non traced entities … (click the menu to show the Resutt)

Product tree Shows updated trace state info.

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Xtrace Toolkit

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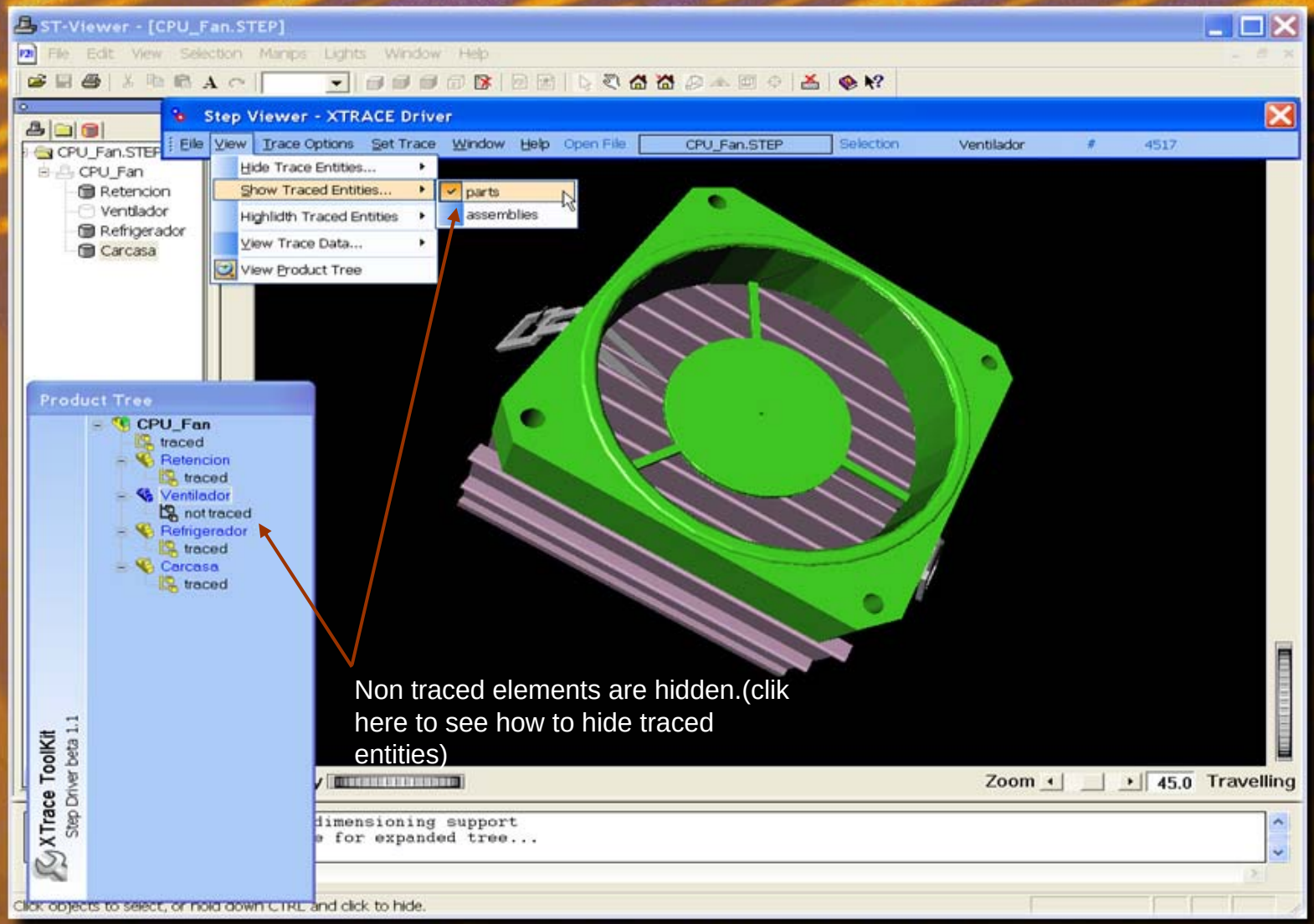

Non traced elements are hidden.(clik here to see how to hide traced entities)

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Xtrace Toolkit

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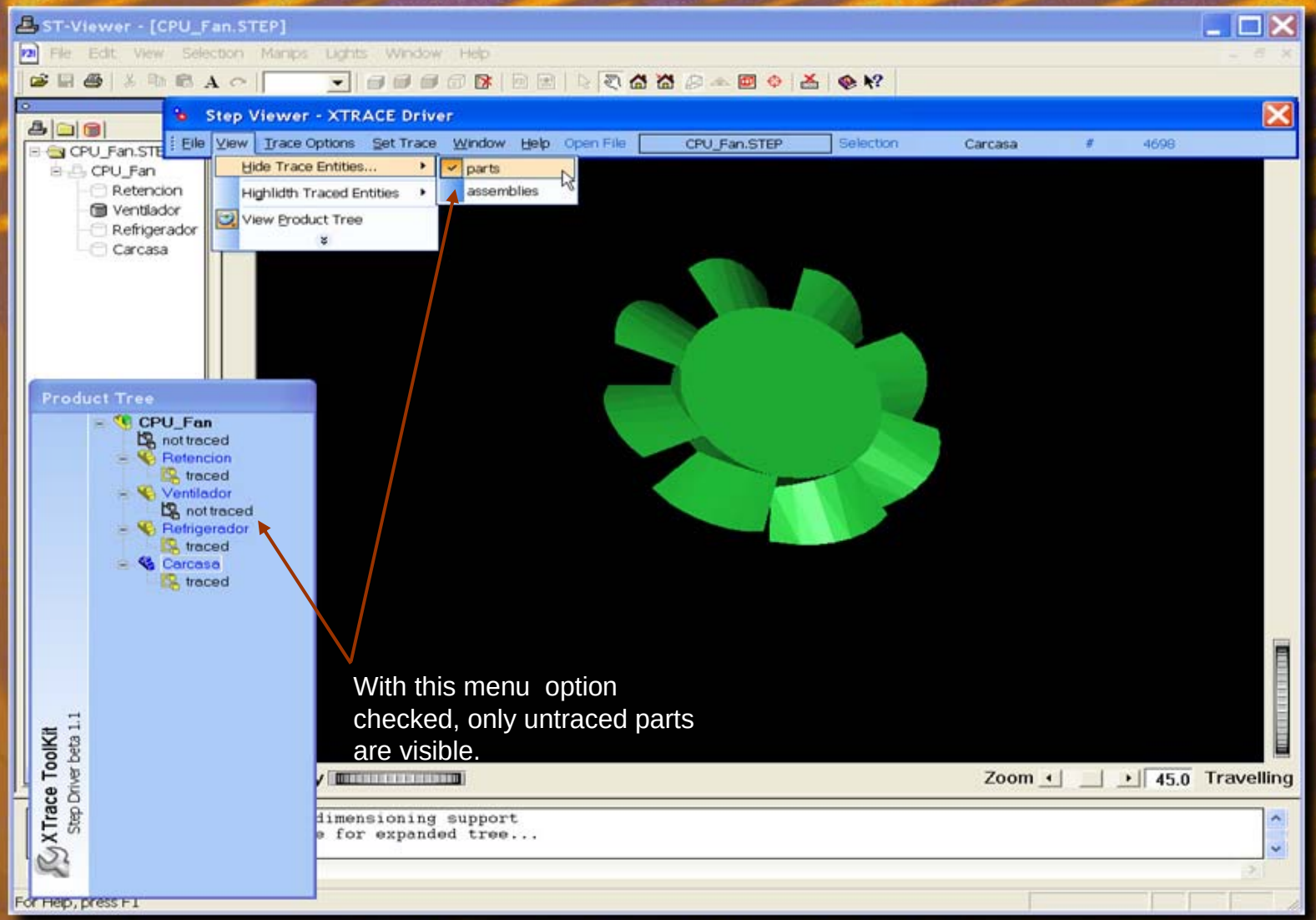

With this menu option checked, only untraced parts are visible.

SteepTools OLE automation driver

Xtrace Toolkit
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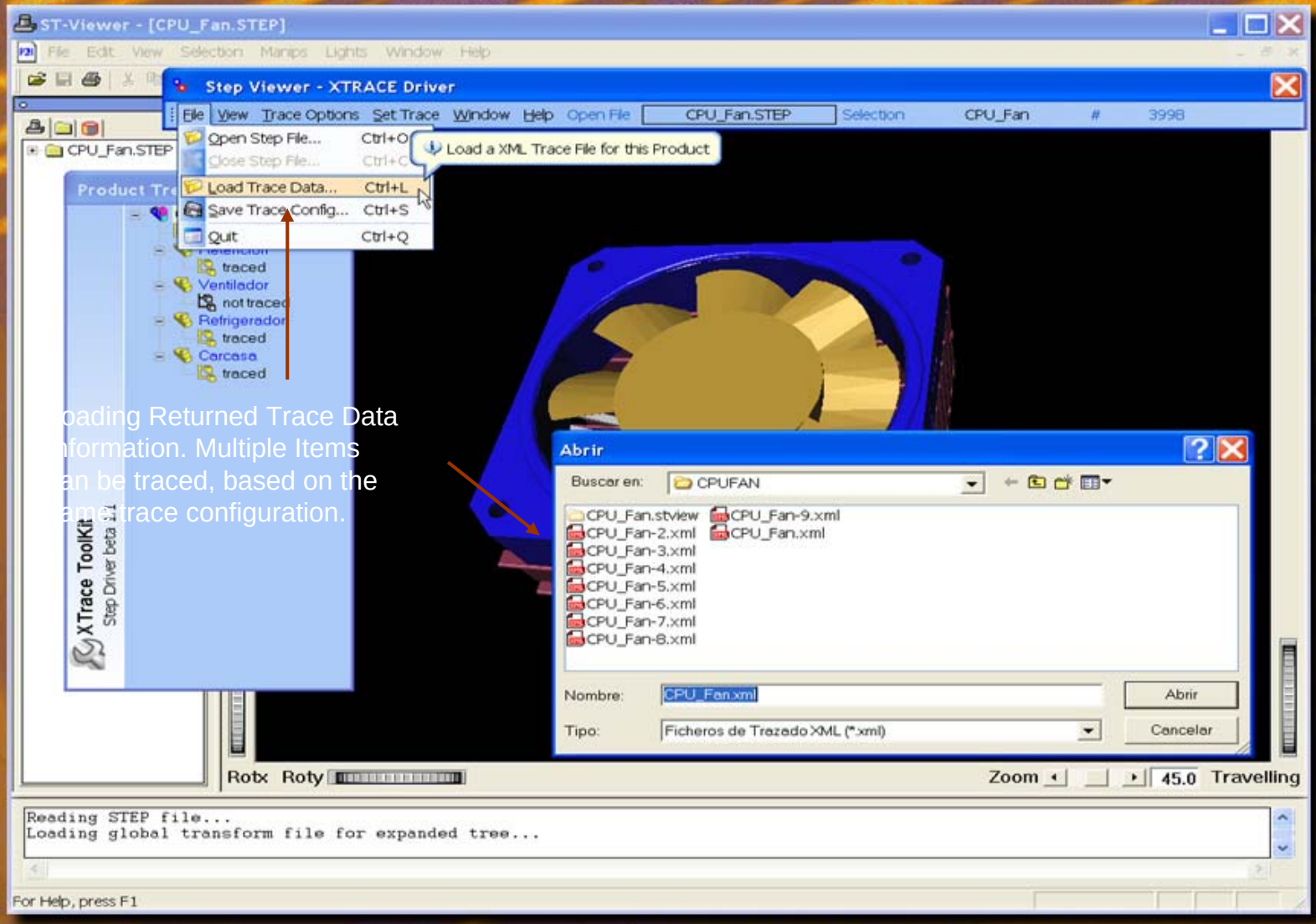
- **Tools: Main Features**

1. Trace Configuration for CAD entities.
2. Hide/Show CAD Entities depending on trace configuration state.
3. Display Traced Data.

xml data model

Xtrace Toolkit

beta 1.0



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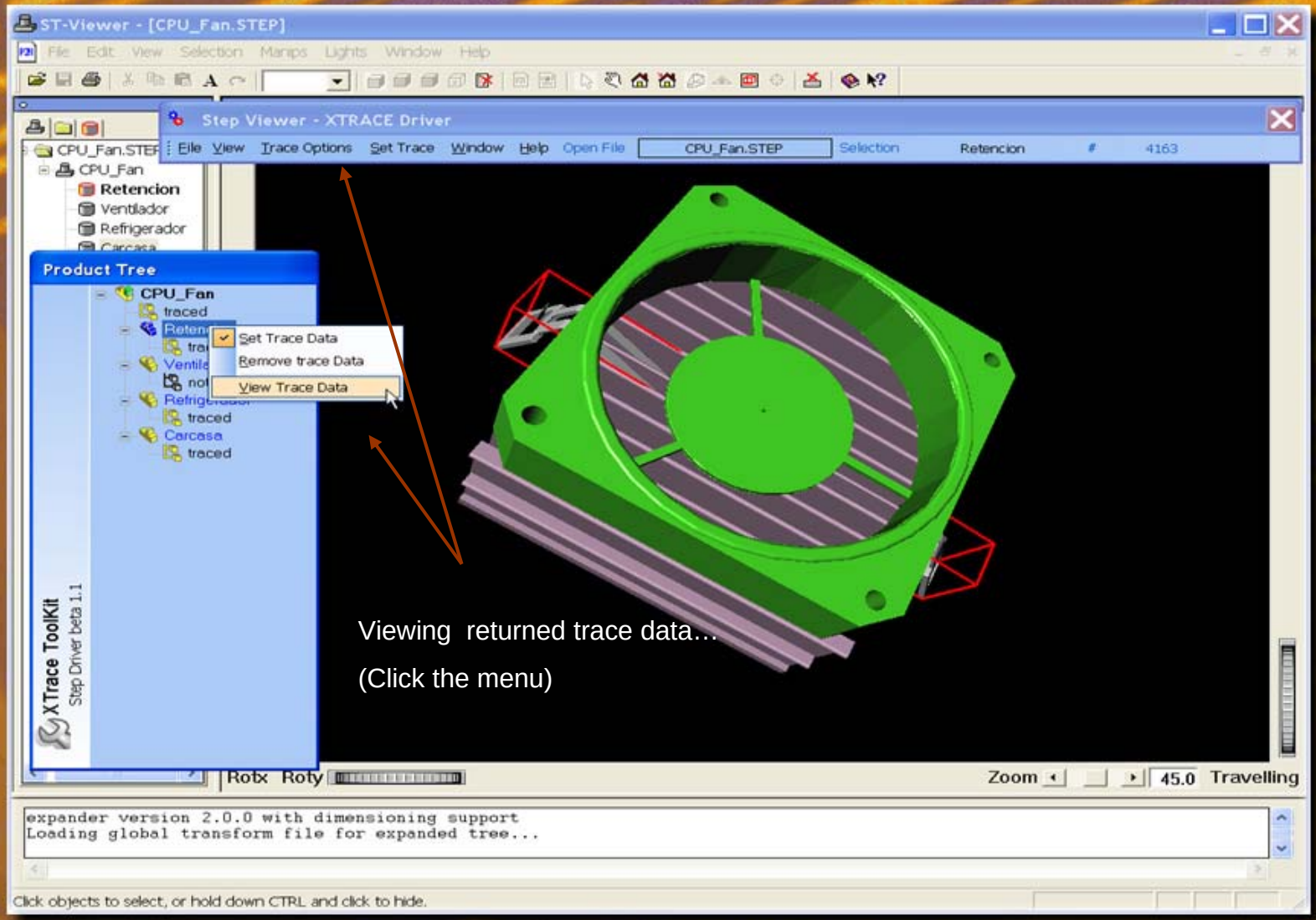
Xtrace Toolkit

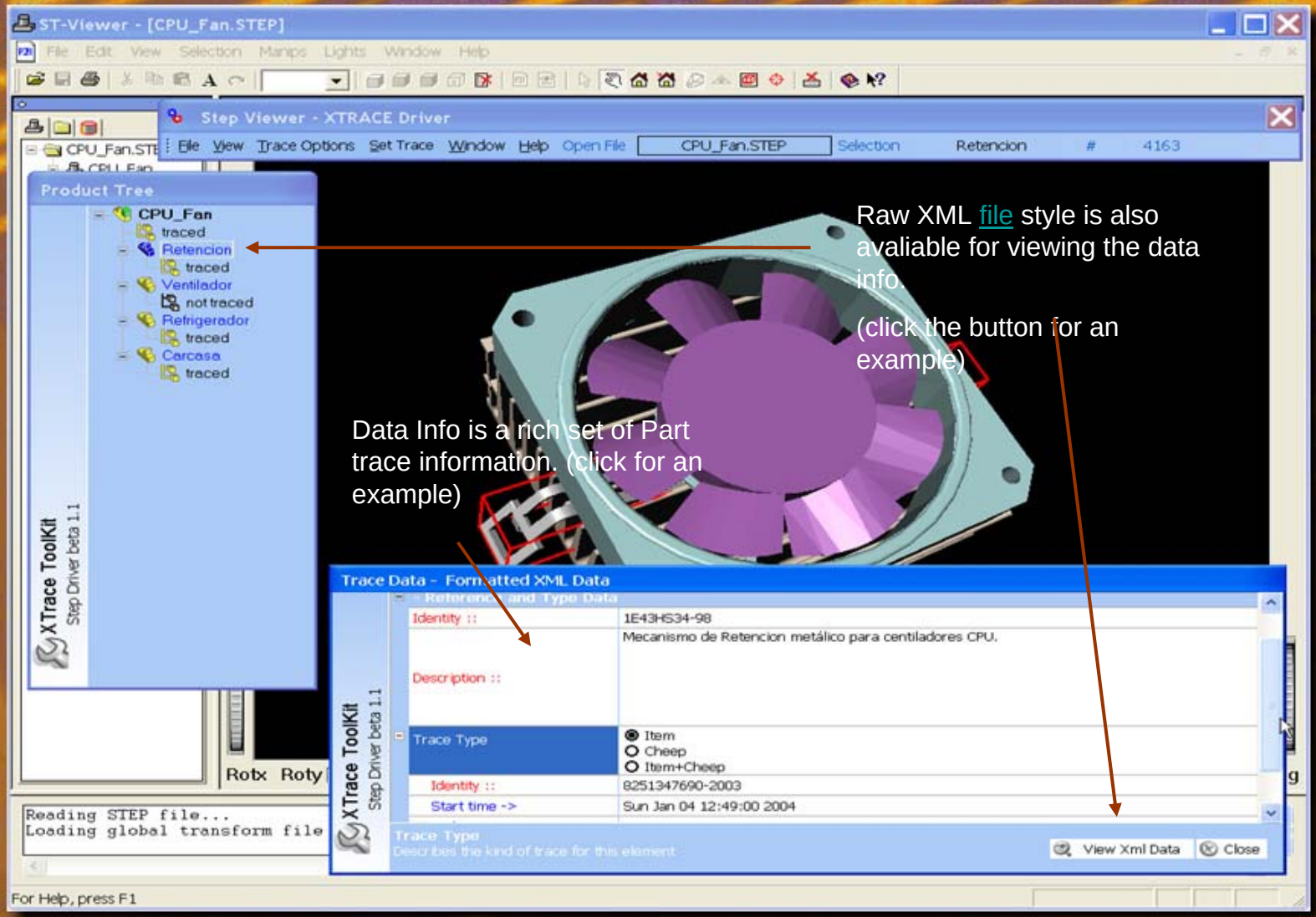
beta 1.0



SteepTools OLE automation driver

Xtrace Toolkit

beta 1.0



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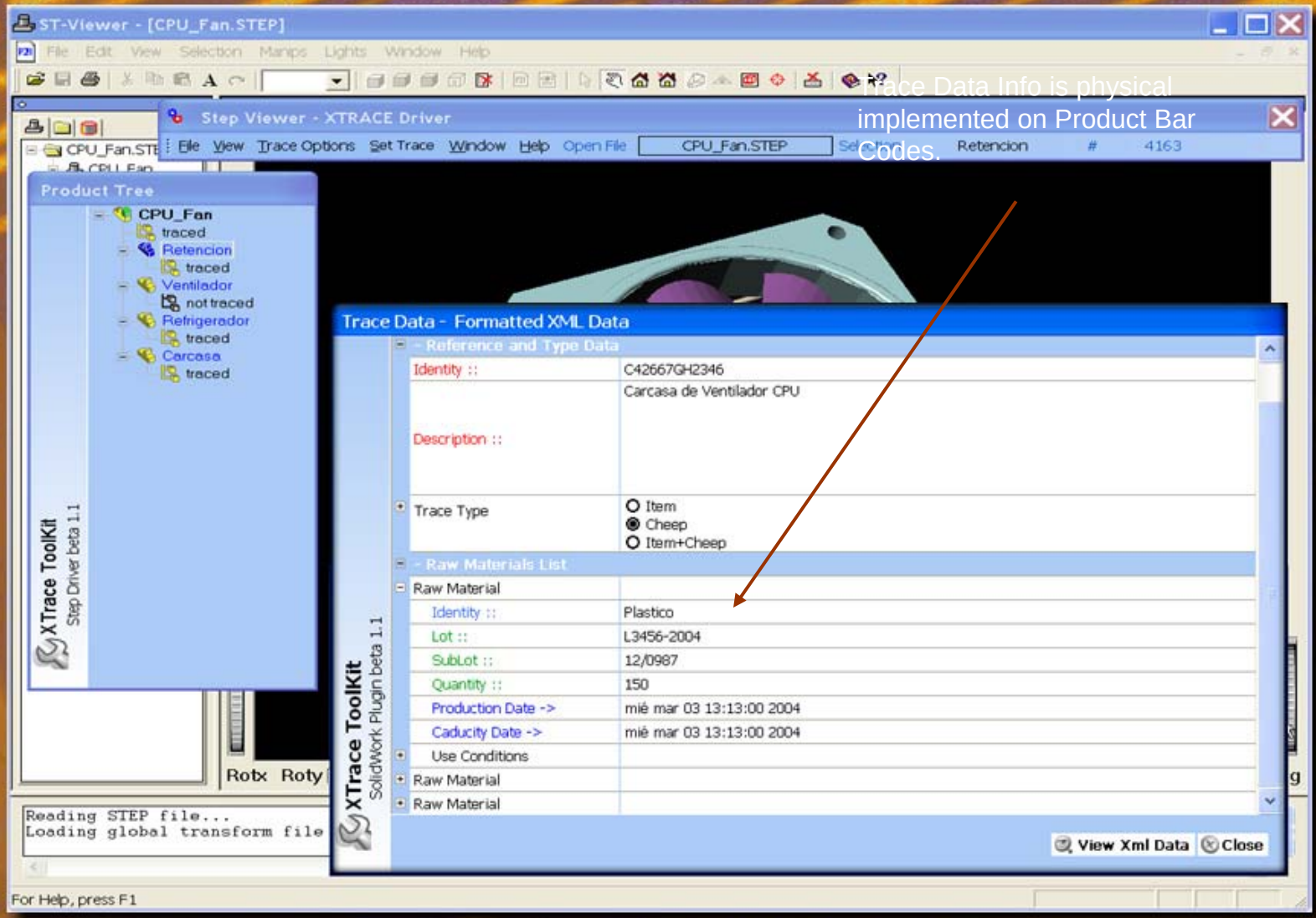
Xtrace Toolkit

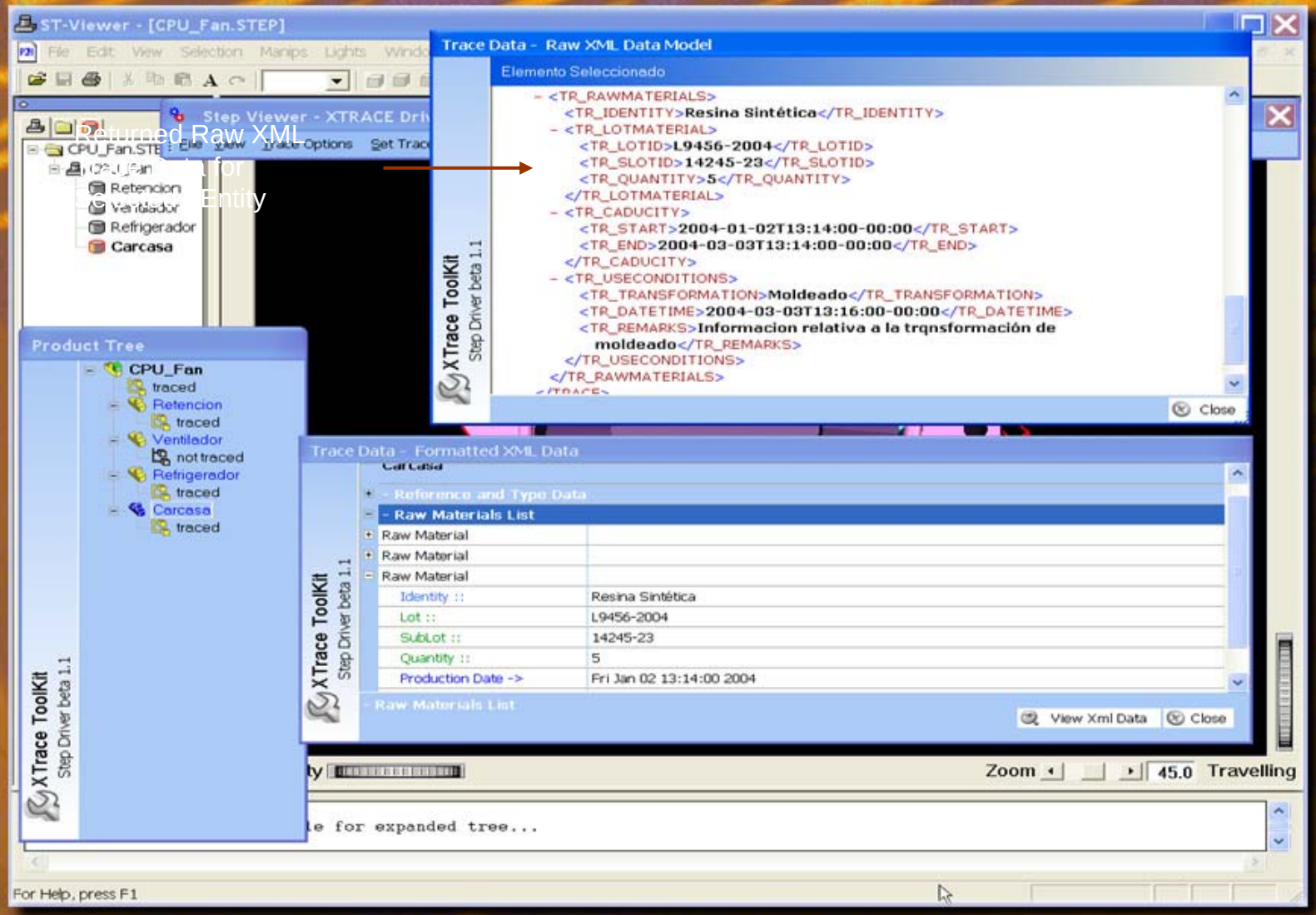
beta 1.0



SteepTools OLE automation driver

Xtrace Toolkit

beta 1.0



SteepTools OLE automation driver

- **Future Development ?**

1. Trace Configuration for machine Operations (Integration with AP 238)
2. Trazability information model in STEP?