

EnSight 9.1

New features and capabilities including volume rendering

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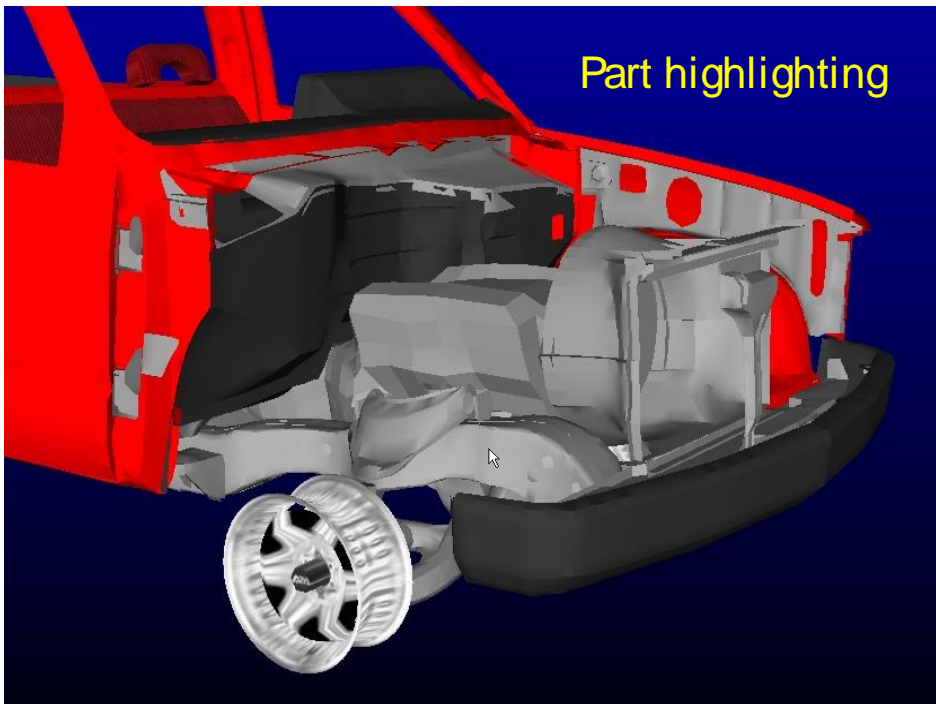
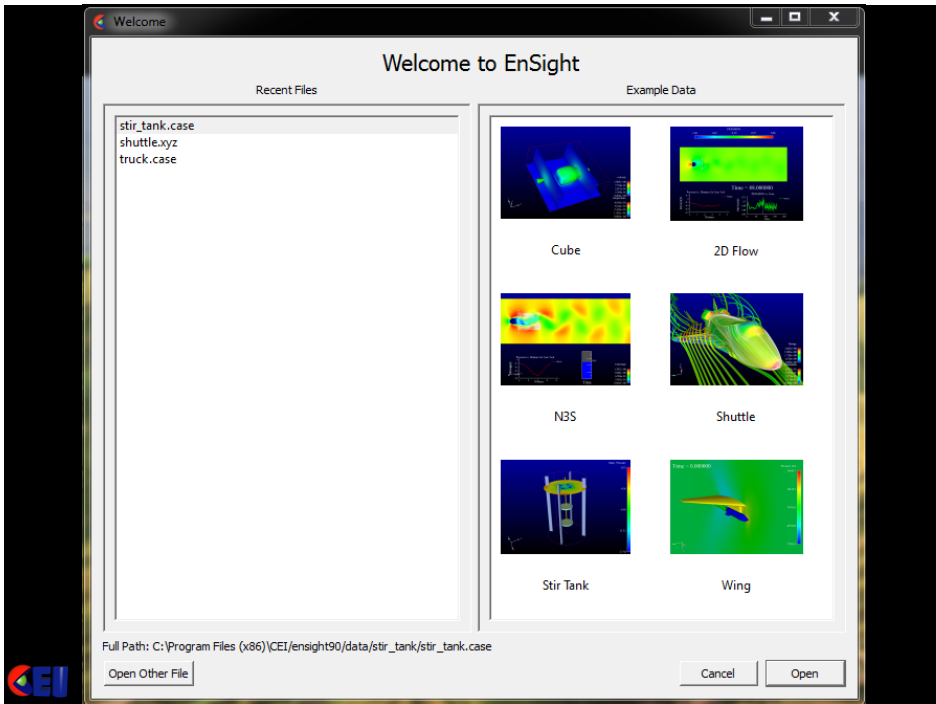
EnSight Forum
October 2, 2009
Tokyo, Japan

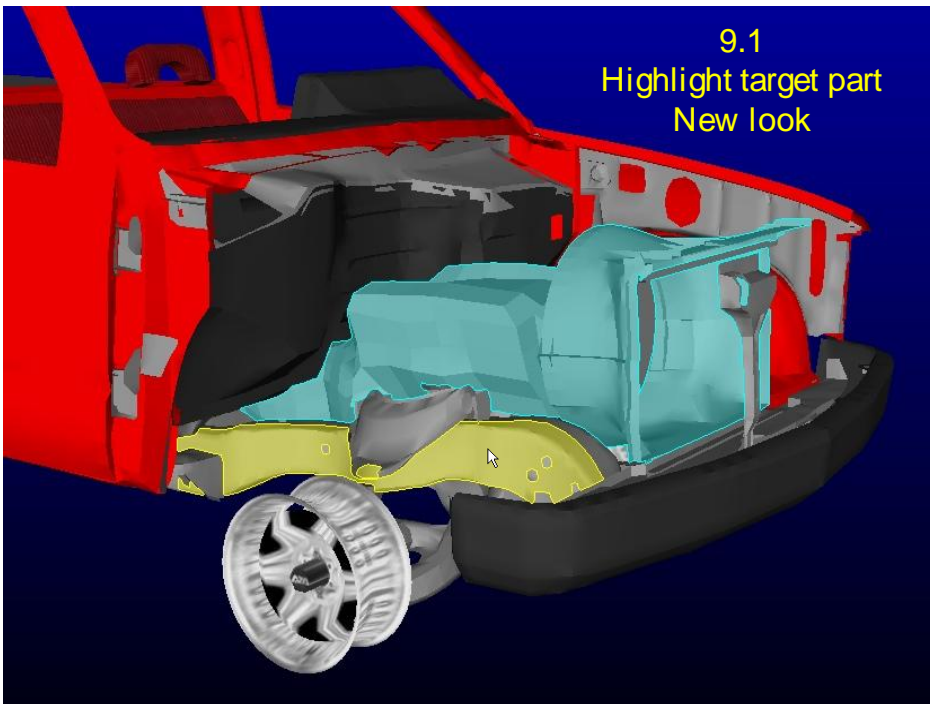
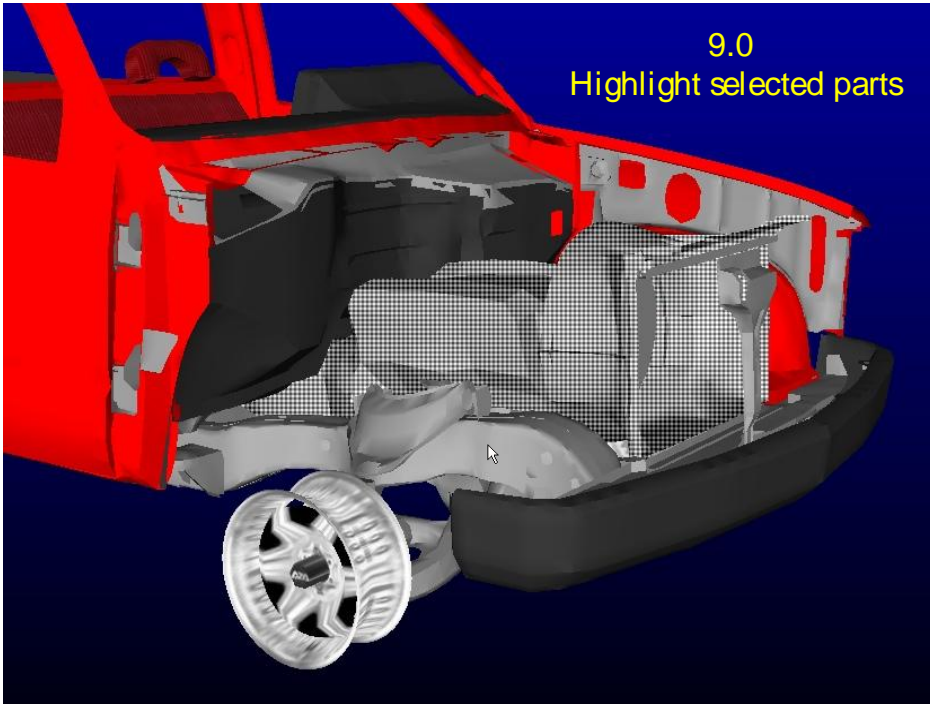


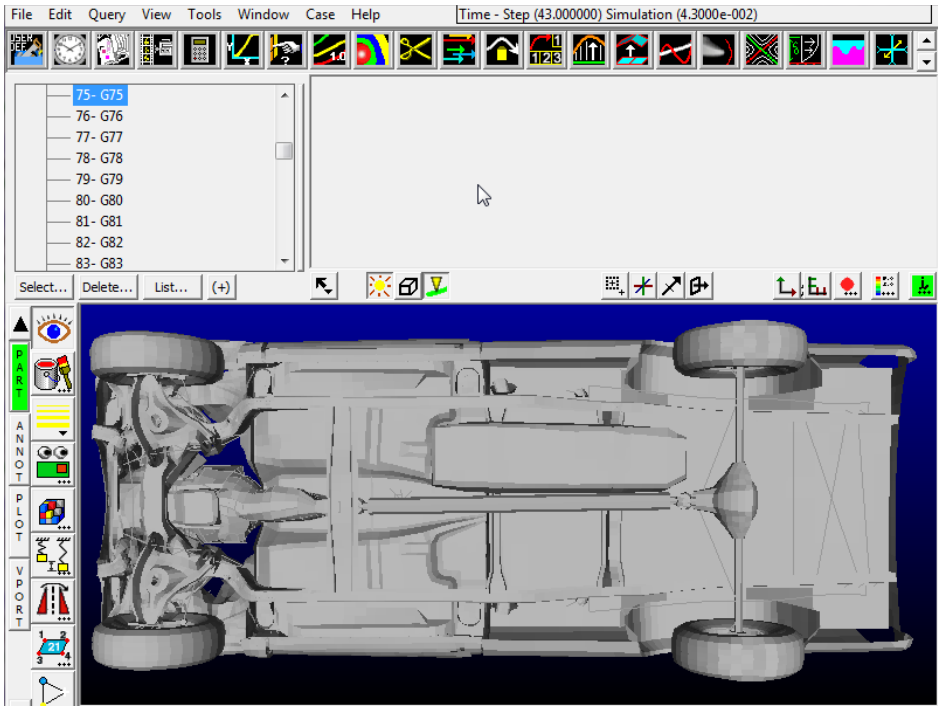
New to EnSight 9.1

- User interface enhancements
 - Welcome screen
 - Part highlighting
- Increased functionality
 - Volume rendering
 - 3D text and line annotation
 - Data import/export
- Improved performance
 - n-faced elements





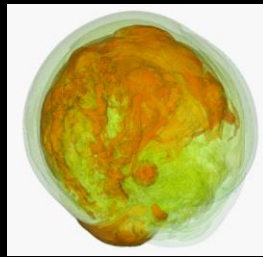




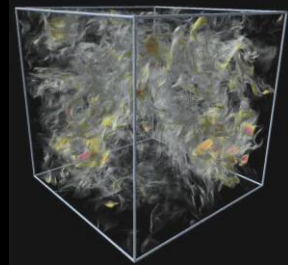
Volume rendering



Medical imaging



Astrophysics

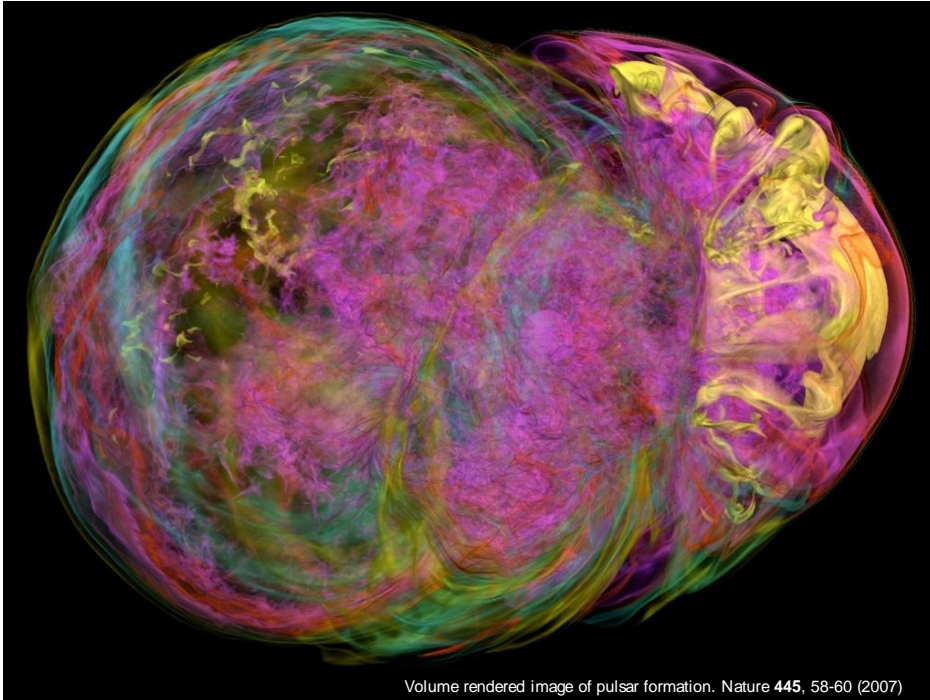


Turbulence



Fire and smoke

- Weather
- Mixing
- Combustion



Volume rendering

Alternative means to visualize volumes

Not limited to clip planes, isosurfaces, and particle traces

Former limitations of volume rendering

Computationally
intensive

Modern
graphics
hardware

Difficult
to use

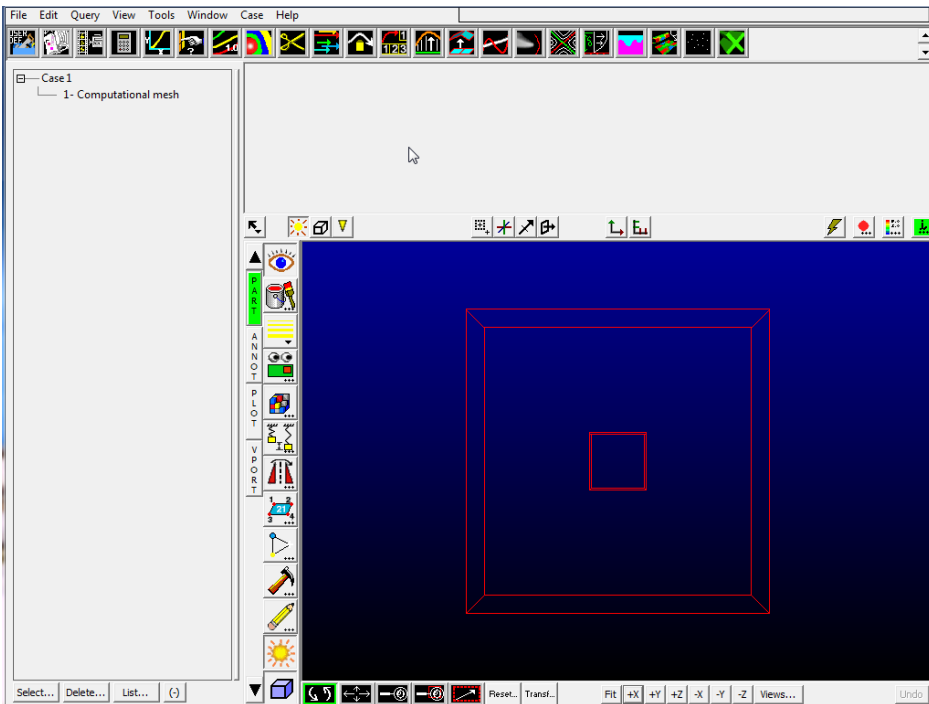
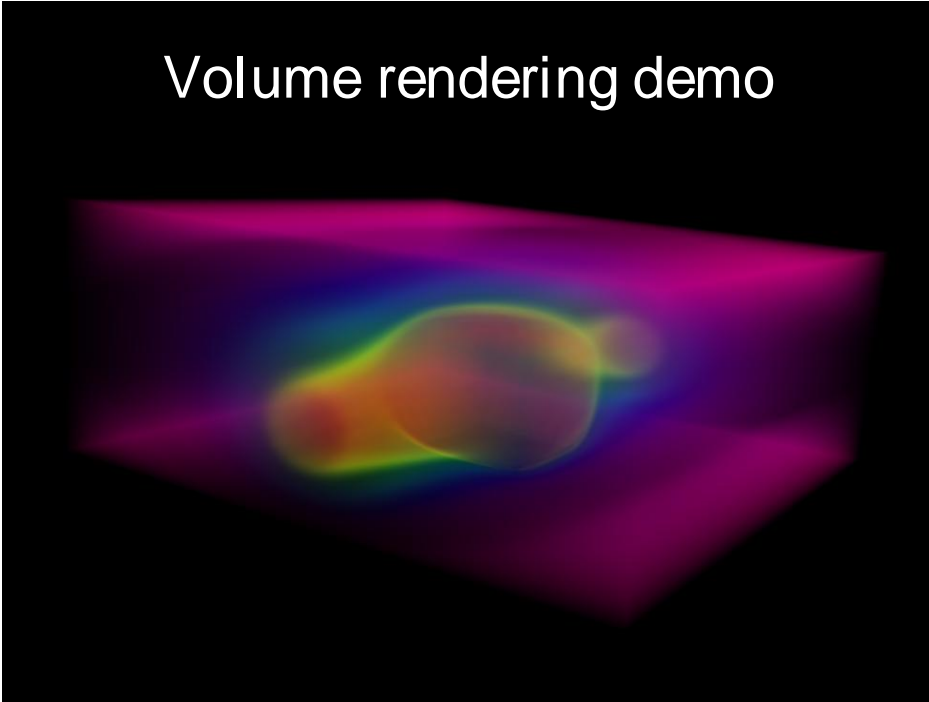
Easy
palette
editor

Lack of
Commercial
support

CEI
support

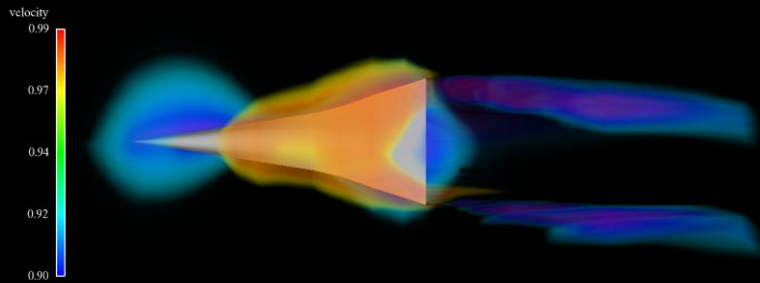


Volume rendering demo



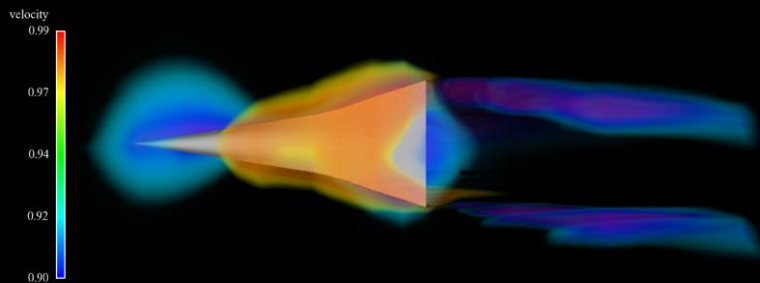
Hardware requirements

- NVIDIA and ATI graphics cards
 - Hardware rendering only using OpenGL 2.0
 - Desktop graphics cards are fine
- Large client system RAM
- <2 year old video card with large video memory recommended (512+ MB)

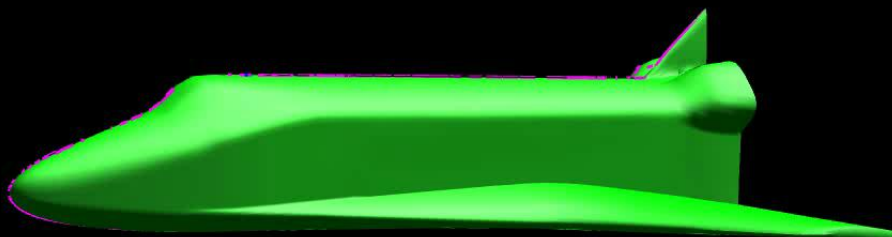
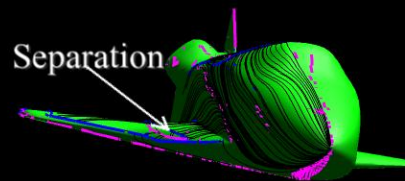


In EnSight

- Available in all versions of EnSight
- Distributed rendering is not supported the first release
 - Full support is expected in future versions



3D Text Annotation



Data I/O

Improved readers

- Autodyn (new)
- Fluent
 - IcePak and AirPak
 - polyhedral cells
 - computational symmetry
- Star CCM+
- Tecplot Binary
- Polyflow

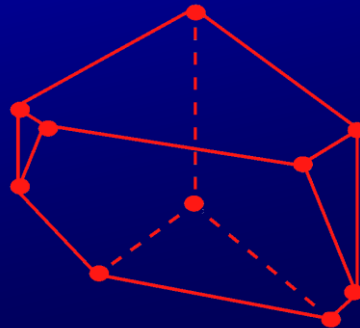
Improved writer

- JT Open 5.0



n-faced elements

- Greatly reduced memory use
- Star-CCM, Star-CD, Fluent
 - The updated Fluent reader also supports polyhedral elements

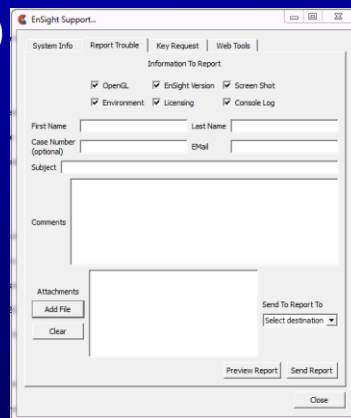


Extensibility with Python

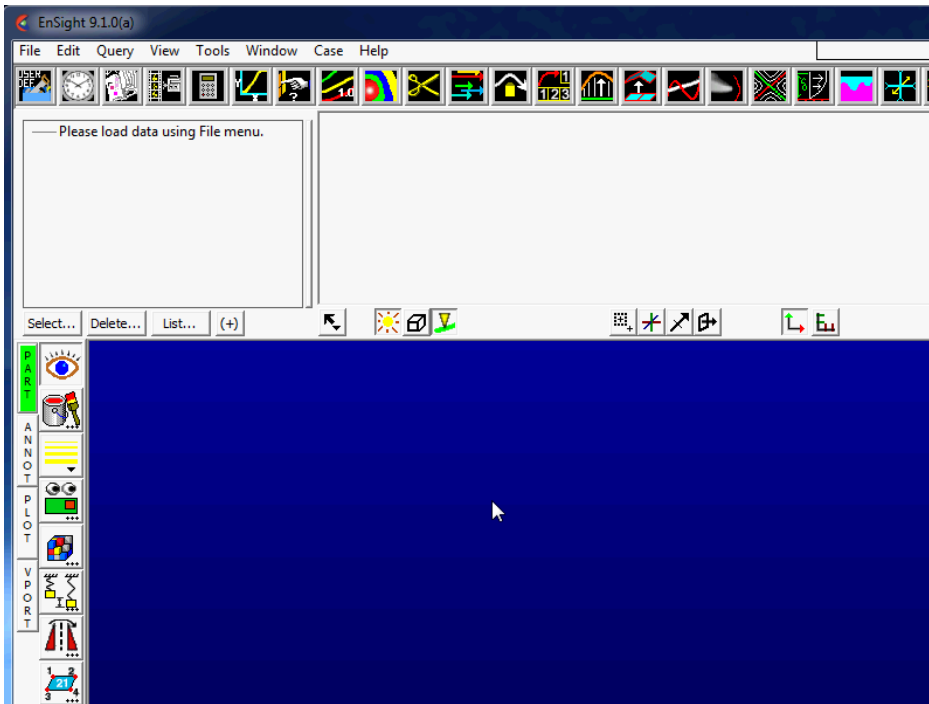
- Programming language
 - Free for all uses - open-source
 - Powerful - high level
 - Strong worldwide user community
- Integrated with Python since EnSight 8.2
- 9.1 includes expansion of the EnSight Python API

Online support tool

- Helps solve your problems faster by sending the information we need
- New in 9.0



The screenshot shows a window titled "EnSight Support...". It has a menu bar with "System Info", "Report Trouble", "Key Request", and "Web Tools". The "Report Trouble" menu is active, showing a sub-menu "Information To Report" with the following options: OpenCL, EnSight Version, Screen Shot, Environment, Licensing, and Console Log. Below the menu, there are input fields for "First Name", "Last Name", "Case Number (optional)", "Email", and "Subject". A large text area is labeled "Comments". At the bottom, there is an "Attachments" section with "Add File" and "Clear" buttons, a "Send To Report To" dropdown menu with "Select destination" as the current selection, and "Preview Report" and "Send Report" buttons. A "Close" button is located at the very bottom right.



Thank you

For more information:

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