

# TCAD OMNI LICENSE

University Program for North America and Europe

ALL TOOLS, ONE LICENSE, FLAT FEE



TCAD OMNI License is a pioneering licensing methodology that enables researchers and students to access any of the Silvaco TCAD tools with a single license. The TCAD OMNI License allows access to all TCAD frameworks, one tool at a time, for a fixed annual fee.



- Affordable, fixed annual fee for each TCAD OMNI License
- Combine TCAD OMNI License with standard term-based licensing for individual tools for optimal license mix
- License supports any combination of products (if available) on Linux, Solaris and Windows platforms
- TCAD OMNI License can be used anywhere on your wide area network
- TCAD OMNI Licenses are available in incremental blocks

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# TCAD OMNI License Framework List

Framework/Product Name	Framework/Product Description
<b>ATHENA FRAMEWORK</b>	<b>Process Simulation Framework</b>
SSuprem4	2D Core Process Simulator
MC Implant	Advanced Monte Carlo Implantation Simulator
Optolith	Advanced 2D Optical Lithography Simulator
Elite	Advanced Physical Etching and Deposition Simulator
MC Deposit/Etch	2D Monte Carlo Deposition and Etch Simulator
<b>ATLAS 2D FRAMEWORK</b>	<b>2D Device Simulation Framework</b>
S-Pisces	2D Silicon Device Simulator
Blaze	2D Device Simulator for Advanced Materials
MC Device	2D Monte Carlo Device Simulator
Giga	2D Non-Isothermal Device Simulator
MixedMode	2D Circuit Simulation for Advanced 2D Devices
Ferro	Ferroelectric Field Dependent Permittivity Model
Magnetic	2D Magnetic Device Simulator
Quantum	2D Simulation Models for Quantum Mechanical Effects
Luminous	2D Optoelectric Device Simulator
LED	Light Emitting Diode Simulator
VCSEL	Vertical Cavity Surface Emitting Laser Simulations
Laser	Semiconductor Laser Diode Simulator
TFT	2D Amorphous and Polycrystalline Device Simulator
Organic Display	OLED and OTFT Organic Display Simulator
Organic Solar	Organic Solar Cell and Photodetector Simulator
Noise	2D Small Signal Noise Simulator
<b>ATLAS 3D FRAMEWORK</b>	<b>3D Device Simulation Framework</b>
Device3D	3D Device Simulator
Giga3D	3D Non-Isothermal Device Simulator
MixedMode3D	3D Circuit Simulation for Advanced Devices
Magnetic3D	3D Magnetic Device Simulator
Quantum3D	3D Simulation Models for Quantum Mechanical Effects
Luminous3D	3D Optoelectric Device Simulator
TFT3D	3D Amorphous and Polycrystalline Device Simulator
Thermal3D	Thermal Packaging Simulator

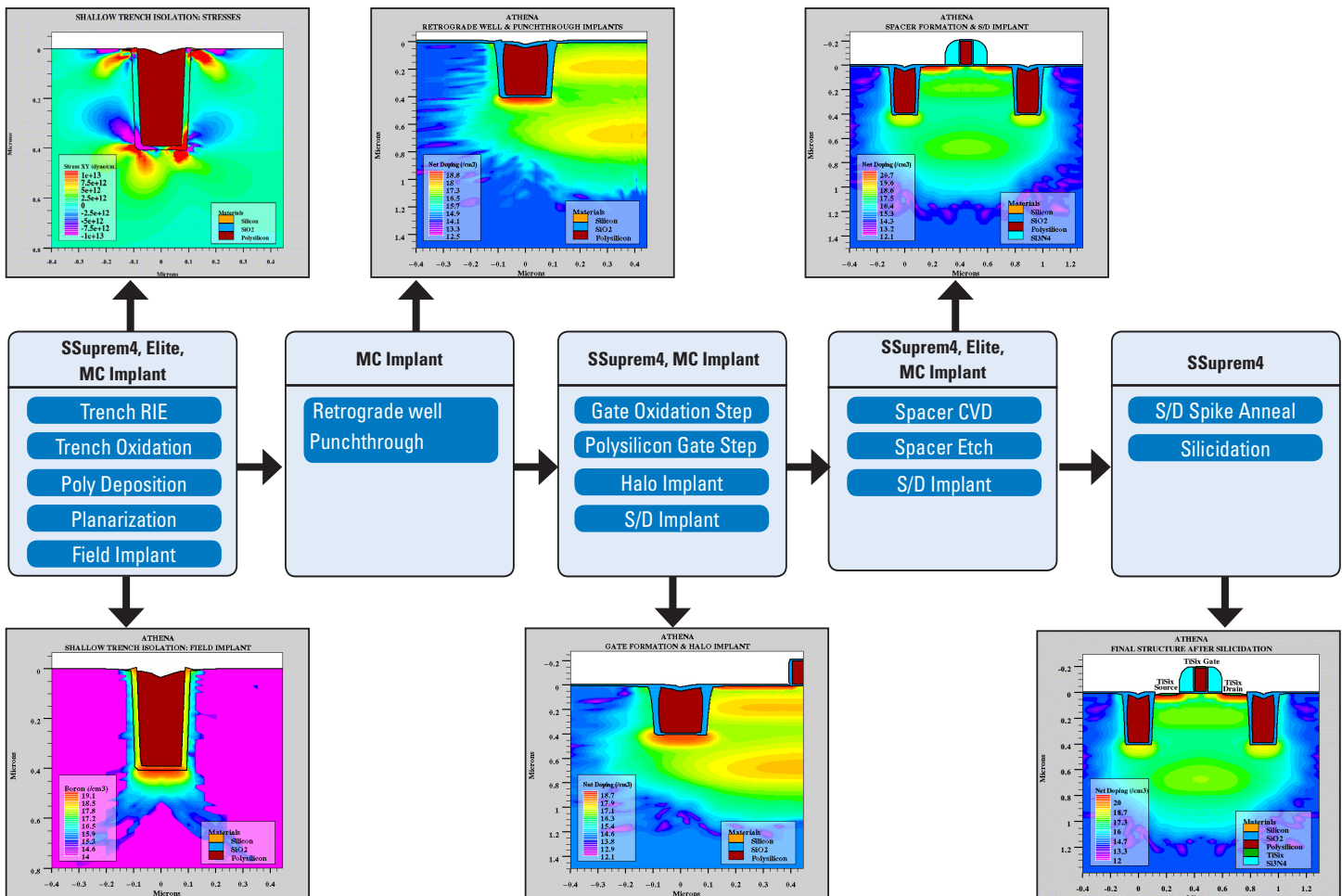
NOTE: Multicore capability included.

# Interactive Tools

Option Name	Option Description
TonyPlot	1D/2D Interactive Visualization Tool
TonyPlot3D	3D Interactive Visualization Tool
DevEdit	Structure and Mesh Editor
DevEdit3D	3D Structure and Mesh Editor
DeckBuild	Run-Time Environment
MaskViews	Integrated Layout Editor

NOTE: 10 Interactive Tool licenses included with each TCAD OMNI.

## Typical 90nm CMOS Process Flow that can be Simulated with a Single TCAD OMNI License



## Core Tools

### ATHENA

1D/2D Process Simulation Software

### ATLAS

2D/3D Device Simulation Software



## Interactive Tools

**DeckBuild**  
Run-Time  
Environment

**DevEdit**  
Structure & Mesh  
Editor

**TonyPlot**  
1D/2D Interactive  
Visualization Utility

**TonyPlot3D**  
3D Interactive  
Visualization Utility

**Optimizer**  
Optimization  
Utility

**MaskViews**  
Layout  
Editor

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Rev. 031711\_24