

TOKEN CARD

PAY AS YOU GO MOBILE LICENSE FOR ALL SILVACO TOOLS



Ultimate licensing mobility and the fairest value to the user

- A user is only charged for the actual time spent running tools
- Instant access to all Silvaco software on any machine at any time
- Instant top-up available by credit card online (\$10 per token hour, minimum 10 hours)
- License tied to USB key which allows mobility
- The token card can be mixed with any other licensing options, including those purchased in the past
- Price per token hour varies by tool as listed in Universal Token brochure (time charged in increments of 1/1000th of a second)
- No fear of license expiration*

A token card is ideal for use in overflow situations, mobile users and for occasional tool use.

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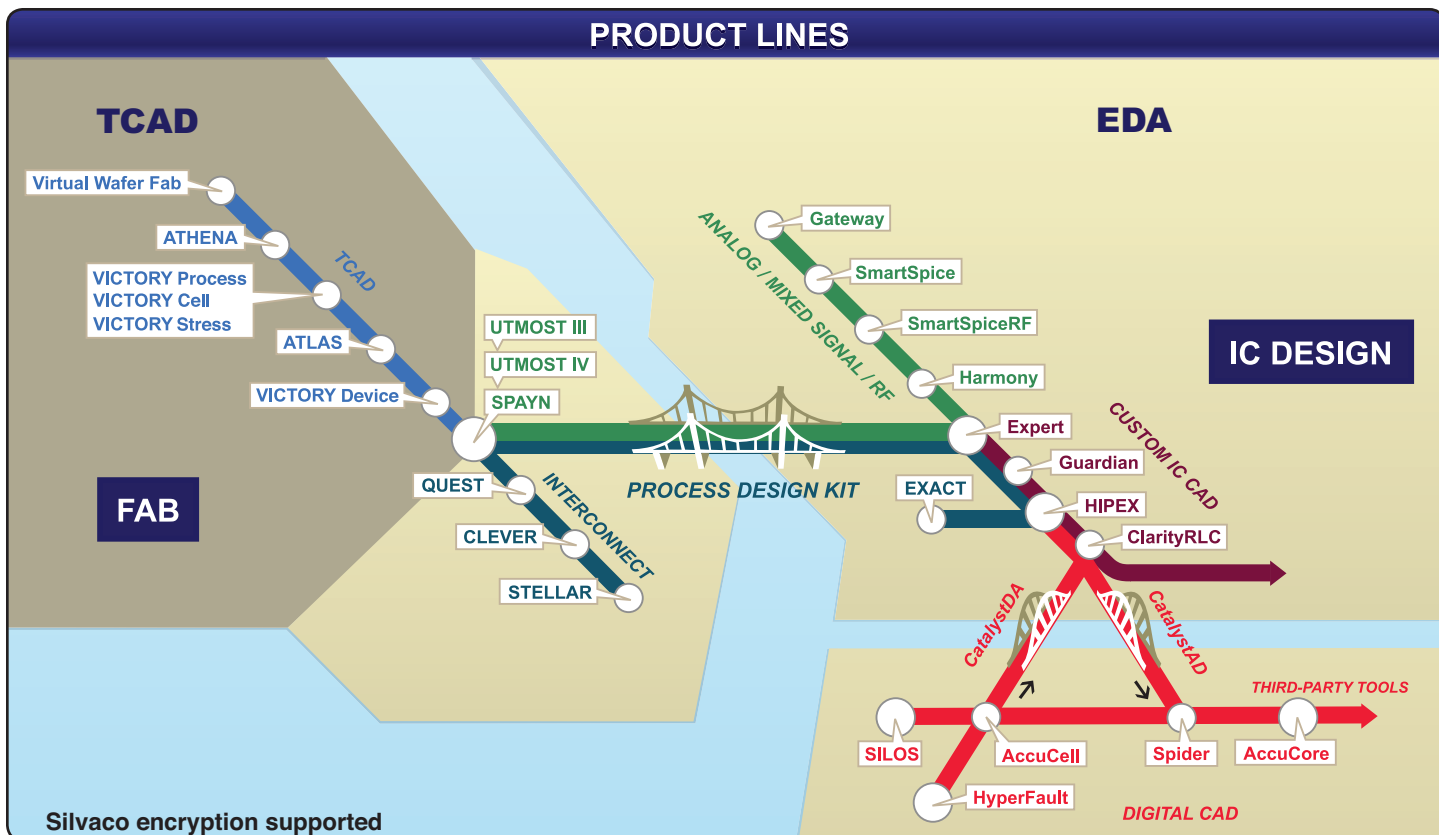
TCAD TOOLS - TOKEN ALLOCATION

(Multicore Capability Included)

Product Name	Product Description	TOKENS
VWF	Virtual Wafer Fab	4
ATHENA FRAMEWORK Process Simulation Framework		
SSuprem4_bundle	2D Process Simulator <i>Includes: MC Implant, Optolith, Elite, MC Deposit/Etch</i>	20
ATLAS 2D FRAMEWORK 2D Device Simulation Framework		
S-Pisces_bundle	2D Silicon Device Simulator <i>Includes: Giga, MixedMode, Quantum, Luminous, Noise, Ferro, Magnetic, MC Device</i>	24
Add-on Simulator		
TFT_bundle	2D Amorphous and Polycrystalline Device Simulator	2
Blaze_bundle		
	2D Device Simulator for Advanced Materials <i>Includes: Giga, MixedMode, Quantum, Luminous, LED, Laser, VCSEL, Noise, Ferro, Magnetic, MC Device</i>	28
Add-on Simulator		
TFT_bundle	2D Amorphous and Polycrystalline Device Simulator	2
Organic_bundle	OLED and OTFT Organic Display Simulator/ Organic Solar Cell and Photodetector Simulator	4
ATLAS 3D FRAMEWORK 3D Device Simulation Framework		
Device3D_bundle	3D Device Simulator <i>Includes: Giga3D, MixedMode3D, Quantum3D, Luminous3D, LED3D, Magnetic3D, Thermal3D</i>	30
Add-on Simulator		
TFT3D_bundle	3D Amorphous and Polycrystalline Device Simulator	2
VICTORY FRAMEWORK 3D Process and Device Simulation Framework		
VICTORY Process	3D Process Simulator	100
VICTORY Cell	3D Cell Process Simulator	100
VICTORY Stress	3D Stress Simulator	80
VICTORY Device	3D Device Simulator	100

EDA TOOLS - TOKEN ALLOCATION

Product Name	Product Description	TOKENS
AMS		
Gateway	Schematic Editor	4
SmartSpice Singlecore	Analog Circuit Simulator	6
SmartSpice Multicore	Analog Circuit Simulator	10
Rubberband	Circuit Rubberbanding	2
SmartSpiceRF	RF Circuit Simulator	12
Harmony	Analog/Mixed-Signal Simulator	20
IC CAD		
Expert	Layout Editor	6
ExpertViews	Layout Viewer	2
Guardian-DRC	Physical Verification	10
Guardian-LVS	Physical Verification	10
Guardian-NET	Physical Verification	10
HIPEX	Full-Chip Parasitic Extractor	24
Clarity RLC	Parasitic RLC Reduction Tool	10
DIGITAL CAD		
Spider	Place and Route	50
AccuCell	Characterization and Modeling Tool	24
AccuCore	Block Characterization and Modeling with STA	32
CatalystAD	SPICE Netlist to Verilog Gates Converter	18
CatalystDA	Verilog Gates to SPICE Netlist Converter	10
SILOS	Verilog Simulator	2
HyperFault	Mixed-Level Fault Simulator	20
Interconnect Modeling		
EXACT	Full Chip LPE Rule File Generation	10
CLEVER	RC Extractor for Realistic 3D Structures	32
QUEST	3D High Frequency Inductance Extractor	18
STELLAR	3D Physics-Based RC Extractor for Large Cells	24
SPICE Modeling		
UTMOST IV DATA ACQ	Data Acquisition Module	8
UTMOST IV FIT	FIT Module	12
UTMOST IV Full Package	Full Package includes Data, FIT, and Optimization	24
UTMOST III MOS	Software for extracting MOS model parameters	12
UTMOST III BIPOLAR	Software for extracting BIPOLAR model parameters	12
UTMOST III SOI	Software for extracting SOI model parameters	6
UTMOST III TFT	Software for extracting TFT model parameters	12
UTMOST III GaAs	Software for extracting GaAs model parameters	6
UTMOST III JFET	Software for extracting JFET model parameters	2
UTMOST III DIODE	Software for extracting DIODE model parameters	2
SPAYN	Statistical Parameter & Yield Analysis	16



Example of Token Card Use

A user purchases 20 token hours online for a business trip, charging the hardware key with 20 hours of token time.

During the flight the user edits a schematic for 1 hour. As Gateway requires 4 tokens to run, $4 \times 1 \text{ hr} = 4 \text{ hrs}$ is deducted from the card's balance.

While editing the schematic the user runs 3 SmartSpice simulations. Each run lasts for 1 minute. As SmartSpice requires 6 tokens, each run deducts $6 \times 1 = 6 \text{ minutes}$ or 18 minutes total from the card's balance.

The card now has a remaining balance of 15 hours and 42 minutes.

Token Card vs Universal Tokens

A charged Token Card provides an amount of software run time that has a one year expiration date unless additional purchases are made within that year, and can be used in time chunks as necessary. As the card is used and tools are run, time is permanently deducted from the remaining balance, just like calls charged to a phone card.

Universal Tokens provide a fixed term lease for a number of tokens. As tools are run they check tokens out from the pool but upon completion they return the tokens to the pool for use by other tools.

* Disclaimer: Hourly tokens have no cash value and are valid for use for 1 year from date of purchase. A token card's lifetime is always one year after the most recent purchase. At the time of purchase, the remaining balance is combined with the new purchase. Token time is non reimbursable and sold as-is. Users are responsible for monitoring token usage and ensuring that applications are exited to prevent recurring deductions.

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HEADQUARTERS

4701 Patrick Henry Drive, Bldg. 2
 Santa Clara, CA 95054 USA
 Phone: 408-654-4309
 Fax: 408-496-6080

JAPAN jpsales@silvaco.com
 EUROPE eusales@silvaco.com
 KOREA krsales@silvaco.com
 TAIWAN twsales@silvaco.com
 SINGAPORE sgsales@silvaco.com

CALIFORNIA sales@silvaco.com
 408-567-1000
 MASSACHUSETTS masales@silvaco.com
 978-323-7901
 TEXAS txsales@silvaco.com
 512-418-2929
 ARIZONA azsales@silvaco.com
 480-947-2900

WWW.SILVACO.COM