

Process Design Kit

PDKs for Analog/Mixed-Signal/RF Design Houses

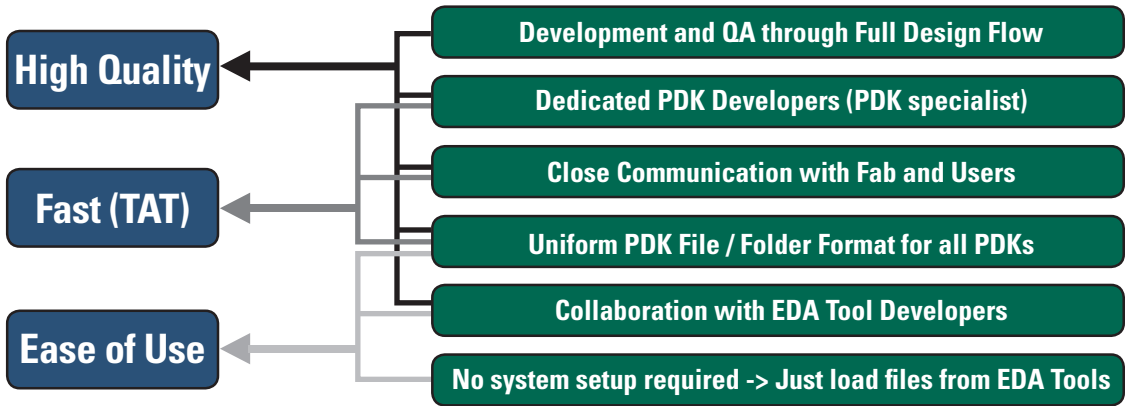


Silvaco Process Design Kit (PDK) jump-starts analog, mixed-signal and RF design cycles with all of the foundry-specific models, symbols, rule decks, and parameterized cells (Pcells) needed for rapid design success using Silvaco's front-to-back Custom IC Design Platform. Silvaco PDKs are rapidly being adopted worldwide by leading foundries and design houses because of their quality and ease of use.

- **Silvaco PDK leadership – high quality, fast TAT, ease of use**
- **PDK as enabling technology – jump-starts designers with an instantly productive environment for new design projects**
- **PDK file usage – simple and efficient**
- **Rapidly Growing PDK users**
- **Support for CMOS, Bipolar, BiCMOS, SOI, SiGe, TFT, CCD, and other processes**
- **Download PDKs from Silvaco's secure web site**

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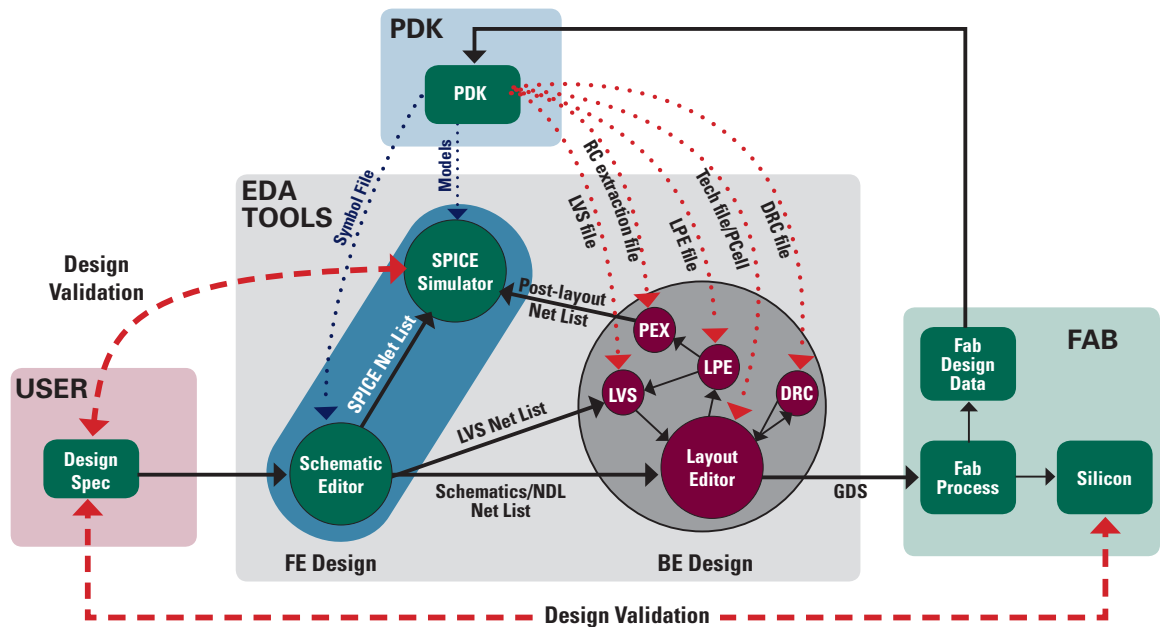
Silvaco PDK Leadership



PDK As Enabling Technology

- PDK is a critical enabling technology for design houses that enables them to utilize EDA tools efficiently and start designing as soon as a PDK is made available
- Silvaco provides design solutions by offering PDKs and EDA Tools together and interfacing with fabs to enable rapid design
- PDK enables "CONNECTING"
 - PDK enables smooth data transfer from one EDA tool to another, creating a seamless design flow
 - PDK enables efficient communication between design houses, EDA vendors and Fabs as it serves as a common ground for communication

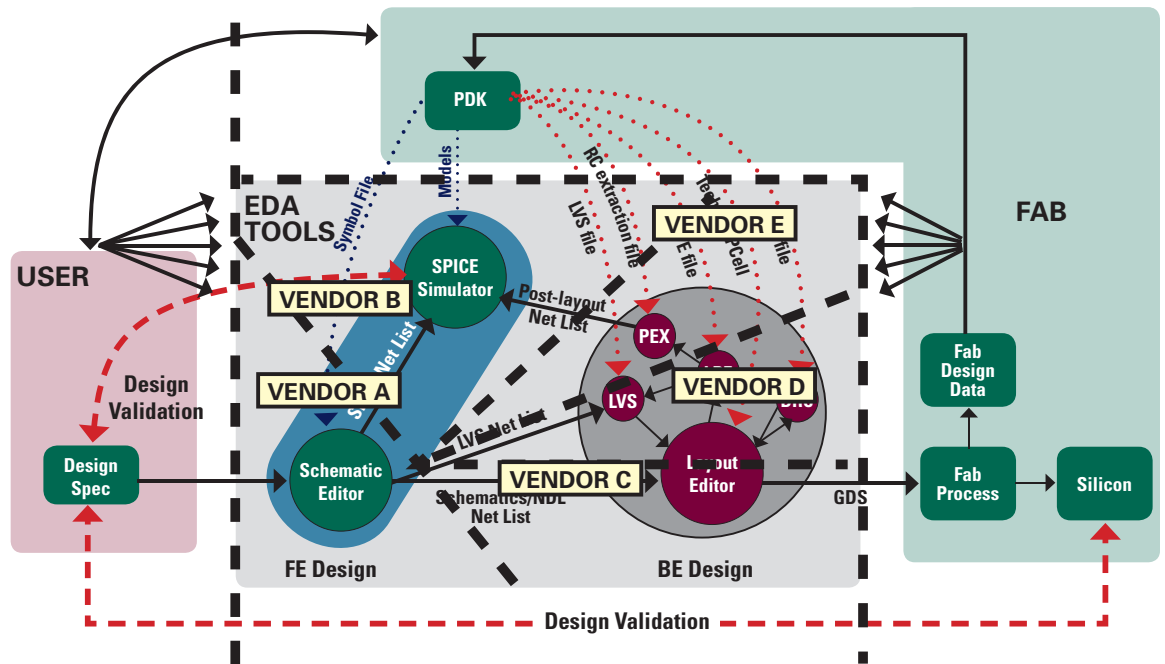
PDK Data Flow



Problem:

The problems with present PDKs are (1) poor integration of PDK data files due to multiple EDA tool vendors, (2) poor communication between user, EDA vendors, and fabs, (3) a lack of ownership of PDK problems among EDA vendors and fabs.

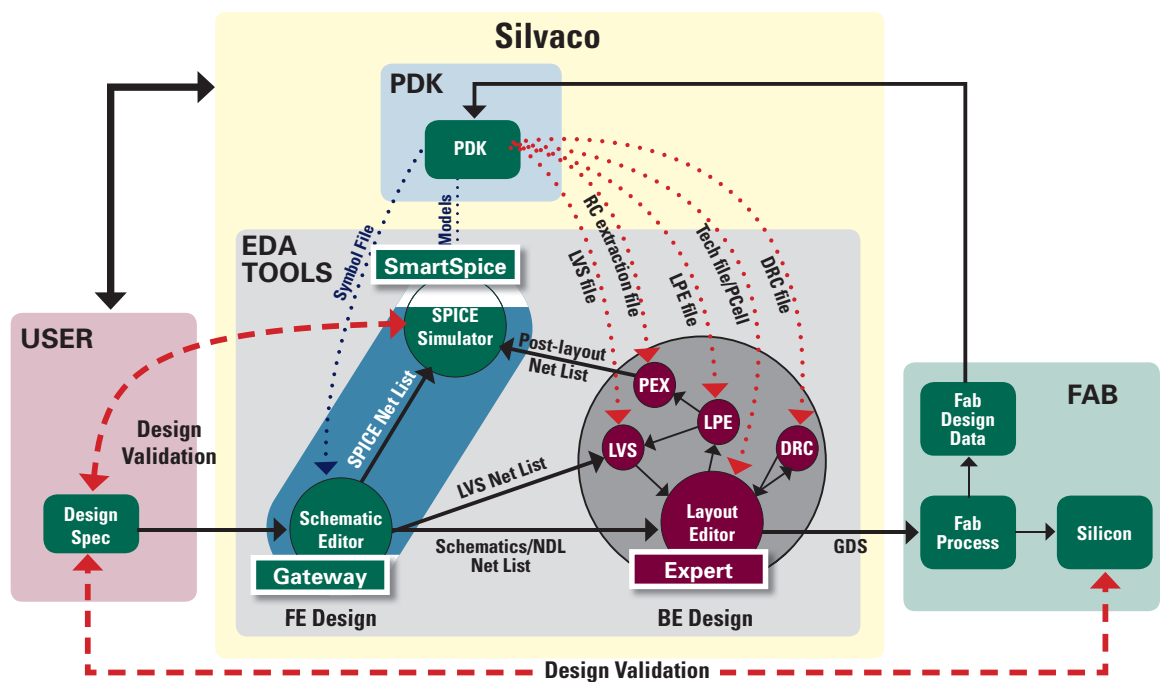
PDK - Problems in "CONNECTING"



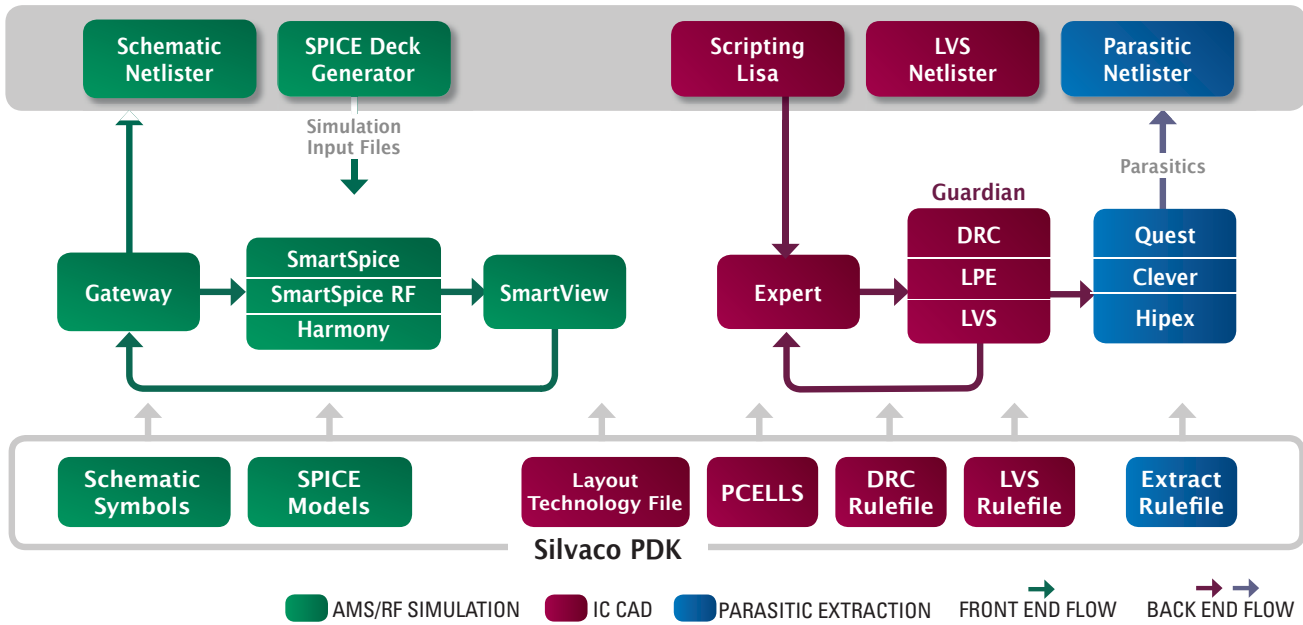
Solution:

Silvaco provides a solution by (1) perfect integration of PDK data files created for full-flow EDA tools by one EDA vendor, (2) clear communication between user, EDA vendor, fabs by a solid single communication channel (USER-Silvaco-FAB), (3) taking full ownership of the PDK process as a solution provider.

Silvaco PDK Enables "CONNECTING"



Silvaco PDK in Complete Custom IC Design Platform



Foundry Partners



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HEADQUARTERS

4701 Patrick Henry Drive, Bldg. 2

Santa Clara, CA 95054 USA

Phone: 408-567-1000

Fax: 408-496-6080

CALIFORNIA

sales@silvaco.com

408-567-1000

MASSACHUSETTS

masales@silvaco.com

978-323-7901

TEXAS

txsales@silvaco.com

512-418-2929

JAPAN

jpsales@silvaco.com

EUROPE

eusales@silvaco.com

KOREA

krsales@silvaco.com

TAIWAN

twsales@silvaco.com

SINGAPORE

sgsales@silvaco.com



WWW.SILVACO.COM

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