

SILVACO

PDKs FOR ANALOG/MIXED-SIGNAL/RF DESIGN HOUSES

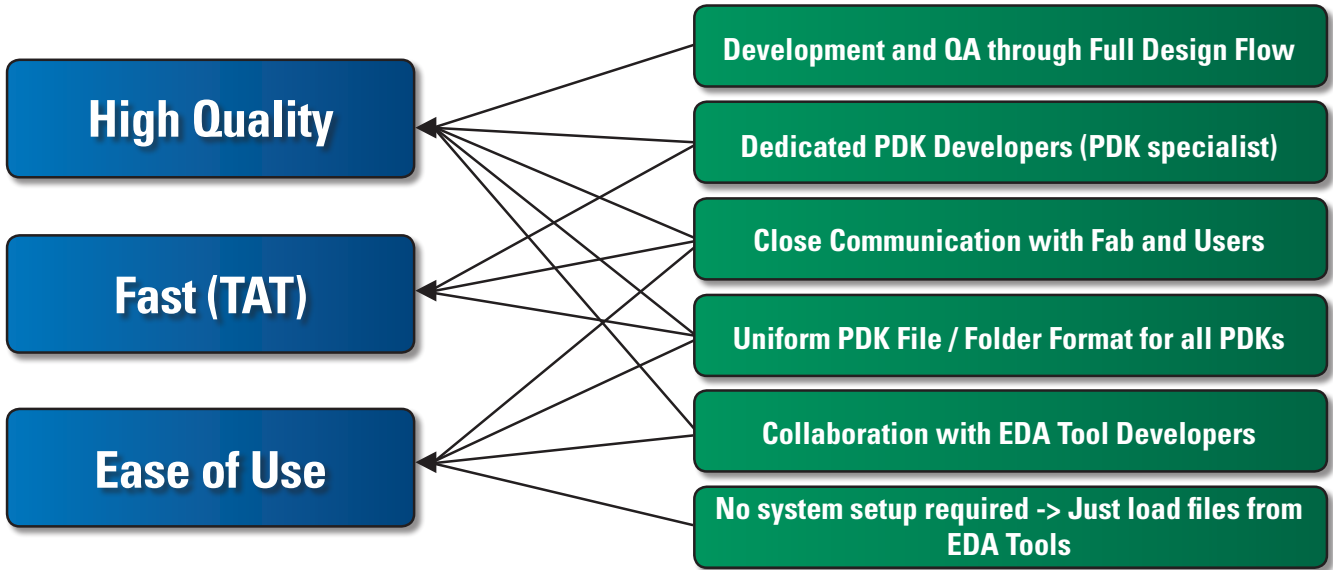


Silvaco Process Design Kit (PDK) jump-starts analog, mixed-signal and RF design cycles with all of the foundry-specific models, symbols, rule decks, and parameterized cells (Pcells) needed for rapid design success using Silvaco's front-to-back Custom IC Design Platform. Silvaco PDKs are rapidly being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



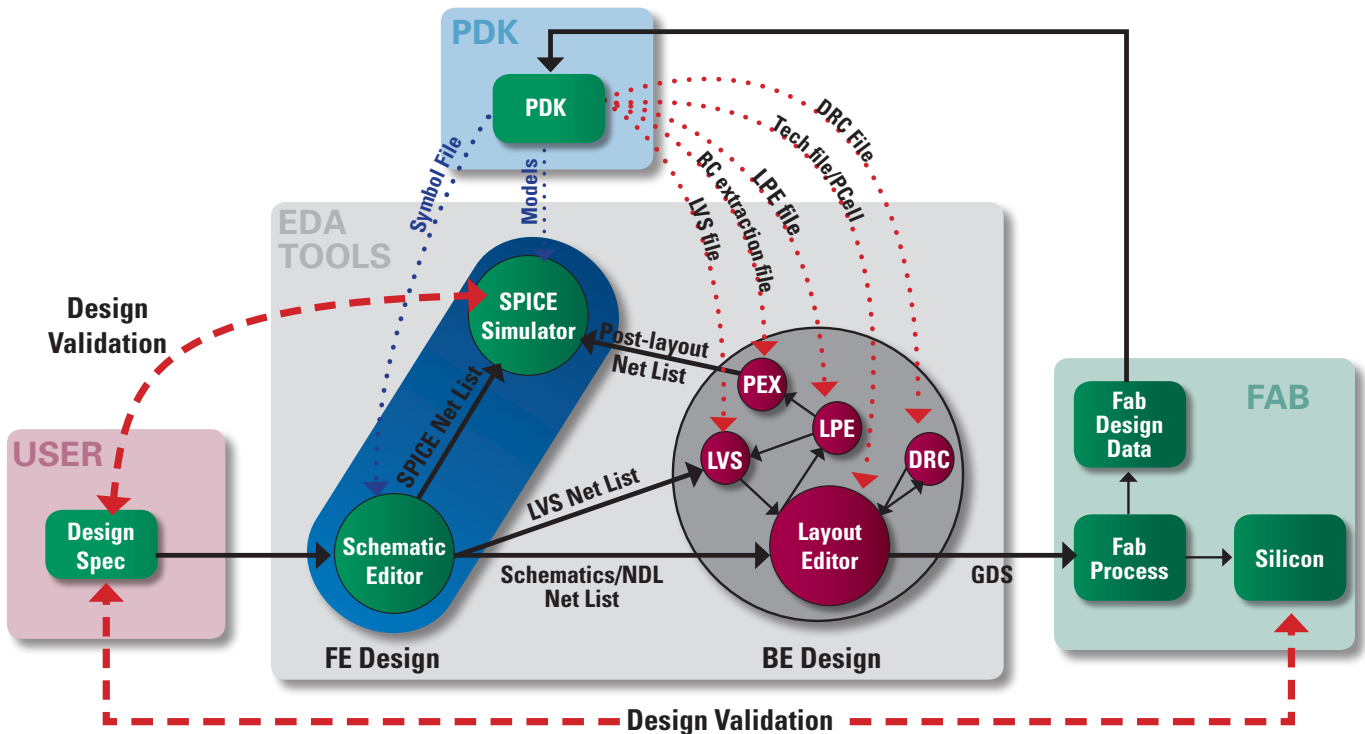
Silvaco PDK Leadership



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

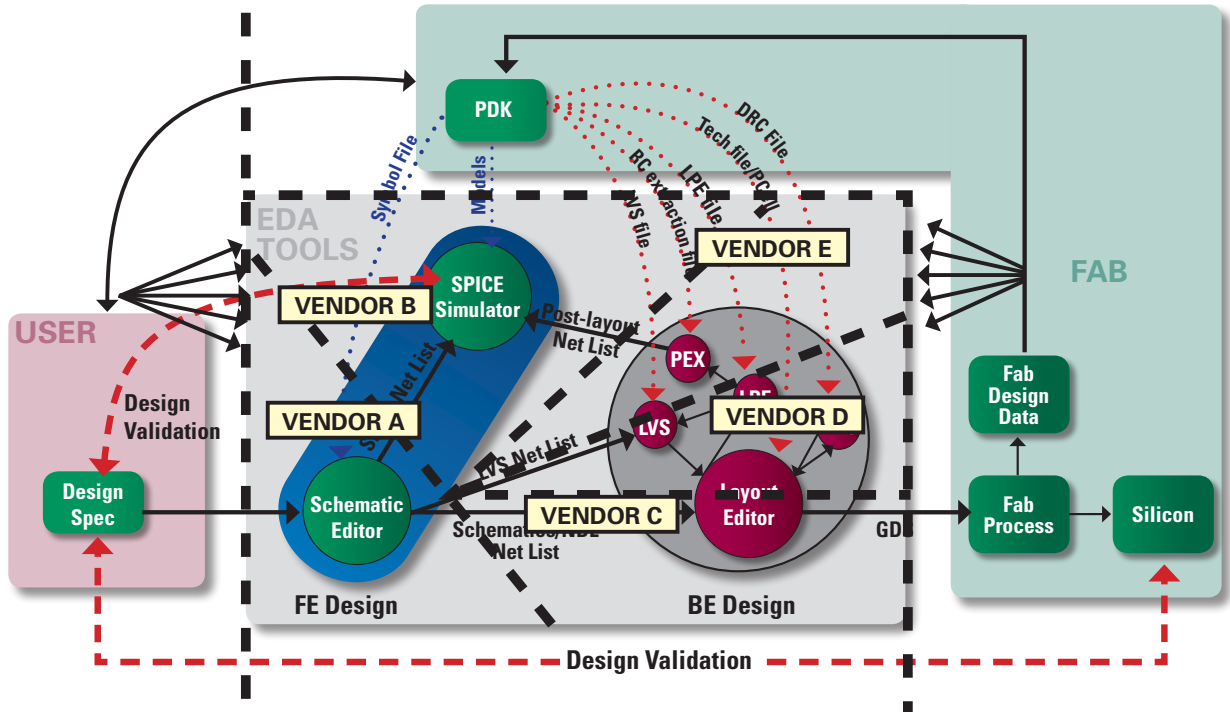
PDK Data Flow



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.

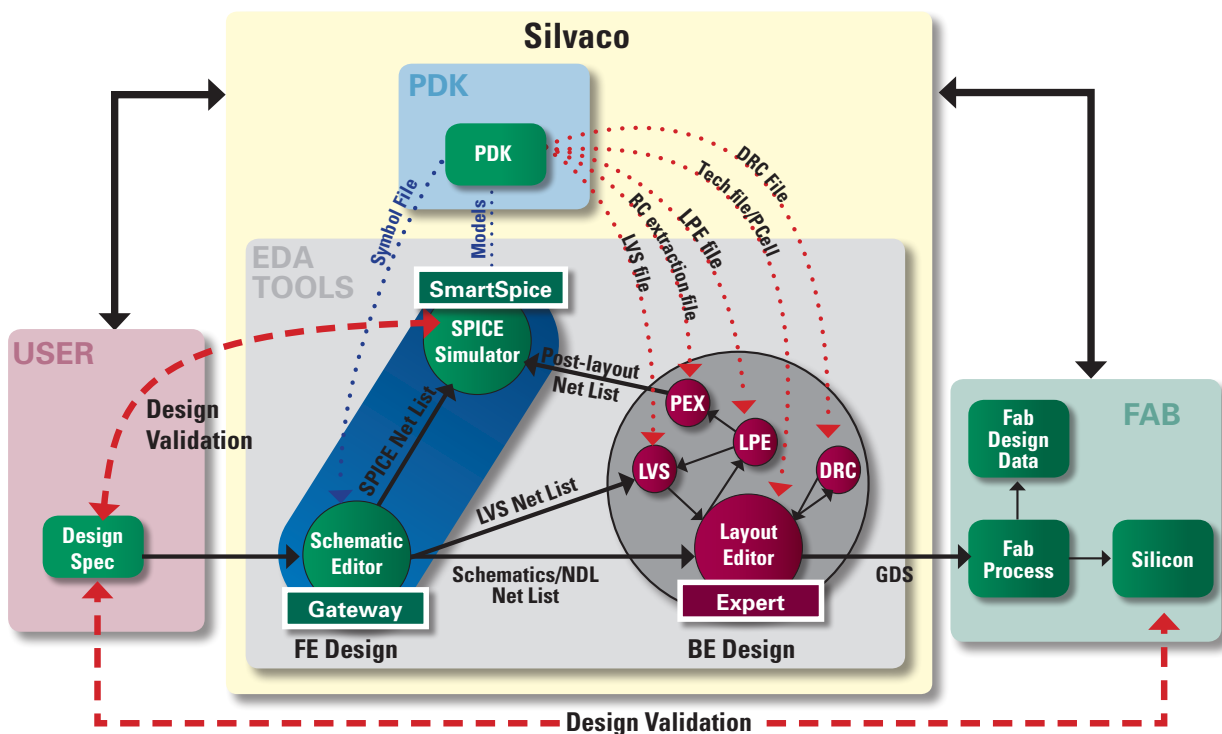
PDK – Problems in “CONNECTING”



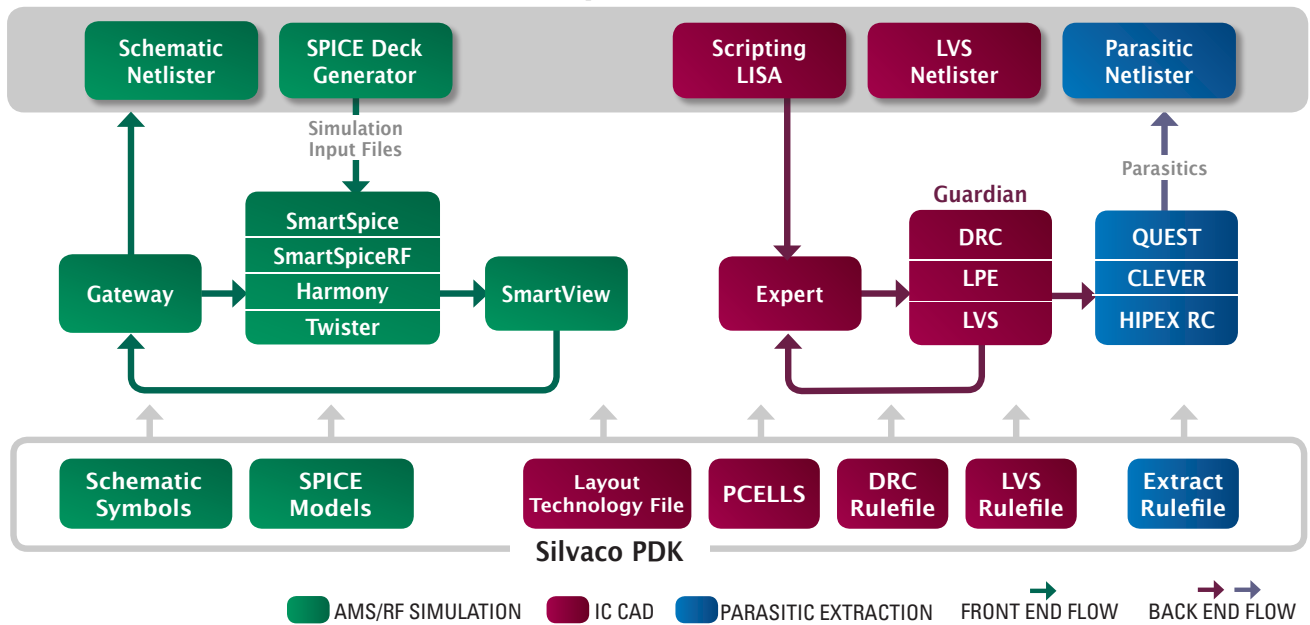
Solution:

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



SILVACO

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