PDK summary

PDK ID:	**tsmc-cm018rf**
PDK version:	**1.1.3.R**
PDK release date:	**8/12/2008**
Fab/Foundry name:	**TSMC**
Technology name:	**TSMC 0.18 UM MIXED SIGNAL 1P6M+ SALICIDE 1.8V/3.3V RF PDK (1P6M/1P5M/1P4M)**

(1) Certified Simucad EDA tool versions for this PDK version:

Gateway:	2.6.7.R
SmartSpice:	3.6.8.R
SmartSpiceRF:	3.6.8.R
SmartView:	2.20.6.R
Expert:	4.4.16.R
Guardian LVS:	4.4.15.R
HIPEX:	3.2.7.R

(2) Important procedures for PDK version migration:

1. **EXPERT - LOADING EXISTING PROJECT (.eld file) with NEW TECHNOLOGY (.tcn file):** Please use the new technology (.tcn) file included in this version of PDK when opening existing projects (.eld) at the first time with this version of PDK, to update technology setting. Please make sure that you have backup of project files before doing this procedure. To enable to select a technology (.tcn) file in "Load Project" window, it is necessary to select (check) options "Use external technology file for eld projects" and "Identify layers by name" in "Preferences" window (Menu: Setup→Technology→General). Please refer to Expert manual "4.2.1: Technology File Selection" for more detail.
2. **SYMBOLS (.body file)** – Update to new symbols (.body): Please update your schematics to the latest workspace (tsmc_cm018.sws). Updated capacitor symbols MOS_VAR_B, MOS_VAR_B3, MOS_VAR, MOS_VAR_33. Removed symbol RPLPOLY_RF, and added instead RPLPOLY_RF_1 and RPLPOLY_RF_2.
3. **Model card Update (rflib.l file)** – Updated to foundry's latest model card release.

(3) Changes for this PDK version (see below list for change code legends) :

1. Model card Update. (E2)
2. Updated certain symbols (A1)
3. Added new symbols (A2)

Change Codes

Affected Tool Functions:

Code A: Gateway - Schematic Edit
Code B: Gateway - Spice Net Generation
Code C: Gateway - LVS Net Generation
Code D: Gateway - NDL Net Generation
Code E: Gateway/SmartSpice - Spice Simulation
Code F: Gateway/SmartView - Wave View
Code G: Expert - Layout Edit
Code H: Expert - Pcells
Code I: Expert - NDL
Code J: Expert/Guardian DRC - DRC
Code K: Expert/Guardian NET - Net extraction
Code L: Expert/Guardian LVS - LVS
Code M: Expert/Hipex RC - RC extraction
Code Z: Others

Change Reasons:

Code 1: Bug fix
Code 2: Fab/Foundry file update
Code 3: Function improvement
Code 9: Others