

## PDK summary

**PDK ID:** IBM-CSOI7TF  
**PDK version:** 1.1.0.R  
**PDK release date:** 4/27/2010  
**Fab/Foundry name:** IBM  
**Technology name:** CSOI7TF (7LM BEOL MA Option)

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

Gateway	2.10.2.R
SmartSpice	3.17.3.C (spectre mode)
SmartView	2.22.8.R
Expert:	4.6.1.R
Guardian LVS:	4.6.1.R
HIPEX:	3.4.1.R

### (2) Important procedures for PDK version migration:

1. **SYMBOLS (.symbols file)** – Gateway version 2.10.2.R is mandatory to use the symbols. Symbols are EDIF compatible.
2. **PCELLS:** The pcell library – `ibm_csoi7tf_dm_pcells.eld` makes use of callback functions, included in the file – “callback.js”.
3. **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.

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

- Initial release of full PDK.

## 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