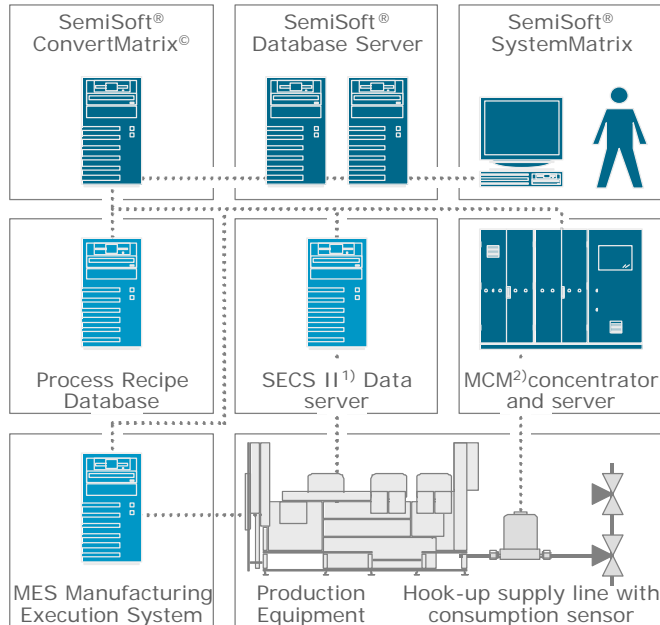




### 300mm Infineon Start-up with SemiSoft

SemiSoft is full integrated in the Start-up of the Infineon Technologies 300mm volume production in Dresden. The SemiSoft consultants and engineers started from the early beginning of the pilot line phase to investigate most realistic system consumption figures for 300mm equipment. The real consumption data was measured with sensors, such as mass flow meters or ultrasonic sensors in the Hook-up lines as well as transmitted via the SECS II interface of the equipment or generated from cumulated recipe date linked with the actual production data. An online data link to the manufacturing execution system (MES) allowed to understand the measured system consumption data in relation to the actual used production capacity for every single supply-system such as chemicals, gases and also power , exhaust or cooling water on every equipment. The data link to the various data sources are the basis for the worldwide first 300mm supply-system database with real measured consumption. Based on this unique data base the SemiSoft team could generate a very precise projection for the 300mm mass production line. With data links to the MES System, the process recipe database, the equipment move-in database and the CAD-Layout the SemiSoft team generated supply-system ramp up curves,

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<sup>1)</sup> SECS - Semiconductor Equipment Communications Standard

<sup>2)</sup> MCM - Material consumption measurement

Data flow structure of the SemiSoft installation at Infineon Technologies SC300

supply-system layouts and supply-system budget plans. Based on this information Infineon could design a optimized, custom-made supply system infrastructure. The SemiSoft products and services are also an important success factor for the fast track Start-up project. In the running Fab the SemiSoft SystemMatrix is in operation as supply-system database including energization tracking for every single Sub-main interface.

SemiSoft® is the trademark project management, engineering and software design of SHK. SHK is a team of young, highly motivated specialists working to support their clients projects during the construction, ramp up, and mass production phases of leading edge wafer front-end production lines. For more information please refer to [www.SemiSoft.de](http://www.SemiSoft.de) and [www.SHK.com](http://www.SHK.com).