

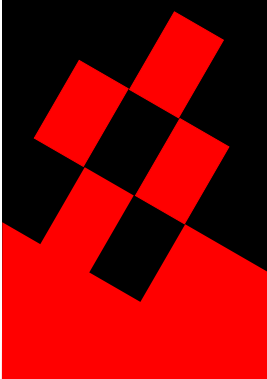


eFoundry™



# TSMC eFoundry™

Realizes "Virtual Fab" Vision



# TSMC's eFoundry™ Shortens Time-to-Volume

TSMC's eFoundry is a suite of industry-leading web-based applications that provides real-time support for wafer design, engineering, and logistics. TSMC eFoundry brings the "Virtual Fab" to life.

Through eFoundry, customers work closely with TSMC by monitoring key information through 24/7 online access to engineering and supply chain information such as purchase orders, Work In Process (WIP) reports, shipping notices, and other important logistical information.

## TSMC eFoundry suite provides useful web-based applications through two channels: TSMC-Online™ and TSMC-Direct™

### TSMC-Online

TSMC-Online is the industry's first secure online business transaction and information delivery system:



- **Design Collaboration**  
Supports customers' accesses to complete and accurate information at each step in the design process.
- **Engineering Collaboration**  
Access pilot run, risk run, yield and PCM analysis and quality/reliability data.
- **Logistics Collaboration**  
Accesses the status of wafer fabrication, assembly and test, final test, order handling and shipping.
- **One-to-one Integration**  
Provide enhanced interactive features such as key word search, personalization through "My Online", and summarized production reports.

#### The result:

- Complete foundry production cycle coverage
- Total visibility into TSMC's fabs
- Complete availability of up-to-date technical documents

### TSMC-Direct

TSMC-Direct is a system-to-system integrated link between TSMC and business partners that use third-party software to connect mission-critical business processes. The result is a "virtual merger" that seamlessly integrates process and information systems.

#### The result:

- Better visibility into the semiconductor supply chain
- Reduced cycle time, inventory levels and inventory-related cost
- Ability to handle free format types such as text, images, CAD files, and binary data

## Key Web-based Applications

### Design Collaboration - DocuFast

DocuFast provides a set of prepackaged and verified design-related documents specific to TSMC's technologies. The aim is to minimize document preparation time prior to design initiation and to reduce the rework time through early notification version changes. Designers can share the Bill of Document with other design team members through automatic mail notifications of future Engineering Change Notices (ECN's). This enables design impact studies and updates to be implemented on time.

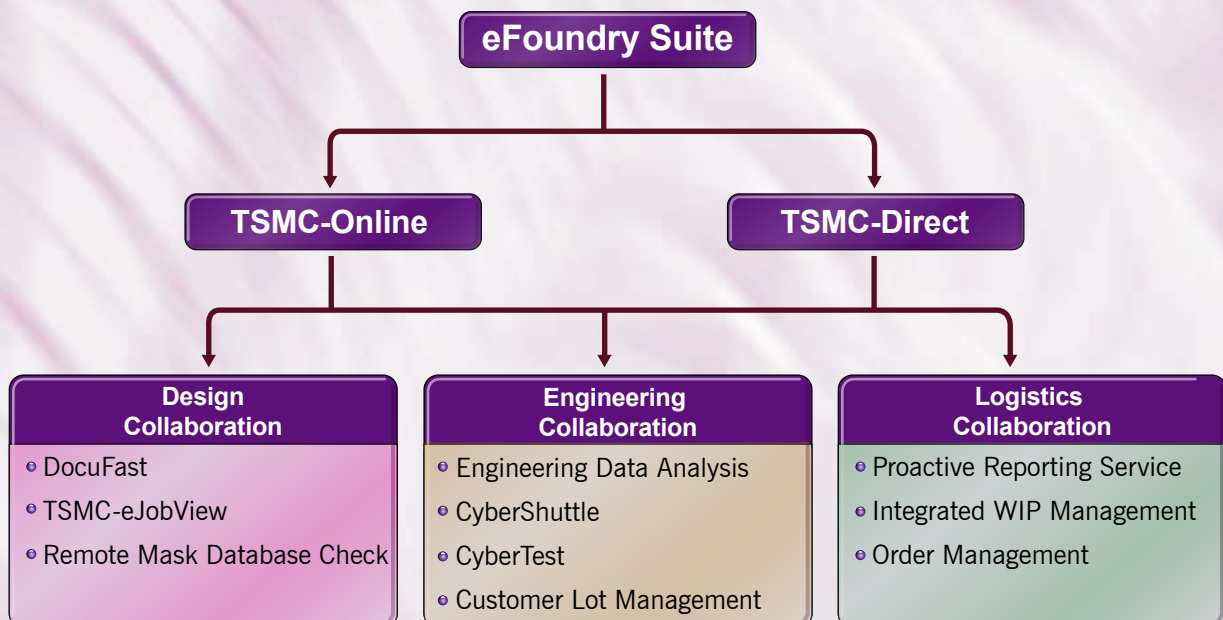
### Engineering Collaboration - Engineering Data Analysis

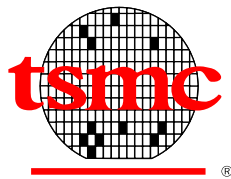
Engineering Data Analysis contains engineering data and testing results on wafer acceptance tests, wafer sort tests and assembly and test yields. Engineers can access TSMC electrical data and yield trend charts through the Internet at their convenience. Features provided in this section include customized SPC data, PCM, IQC & CP result (lot base), PCM analysis, CP yield analysis, assembly and final test yield.

### Logistics Collaboration - Proactive Reporting Services

Proactive Reporting Services provides the ability to subscribe production information reports. Subscription portfolio management allows customers to manage their own report subscriptions.

## TSMC eFoundry Architecture





## Empowering Innovation

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