

Supplier e-Diagnostics Comments

What would be done with Tool Data?

(Likely better OEE, e-Diagnostics, Remote Support, Improved Tool Development. But other benefits are...)

1. Statistical Improvement of tool performance.

Estimated 60-70% of “broke” unnecessary repair caused by excursion anxiety.

Statistical health of process components (e.g., RF Bias, Temp...) objectively reduces this expense, down time.

2. Cooperative cost reduction (TSP example met reduction objectives)

Connectivity brings diverse expertise to tool immediately when needed.

Data, connectivity improves learning from global installed base.

Software support and upgrade safer

3. Include spares S/N and use tracking.

Warning of bad lots. Improve supply. Reduce consumption.

4. Process Module Support requires data on related tools

(e.g., Interconnect, Gate, Cap.)

Critique of Guidelines

1. Security--Shape locally to trusted support team (IC Maker+Supplier) on benefit to know

Early data access to tool, “bay by bay” according to benefit to bring expertise and objectivity to support

Balance tension between privacy & learning. (Fierce secrecy between competing fabs of same company)

2. Architecture

Need common Interface, storage, communications of “dashboard” information

But will continue to be supplier system that will not be common. Allow high enough bandwidth.

3. Collaboration

NetMeeting access to Tool in bay will reduce cycle time and make common expert participation

Need faster mutual qualification based on logged data.

Questions

Can e-Diagnostics for embedded modules be included (e.g. RF Generators, Pumps,.....)?

We are looking for two IC maker partners to develop Statistical Tool Health?

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