Routing & Dispatching



Defines the process and rework flows as well as it provides step and resource level dispatch rules

Overview

In any manufacturing environment, it's necessary to define in a controlled manner the different process flows that can be assigned to products and materials. These process flows can also include rework flows to recover material from certain problems.

Dispatching provides a mechanism to define flexible material sorting rules for a step or for a resource so that the operator

knows what is the next material to be processed, or the next resource for a material. Dispatching works based on services. Resources provide services and materials require services at certain processing contexts (Step, Flow, Product, etc.). When there is a match between the service required by the material and the service provided by the resource, the material can be dispatched and processed in that resource.

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G MOSRM8H	DETAILS	Ð
I 🕒 Ash Clean	Step	٩
2 Wet Bench	✓ STEP	
1	General Data	
1 3 Ash Clean	Description: High Temperature Anneal	
i 4 Epitaxy	Optional: X No Rework: X No	
1 5 Oxidation	1	
6 High Temperature Anneal × P Optional:	I	
7 • Wet Bench	1	
8 • Wafer Inspection	/	
9 Dielectric Deposition		

Figure 1 Flow definition



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Key Features

- Support for flow version management with access and change control.
- Support for hierarchical flows that contain other flows in order to promote flow re-usability.
- Support for alternate flows, alternate steps, and optional steps.
- Support for non-sequential flows which means that the steps of the flow can be performed in any sequence.
- Support for multiple rework paths at every flow-step combination. A rework path defines a go-to and return point.
- Support for flexible dispatch sorting rules, using predefined or user created rules.
- Support for push (what's next for material?) and pull (what's next for resource?) dispatch rules.

Benefits

- Increased process control
- Increased process automation

• Reduction in the opportunity for errors

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Entity Main Production Flow.1 (Created)	Step Actions			Page
Main Production Flow. 1 (created) Main Production F		GENERAL DATA SERVICE (1) R	ESOURCE (5) DATA COLLECTION (1) CHART (1) FUTURE ACTIONS	Context View 🧿
 1. Mixing 2. Moulding 3. Baking 4. Cooling 5. Baking-2 6. Cooling-2 7. Packing 		Description: Flow Content: Alternate Flow: Non-Sequential Block: Step Details Step:	Step × No × No Cooling Cooling Step × No × No × No	Product: Image: Product Group: Image: ProductGroup Image: ProductGroup

Figure 2 Flow Structure View



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