



# Global Execution Decision System (GEDS)

The Global Execution Decision System (GEDS) bridges the gap between master planning and shop floor execution. The GEDS translates demand or master planning output into detailed site shop floor and shipping instructions. The GEDS is targeted at the operations planning area typically dominated by planners using excel based planning systems to manually translate SCP outputs into execution plans.



Advanced scenario planning and allocation management provides detailed insight into how to best allocate supply and make decisions to meet order commitments.

Serus Corporation is a global pioneer of technology and managed services for companies with distributed or outsourced manufacturing operations.

Serus SaaS solutions enable efficient automated collaboration, execution and decision making across global supply and distribution networks.

Based in Sunnyvale, Calif. with a worldwide development team, Serus customers include companies such as AMD®, Cisco®, Entropic®, Flextronics® and NVIDIA® as well as other leaders in the fabless semiconductor and high-technology manufacturing markets.

## Capabilities Summary:

- Multi Site LEAN Pull based execution planning and scheduling
- Multi Level LEAN Inventory Buffer Optimization
- Actuals based Lot & Wafer level WIP planning
- Cost and Margin Projections linked to individual inventory units and orders
- Obeys detailed constraints (Resources, Freight Caps, Start Constraints, Cycle Time, etc...) and provides tradeoff analysis
- Considers N-Level supply chains, N-Level distribution networks, network BOMs, alternate components, alternate processes, alternate equipment and multi level binning and downgrading.
- Multi Objective: Minimize inventory, maximize OTD, minimizes yield loss, minimizes downgrading, etc...
- Auto generates material, lot and unit level instructions

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### Key Features

- Alternate Sourcing / Alternate Input Parts
- Plan to Customer Commit Date and optionally plan to pull in to meet Customer Request Date
- Time Phased Yields
- Time Phased Capacity Constraints
- Lot Size Constraints
- Time Phased Safety Stock
- Ability to calculate optimal safety stock levels
- Considers Material Receipts against Open POs
- Material (Substrate for example) Planning
- Use all WIP and alternates before generating new starts
- Optimizes Binning & Downgrading
- Multi Level Binning
- Considers M:N BOMS
- Rapid re-plan and scenario planning workbench
- Planning run controls and persistent run scenarios for what if scenario planning
- Scenario to Scenario comparison reports
- Planning dashboard
- Configurable Supply and Order Alerts
- Provides root cause of Lateness and lot, resource and material level
- B2B Release of POs or Starts Instructions to Suppliers
- Integration of Starts Instructions and Purchase Orders
- Of the shelf integration adaptors to ERP Order Management Systems
- **Key reports include:**
  - Lot Starts Plan
  - Wafer Starts Plan
  - Ship and Cross Ship Plan (by Lot and by Part)
  - Starts & Outs Summary
  - Supply Demand Match
  - WIP and FG Lot to Order Pegging
  - On Time Delivery
  - Order Lateness Analysis to lot and equipment level
  - Plan Resource Usage & Capacity Analysis
  - Material Requirements Plan
  - Projected Margin
  - Projected Revenue
  - Projected Inventory Levels
  - Automatic broadcast of reports to email recipients
  - GUI driven report customization user and user group

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To request a demo or detailed information, please email at: [serus.sales@serus.com](mailto:serus.sales@serus.com) or visit our website: [www.serus.com](http://www.serus.com)