Infor CloudSuite Industrial (SyteLine)

Planning

LogicData®

Advanced Planning and Scheduling (APS)

To meet your lean manufacturing goals—to do much more with much less—lean planning capabilities are vital. Planning must focus on customer demand today, pulling to the customer due date and synchronizing the flow of material and capacity accordingly. Infor CloudSuite Industrial (SyteLine) APS is a powerful solution that synchronizes the use of work centers, inventory, resources, and supply with customer orders.

With CloudSuite Industrial APS, you can rely on a solution that is built, serviced, and managed by manufacturing professionals who understand your specific requirements — the need for processes to flow smoothly and without mistakes, unnecessary steps, wasted resources, and waiting downstream because upstream activities are late. This solution helps you meet this goal by providing seamless advanced planning capabilities, increasing your on-time performance and throughput while reducing inventory and operating costs.

- *Greater visibility in planning* — Our solution provides exceptional visibility into the lean manufacturing plans it creates. You get a continuously visible plan for each order, so every order "knows" the jobs and POs it needs, and every supply "knows" the demand it supports. You also gain new insight into your inventory and your resources (machines, operators, work centers, cell, and facility utilizations).

- *"What-if" capabilities* — The "what-if" capabilities of the CloudSuite Industrial APS engine let users determine the impact of decisions. For example, you can insert a high priority order into your current production plan, add overtime hours, or outsource specific components. The system instantly determines which customer orders will be affected and how delivery timeframes will change.

- *Freeze schedule*

Alternative Summary APS

Alternative: 0

Analysis Forms

Demand Summary
Inventory Profile
Component Shortages
Supply Usage
Resource Group Bottlenecks
Resource Group Load Profile
Consolidated Plans
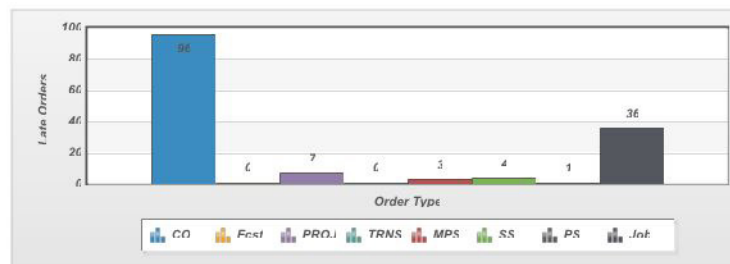
Reports

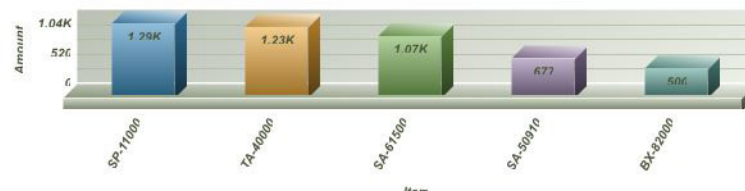Component Shortages Report
Supply Usage Report
Item Bottlenecks Report

Plan Forms

Resource Group Plan
Resource Gantt Chart

Late Orders by Order Type

Top 5 Shortage Amounts

147 Late Orders

33 Mfg Item Shortages

80 Purchased Item Shortages

6 Resource Group Bottlenecks

16 Item Bottlenecks

Material Requirements Planning (MRP)

Infor CloudSuite Industrial Material Requirements Planning (MRP) module assists you in managing the balance between supply and demand. MRP is a mode of planning that plans requirements in order by the lowest level in which the item appears in a bill of material. That is, it plans all end items first, then all items at the next level, and so on, backward planning each requirement from the requirement's needed date to the item's lead time and batching together requirements needed at the same period of time.

Unlike APS, MRP does not consider routing times, resource capacity, or shifts. The responsibility rests with you, the planner, to make sure your shop floor has the available capacity to work the plan. MRP generates planned orders and exception messages to help you implement an accurate plan. MRP helps reduce inventory, increase manufacturing productivity, and ultimately, facilitates cash flow.

- Master Production Schedule (MPS) allows you to control production of key end items to help you protect your schedule from fluctuations in order-based demand (forecasts, customer orders, parent job orders, etc.). MPS is a manually created, anticipated build schedule for an item. You create it based on your expectations of demand and your estimation of resource capacity.
- Explode all assembly schedules into component requirements.
- Consume the forecast with actual orders as they are received.
- Automatically create purchase orders, jobs, or transfer orders with Material Planning Workbench.
- Run MRP for all sites or individual sites
- Define a source per part - manufactured, purchased or transferred to define sourcing by site.
- Utilize Available-to-Promise.
- View exception messages when exceptions occur, such as on-hand quantity drops below a safety stock, or when a planned receipt is no longer needed (or needs to be moved in or out in time).
- Determine the job orders and purchase orders you must generate and release for a given item to be available when needed with Order Action Report.
- Replicate MRP planned transfer orders to the supply sites in your multi-site environment.
- Peg each supply against demand using the Pegging Display form.

Material Planner Workbench ×

View:	Purchase Order ▾	
User ID:		
Planner Code:		
Description:		
Buyer:		

	Unit Cost:	Lead Time:
Primary Vendor:	0.00	
Alternate Vendor:	0.00	
Difference:	0.00	

- Summary
- Items
- Time Phased
- Planning Detail
- Demand
- Material Transactions
- Demand Summary

Process Through Date: [ ] 📅   **Process Through**
Reset Process   **Generate Orders**

Filter
◉ Today's Orders   ○ This Week's Orders   ○ All Orders

Process Line		Item	Description	Fixed Lead Time	Release Date Order	Required Qty	*Due Date	Vendor	Manufacturer	Manufacturer Nam
◆ 1	○	FL-42000	Diesel Fuel Tank		2 1/8/2016	1.00	1/12/2016		2	
◆ 2	○	FL-42000	Diesel Fuel Tank		2 1/8/2016	1.00	1/12/2016		2	
◆ 3	○	FL-42000	Diesel Fuel Tank		2 1/8/2016	1.00	1/12/2016		2	
◆ 4	○	FL-42000	Diesel Fuel Tank		2 1/8/2016	1.00	1/12/2016		2	
◆ 5	○	FL-56300	Battery, Heavy Duty - 630		2 1/8/2016	1.00	1/12/2016		8	
◆ 6	○	FL-57200	Battery, Ultra Hi Performance - 720		2 1/8/2016	1.00	1/12/2016		8	
◆ 7	○	FL-57200	Battery, Ultra Hi Performance - 720		2 1/8/2016	1.00	1/12/2016		8	
◆ 8 ▸	○	FL-57200	Battery, Ultra Hi Performance - 720		2 1/8/2016	1.00	1/12/2016		8	

MRP generates planned orders and exception messages to help you implement an accurate plan that reduces inventory, increases manufacturing productivity, and ultimately facilitates cash flow.

CloudSuite Industrial (SyteLine)

Projects

If you are a project-based business or a professional services firm, Infor CloudSuite Industrial offer a solution that will have you managing your projects with ease and accuracy. It's time for you to take advantage of features that unite your project managers with integrated data for capturing costs, maintaining contracts and projects, handling long lead-times, and delivering on-time complex projects.
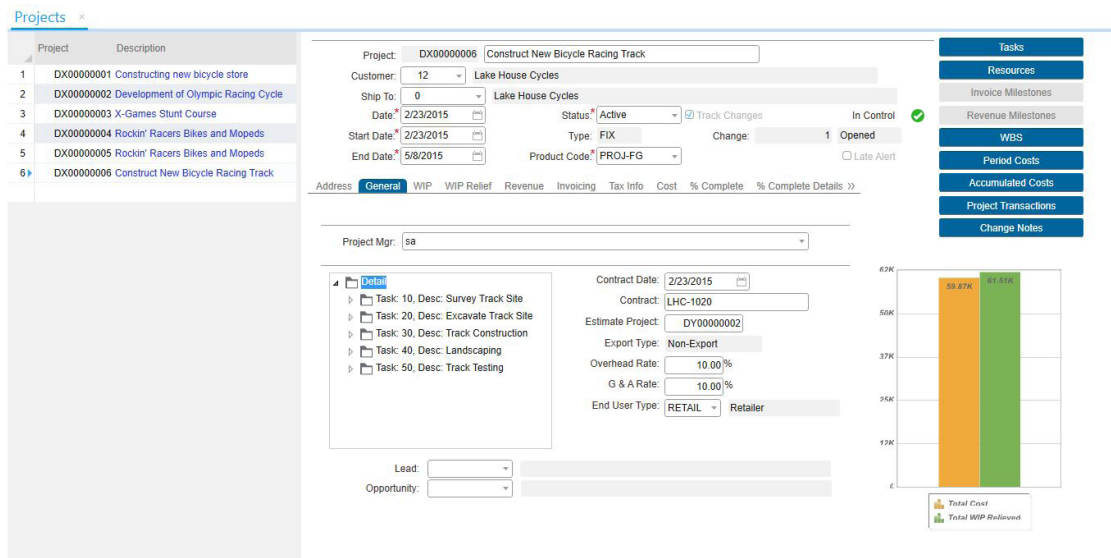
Your project-oriented customers need complex goods built to specification and delivered within budget. Your project managers need real-time integrated tools to track revenues, expenses, and profitability.

Project Management automates workflow, increases efficiency, and, most importantly, promotes customer satisfaction. This solution facilitates teamwork and encourages the exchange of information.

- User-defined activity tracking
- Full interface to manufacturing, purchasing, accounts payable, accounts receivable, order entry, inventory, payroll, and general ledger
- User defined project types and cost codes
- Multi-level percent to complete analysis
- Revenue recognition by milestones
- Invoice milestone billing
- Invoice and Revenue milestones in different currencies
- Retention invoices
- Microsoft Project interface (import/export)
- Work Breakdown Structures
- Budget by period
- Labor and expense reporting
- Shipping
- Late Alerts on Projects, Project Tasks, and Project Resources to alert managers about scheduling problems
- Out of Range (Schedule or Cost Code Variance) Indicators by Project
- Grid view of Project Transactions
- Project Change Tracking

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Scheduling

The CloudSuite Industrial Scheduler calculates the dates and times to work on a subset of existing orders - those manufacturing orders that you need to complete in the near future. You can run the schedule over any horizon: a shift, day, week, month, etc. However, you will usually run it for a one-day horizon, and you will usually run it each day.

The Scheduler adjusts operation start and end times, suggests operation sequences, and reports changes in inventory levels. It also generates summary information (such as job performance) you can view in reports and graphs. The Scheduler processes individual operations for any released jobs within the defined time horizon based on their routing and setup, run, and move times.

- Schedule planned orders generated by MRP or APS, firm jobs, working estimate jobs, planned estimate jobs, production schedules.
- Schedule jobs forward in time.
- Schedule resources to perform operations.
- Utilize scheduling shifts, holidays, resources, resource groups, departments, and work centers
- Prioritize jobs by setting sequence and selection rules
- Identify late jobs and their causes using the Scheduler output analysis forms or Analyzer
- Runs automatically in the background queue
- View capacity and schedule graphically
- Schedule analysis by exception
- Resource bottleneck analysis forms
- Event-based scheduling

Resource Group Load Profile - Scheduler

Resource Group:	DRL-10-MRG1	Start Date:	11/17/2015	Alternative:	0
	Drilling Operations (Machine 1)	Intervals:	5 Weeks		
Number of Members:	1	☑ Group Allocations Only			

Utilization

● Utilization ○ Backlog

	Interval Start	On-shift Hours	Setup Hours	Run Hours	Backlog Hours	Total Load Hours	Utilization
1 ▶	11/17/2015	34.73	3.00	21.72	0.00	24.72	71.16
2	11/24/2015	24.00	0.00	24.00	235.38	24.00	100.00
3	12/1/2015	40.00	0.00	40.00	211.38	40.00	100.00
4	12/8/2015	40.00	0.00	40.00	171.38	40.00	100.00