

Infor SyteLine (CloudSuite Industrial) *Engineering*



LOGICDATA®

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SyteLine (CloudSuite Industrial)

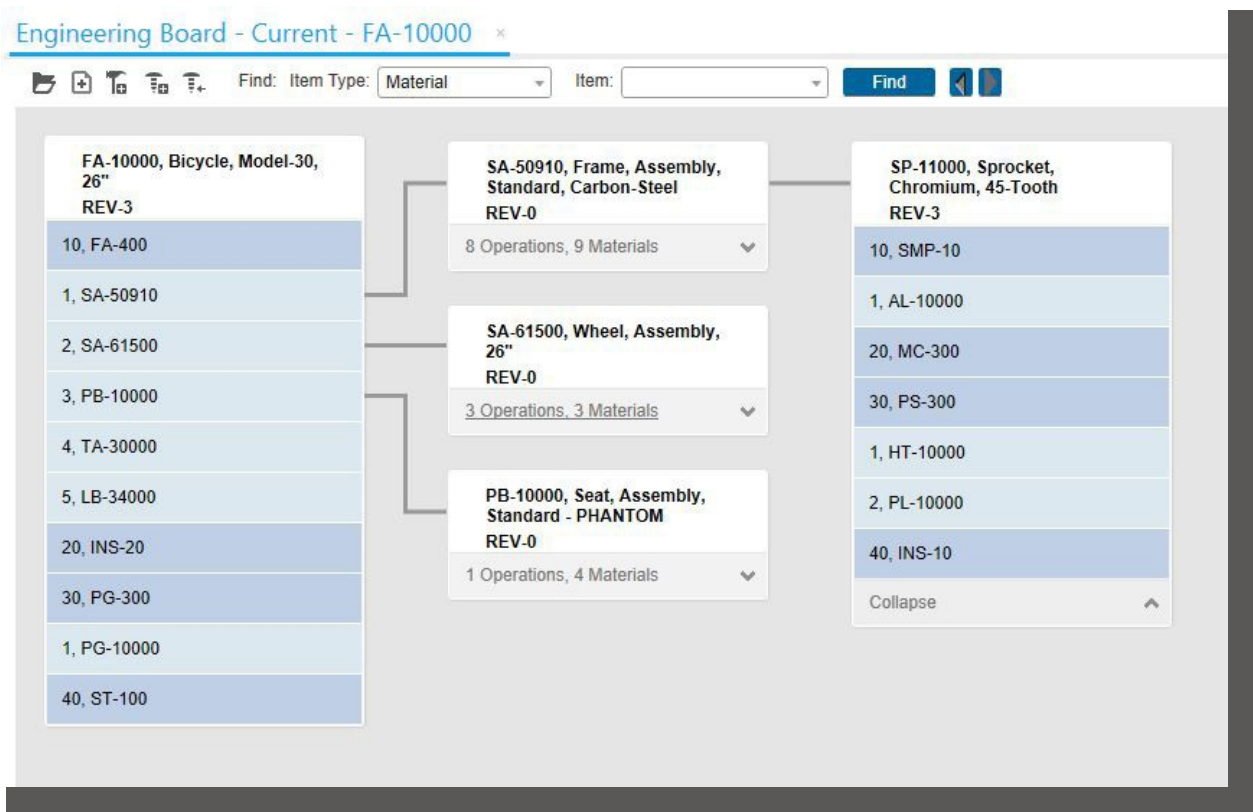
Bills of Material (BOM)

SyteLine supports the creation of Bills of Materials for manufactured parts. A BOM is the set of materials needed to complete each of the operations. It can be multi-level, meaning one of the materials required for operation XYZ is a subassembly that has its own routing and BOM.

Changes to Bills of Materials are automatically captured at the time a job is released. You can create a new BOM by copying it from another inventory item (which uses the current routing and BOM), another job, estimate job, or a production schedule item or release.

- Create both the routing and BOM on one screen using Engineering Workbench.
- Copy BOMs from jobs, items, estimates, or production schedules.

- Assign fixed and variable overhead rates to materials.
- Maintain reference information (bubble number, reference designator, assembly sequence).
- Define alternate BOMs.
- Set items to back flush.
- Enter the percentage of scrap expected for use with planning or purchasing.
- Material Use-Up Report.
- Effectivity and obsolescence dates.
- Phantom Items.
- Non-inventory items.
- Where used.
- CAD BOM import.
- Compliance tracking.



Engineering Workbench

View: Current Item: FA-10000
Bicycle, Model-30, 26"
Revision: REV-3
Product Code: FG-100 Family Code: FG-30

Operations

Operation	WC	WC Description	Use Fixed Schedule	Fixed Sched Hours	Run-Hours Basis (Machine)
1	10 FA-400	Final Assembly Area	<input type="checkbox"/>		0.00 Mch Hours/Pc
2	20 INS-20	Inspection Center	<input type="checkbox"/>		0.00 Mch Hours/Pc
3	30 PG-300	Outside Packaging	<input checked="" type="checkbox"/>		168.00 Mch Hours/Pc
4	40 ST-100	Warehouse Staging	<input type="checkbox"/>		0.00 Mch Hours/Pc

Materials

Operation	Seq	Item	Material Description
1	10	1 SA-50910	Frame, Assembly, Standard, Carbon-Steel
2	10	2 SA-61500	Wheel, Assembly, 26"
3	10	3 PB-10000	Seat, Assembly, Standard - PHANTOM
4	10	4 TA-30000	Handle-Bars, Upright
5	10	5 LB-34000	Tool, Assembler-Wheel
6	30	1 PG-10000	Outside, Packaging

Change Sequence

You can create a new BOM by copying it from another inventory item (which uses the current routing and BOM), another job, estimate job, or a production schedule item or release.

SyteLine (CloudSuite Industrial)

Estimating

SyteLine Quoting and Estimating capabilities allow you to create professional and comprehensive quotations and turn these quotes into sales orders. You can create Estimates quickly and easily by copying from another Estimate, an existing work order, or a Bill of Material, then modifying the new Estimate to match the customer's specifications.

SyteLine computes a cost estimate that includes labor, material, burden, and outside services. When awarded a contract, simply create both a sales order and a work order from the Estimate. Both implementations let you track events that occur during the Estimating process and can keep all documentation involved attached to the Estimate.

- Engineering sandbox development.
- Quoting and cost analysis.
- Copy an estimate from another estimate, a work order, or bill of material, and then make modifications, as necessary.
- What-if scheduling.
- Pricing tables.
- Multiple price breaks.
- Estimate status to reflect Customer acceptance.
- Estimates quick entry form.
- Estimate response form for customers.

Estimates Quick Entry

Estimate: DE00000002 Status: Quoted Quote Date: 8/18/2014
Customer: 1 Coordinated Manufacturing Expiration Date: 9/17/2014
Ship To: 1 Coordinated Bicycles - North Salesperson: GIB
Prospect: Taken By: Jim
Opportunity: Total Price: 1,540.92

Estimate

Quick Response Form
Quick Worksheet
Generate Document

Line

Source
Get CTP
Reprice
Configure
Printing Estimate

Line	*Item	Customer Item	Item Description	Qty Ordered	*U/M	Unit Price	Extended Price	Net Price	*Due Date	Status
1	1 FA-10000	XRT-001XT	Bicycle,Model-30,26"	1.00	EA	555.22285	555.22	524.69	9/16/2014	Quoted
2	2 BK-27000-0005		Bicycle,Customized,27"	1.00	EA	800.00	800.00	800.00	9/16/2014	Quoted
3	3 CP-10000		Seat,Padded	1.00	EA	12.25	12.25	11.33	9/16/2014	Quoted
4	4 MB-10000		Bicycle,Model-200,Mountain,Black	1.00	EA	238.00	238.00	238.00	9/16/2014	Quoted

SyteLine lets you track events that occur during the Estimating process and can keep all documentation involved attached to the Estimate.

Routings

SyteLine supports the creation of routings for manufactured parts. A routing is a group of operations, or steps which must be performed to assemble an item. In SyteLine, Routings must be created first and Bills of Materials (BOM) are linked to the operations where they are consumed.

Routings are used for the planning, scheduling, and costing of manufactured items. Changes to Routings are automatically captured at the time a job is released. You can create a new routing by copying it from another inventory item (which uses the current routing and BOM), another job, estimate job, or a production schedule item or release.

- Create both the routing and BOM on one screen using Engineering Workbench.
- Copy routings from jobs, items, estimates, or production schedules.
- Define your production standards by pieces/hour, hours/piece, fixed hours.
- Support Outside Service routing steps.
- Capture move, queue, setup, and finish times.
- Assign fixed and variable overhead rates.
- Unlimited notes to operations.
- Resource planning available.

Current Operations ×

Operation	Start
1	10
2	20
3	30
4	40

Item: FA-10000
Bicycle, Model-30, 26"

Alternate ID: Current

Operation: 10 Shared
WC: FA-400 Final Assembly Area

Standards Resources Costs

Hours

Use Fixed Schedule
Fixed Sched Hours: 0.00

Machine Hours per Piece 0.00
 Pieces per Machine Hour
 Labor Hours per Piece 0.30
 Pieces per Labor Hour

Sched Driver: Labor
Run Duration: 0.30000
Batch Definition:
Yield: 100.00
Seconds Per Cycle: 0.0000
Formula Material Weight: 0.00

Move: 1.00
Queue Time: 8.00
Setup: 1.00
Finish: 0.00
 Use Offset Hours
Offset: 0.00

Effective Date: 10/26/2014
Obsolete Date:
 Control Point
Backflush: Labor

Materials
Copy Routing BOM
BOM Import Builder
Setup Matrix

You can create a new routing by copying it from another inventory item (which uses the current routing and BOM), another job, estimate job, or a production schedule item or release.

SyteLine (CloudSuite Industrial)

Costing

The Cost Accounting features within Infor CloudSuite Industrial support both actual costing and standard costing, providing you with the flexibility to choose the Cost Type and Cost Method that works best for you.

CloudSuite Industrial captures costs as changes occur, ensuring up-to-date and accurate costing. You can also link purchases directly to existing work orders through the purchasing or manufacturing module, earmarking costs specific to the appropriate job.

Additionally, you can link work orders to specific customer orders, allowing you to know the true margin earned for each customer order. Both implementations automatically charge work order costs for customer orders to the Cost of Goods Sold upon shipment to the customer.

- Costs by Item or Item Warehouse.
- Cost methods include Standard, Actual, LIFO, FIFO and Lot Specific.
- Update stockroom and work-in-progress (WIP) inventory records in real-time automatically.
- Link POs to work orders to capture costs for a job.
- Link work orders to customer orders to measure true margins.
- Drive costs by work center and department.
- Break out job tracking and costing into five cost buckets.
- Create and post journals to the General Ledger quickly and easily.
- What-if costing analysis.

The screenshot displays the 'Item Costs' window for item FA-10000. It includes fields for Item, Description, Quantity On Hand, Revision, and U/M. Below these are tabs for Cost Detail, Cost Maint, Compare, Std Cost, and Items. The main table shows 'Unit Costs' with columns for ASSEMBLY and ACCUMULATED, and rows for Labor (Setup, Run), Type (Material, Tool, Fixture, Other), and Overhead (Fixed, Variable, Outside). To the right, 'Cost Totals' are listed, including Assembly Subtotal, Assy Matl Subtotal, Assembly Total, and Accumulated Total.

		ASSEMBLY	ACCUMULATED	Unit Costs	
Labor	Setup:	0.30	3.00	Current Unit Cost:	254.17238
	Run:	9.00	48.75	Unit Cost:	254.82334
Type	Material:	4.18	41.855		
	Tool:	0.02454	0.03374		
	Fixture:	0.00	0.025		
	Other:	0.00	0.0823		
Overhead	Fixed:	9.26505	75.50317	Assembly Subtotal:	34.33464
	Variable:	9.26505	75.50317	Assy Matl Subtotal:	219.83774
	Outside:	2.30	9.42	Assembly Total:	254.17238
				Accumulated Total:	254.17238

SyteLine captures costs as changes occur, ensuring up-to-date and accurate costing.

Engineering Change Notice (ECN)

Use the SyteLine Engineering Change Notices (ECN) form to control and track revisions made to a Bill of Material (BOM) or to the routing of an item. The ECN process is crucial in ensuring high quality, safety, and consistency of products.

- Approve changes before it can be used on Jobs or Estimates.
- Utilize mass replace/delete.
- Enter a priority code to determine the order in which you want to implement the ECN.
- Maintain reason codes.
- Maintain distribution codes for who must be notified of the ECN change.
- Identify what needs to be changed.
- Copy ECN functionality.
- Implement revision control.
- Track ECN and revision history.
- Maintain an audit trail of changes to the ECN record throughout the change process.
- Reporting that will allow you to see the Jobs that are affected by ECNs.
- Maintain a comprehensive audit trail of changes to the BOM and routings.
- Update part/document revision levels automatically upon incorporating changes.

Engineering Change Notice Items

ECN: 4	Status: Complete	Substitute Material
		ECN
Line: 1	Job: - 0000	Status: Approved
Type: Current Operation		Revision: REV-3
Action: Update	Item: FA-10000	Operation: 10
Group:	Bicycle, Model-30, 26"	

Operation	Material	Costs	References
WC: FA-400	Final Assembly Area		Operation Notes <input type="checkbox"/>
Hours			
Backflush: Labor		Move: 2.00	
Fixed Sched Hours: 0.00		Queue: 8.00	
<input checked="" type="radio"/> Machine Hours per Piece		Setup: 1.00	
<input type="radio"/> Pieces per Machine Hour	0.00	Finish: 0.00	
<input checked="" type="radio"/> Labor Hour per Piece		Offset: 0.00	
<input type="radio"/> Pieces per Labor Hour	0.30		
		Effective: 10/26/2014	
		Obsolete:	

Use the SyteLine Engineering Change Notices (ECN) form to control and track revisions made to a Bill of Material or to the routing of an item.



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