



SyteLine (CloudSuite Industrial)

Production Control



LOGICDATA®
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Manufacturing Work Orders or Jobs

SyteLine allows you to use jobs, also referred to as manufacturing work orders, to track specific manufacturing processes, including labor, material, machines, costs, scrap, work in process, and finished goods inventory. A job is a mechanism to launch and monitor production to meet a planned requirement.

Jobs are very flexible and easily changed to meet a specific customer's requirements, providing great detail in cost tracking and analysis. It's also a means to cross-reference production to a specific customer order needing to be tracked in detail. Jobs have their own bill of material and routing structure and are individually released to manufacturing. In addition, job definition for rework order processing is available, providing for recursive item repair use with planning impact basis.

- SyteLine provides several methods of creating and defining a job; you can use whichever method you prefer.
- Use the Material Planner's Workbench to manage the creation of all of your jobs in a single screen.
- Link customer orders directly to jobs.
- Schedule jobs based on finite and infinite forward scheduling.
- Issue materials to a work order or back flush materials automatically based on operation or job completions.
- Validate material availability to determine whether or not a job can be completed on time.
- Review estimated versus actual costs by job.
- Create jobs for By-products, Co-Products or Rework.
- Allows for overlapping operations.
- Outside vendor process.
- Drive costs by work center and department.
- Track all actual (or standard) labor and material, as well as WIP (work-in-process) costs, through a detailed routing.
- Enter transactions manually or post automatically with bar code data collection or back flushing.
- Co-Jobs and Co-Product Jobs.
- Payroll integration.
- Machine-hour reporting.

Production Control

Engineering Board - Job - DJ00000049 - 0000

Find: Item Type: Item:

C DJ00000049-0
FA-10000, Bicycle, Model-30,
26"

10, FA-400
1, SA-50910
2, SA-61500
3, CP-10000
4, CP-20000
5, CP-30000
6, CP-40000
7, TA-30000
8, LB-34000
20, INS-20
30, PG-300
1, PG-10000
40, ST-100

C DJ00000049-1
SA-50910, Frame, Assembly,
Standard, Carbon-Steel

10, PNT-10
1, TA-20000
2, FS-22000
20, PNT-10
25, DRY-10
1, SH-10120
26, INS-20
28, DRL-10
1, DR-35960
2, DR-35660
3, DR-35780
30, AS-500
1, TA-40000
2, SP-11000
3, LB-45000
40, INS-20
50, ST-100

C DJ00000049-2
SP-11000, Sprocket,
Chromium, 45-Tooth

10, SMP-10
1, AL-10000
20, MC-300
30, PS-300
1, HT-10000
2, PL-10000
40, INS-10
Collapse ^

*SyteLine provides several methods of creating and defining a job;
you can use whichever method you prefer.*

Product on Schedules (Repetitive Manufacturing)

SyteLine Production Schedules are typically used when you manufacture the same item regularly — standard products — and do not need precise tracking of actual labor and material costs for every job.

Rather than being required to report all activity to a specific work order, SyteLine Production Schedules allow activities and their costs to be charged to Work Centers. Production Schedules allow you to authorize and release production in a simplified manner and functions as a blanket job order. Production schedules are sometimes referred to as work order-less production.

With SyteLine's Production Schedules, you create production schedules for an entire plant, planner, family of items, or specific customer for a selected time period. You can set up a production schedule for an item with releases for each month of the year; you don't have to create a separate job order each month or each time the item is manufactured.

- Allows manufacturers to be more spontaneous in authorizing production.
- Provides flexibility in making schedule changes.
- Reduce effort in establishing and maintaining production plans.
- Reduce paperwork and system transactions.

- Actual labor and material tracking not required. Instead, after a Production Schedule is created you need only report the item produced and the quantity and the labor and material are back-flushed.
- Charge costs to the items produced in the work center based on the standard bill of material and routing.
- Track the cumulative production for an item in time buckets you choose (daily, weekly, or monthly.)
- Best suited for Make-to-Stock Finished Goods/ Components, and High Volume-to-Order.

Production Control

Production Schedule Items

Schedule ID	Schedule ID Description
1	DM00000002 Mountain Bikes
2	DM00000003 Frames, Carbon-Steel
3	DM00000004 Frames, Carbon-Steel
4	DM00000004 Frames, Carbon-Steel
5	DM00000005 Mountain Bikes
6	DM00000006 Frames, Carbon-Steel
7	DM00000007 Frames, Carbon-Steel
8	DM00000008 Mountain Bikes
9	DM00000009 Miscellaneous
10	DM00000009 Miscellaneous
11	DM00000010 Frames, Carbon-Steel
12	DM00000013 MB-12000
13	DM00000016 MF-50920
14	DM00000018 ZAL-400

Production Schedule Items

Schedule ID: DM00000018 ZAL-400

Status: Released ☒ PS Item BOM Exists

Item: ZAL-400 Revision:

Description: Pump, Bicycle For Whse*: MAIN

Production Schedule Releases BOM View

	Due Date	* Status	Released	Expected	Completed
1	7/23/2015	Released		40.00	40.00
2	7/24/2015	Released		40.00	40.00
3	7/29/2015	Released		40.00	40.00
4	7/30/2015	Released		80.00	80.00
5	7/31/2015	Released		40.00	40.00

Item

Copy To PS Item BOM

PS Item Operations

PS Item Materials

Release

Copy To Release BOM

Release Operations

Release Materials

Component Shortages

With Infor CloudSuite Industrial Production Schedules, you create production schedules for an entire plant, planner, family of items, or specific customer for a selected time period.

SyteLine (CloudSuite Industrial)

Batched Production

Using the SyteLine Scheduler, you can group several potentially different items on different jobs into a batch and process that batch through, for example, an oven or a paint booth. After the batch is processed, the different jobs continue on their own routing. Batching affects only the Scheduler, not the Planner.

Each batch definition describes how batches are formed, including a routing that processes the batched parts. The operations forms include a batch definition field. Any operation on which a batch definition is specified is referred to as the batch operation.

In a jobs or production schedule (PS) routing, an operation (batch operation) references a batch definition when the job or production schedule can be combined with other jobs or production schedules for processing. This causes batches to be formed, based on the rules defined on the Batch Definitions form, and transfers control to the

batch definition routing. At the end of the batch definition routing, the job or PS returns to its original routing and continues processing as normal.

- User-defined or system-created batches.
- Tell the Scheduler how batches should be formed including how jobs/production schedules will be batched together and when a batch will be released to be processed.
- Define operations that use the batch definitions.
- Create user-defined batches which include specific released jobs and production schedule releases.
- Define operations that use the batched production definitions.
- View a summary of batch activity that occurs during a Scheduling run.
- Maintain a list of the characteristics of items that can be separated into batches.

The screenshot shows the 'Batch Definitions' form in SyteLine. The left pane lists batch definitions, with one selected. The right pane shows the configuration for the selected batch definition. The 'Batch Definition' field is empty, and the 'Batch Item' is a dropdown menu. Below these are three tabs: 'Operations', 'Batched Productions', and 'Batch Summary'. The 'Batched Productions' tab is active, showing the 'General' section. The 'Separation Rule' is set to 'All in Same Batch'. The 'Release Rule' is set to 'One Per Job'. The 'Value' is 0, 'Minimum' is 1, and 'Maximum' is 1. The 'Override Review' checkbox is unchecked, and the 'Override Rule' is 'Waiting Time Exceeds Threshold'. The 'Threshold' is 0. The 'Periodic Review' checkbox is unchecked, and the 'Review Interval' is 0.

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Co-Products and By-Products

Many production processes result in more than one stock keeping unit (SKU). These additional materials may be co-products or by-products and SyteLine models both.

A by-product is something that is a residual of or incidental to the production process. You are not in the business of making the by-product, and if you could eliminate it from the process, you would. But since it has value, you need to inventory it. Co-products arise when you create many SKUs with the same job.

SyteLine lets you

- Create jobs that make groups of items, rather than a single item.
- Create co-product mixes.
- Support both actual and standard costs.
- Support production schedules and estimates for by-products.
- Perform lot tracking.
- Assign the cost distribution percentage between material, labor, and machine for each co-product job operation.
- Process job material transactions to record receipt of by-products into inventory.

Co-product Mix x

Co-product Mix	Description
1 ▶ GR00001	Gear Co-Product Mix
2 M000001	Metal Stamp - I Beam
3 P000001	Cell Phone Mix
4 T000001	Tape Mix

Co-product Mix: GR00001

Lead Co-product: * 908 ▼

Co-product	Description	Co-product Quantity
1 ▶ 908	Gear, 8 Tooth	2
2 910	Gear, 10 Tooth	1
3 912	Gear, 12 Tooth	3

SyteLine allows you to model both co-products and by-products.



10800 E Bethany Dr Ste 400
Aurora, CO 80014
(303) 694.4400
www.LogicData.com