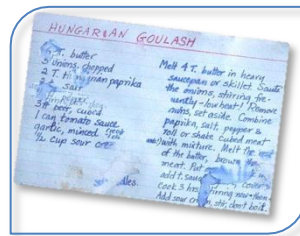




Process Traceability Manager

Product Description



Features

- Automatically generate lot codes at Critical Control Points (CCPs), which are linked to input lot codes
- Track station, operator
- Record data such as weight, temperature, time
- Ensure recipe is followed within allowable tolerances
- Track exceptions to the recipe (e.g. substitutions, recipe development, or approved quantity changes)

Business Benefits:

- Achieve full end-to-end traceability of complex processes
- Ensure GMPs (Good Manufacturing Processes) are being followed
- Automate recording of HACCP data
- Get control of inventory (ingredients, WIP, finished goods)

Closing the Traceability gap

The new Process Traceability Manager ("PTM") is a major architectural upgrade to Carlisle's Symphony™ Manufacturing Execution System that allows for expanded levels of Traceability even with complex internal processes.

Symphony™ has always supported a base level of traceability. If your process is fairly straightforward, the recording of GS1 barcodes at receiving, packaging, and shipping (weighing and labelling) would allow you to trace outgoing product to the incoming ingredients (including packaging lot codes).

But what if your process is more complicated, as in making sausages? You'll still have to record incoming lot codes of major ingredients (meat), minor ingredients (spices), and packaging. But on the production floor, things get more complicated.

Meat is an extremely complex raw material in which a single factor results in a series of interrelated changes and processes. Throughout many varying and intricate operations, an ingenious sausage maker, skilled in his task, has to stimulate those desired structural and chemical changes and processes which lead to conversion of raw meat into a final sausage product that his customers want.

Small-scale sausage production
FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS Rome, 1985

In sausage making, as in many other food manufacturing processes, you may have distinct areas which prepare batches of ingredients or products (e.g. a spice room). These batches are mixed with other ingredients to create new batches. These new batches may require cooking or curing. They may be sent to other stations for processing. They may be held for quality inspection. They may be returned to inventory...

... all these batches, processes, and measurements need to be accurately tracked for **full traceability**, as well as for **getting control of your ingredient inventory, your WIP inventory, and your finished goods inventory**.



Introducing the new Symphony™ Process Traceability Manager

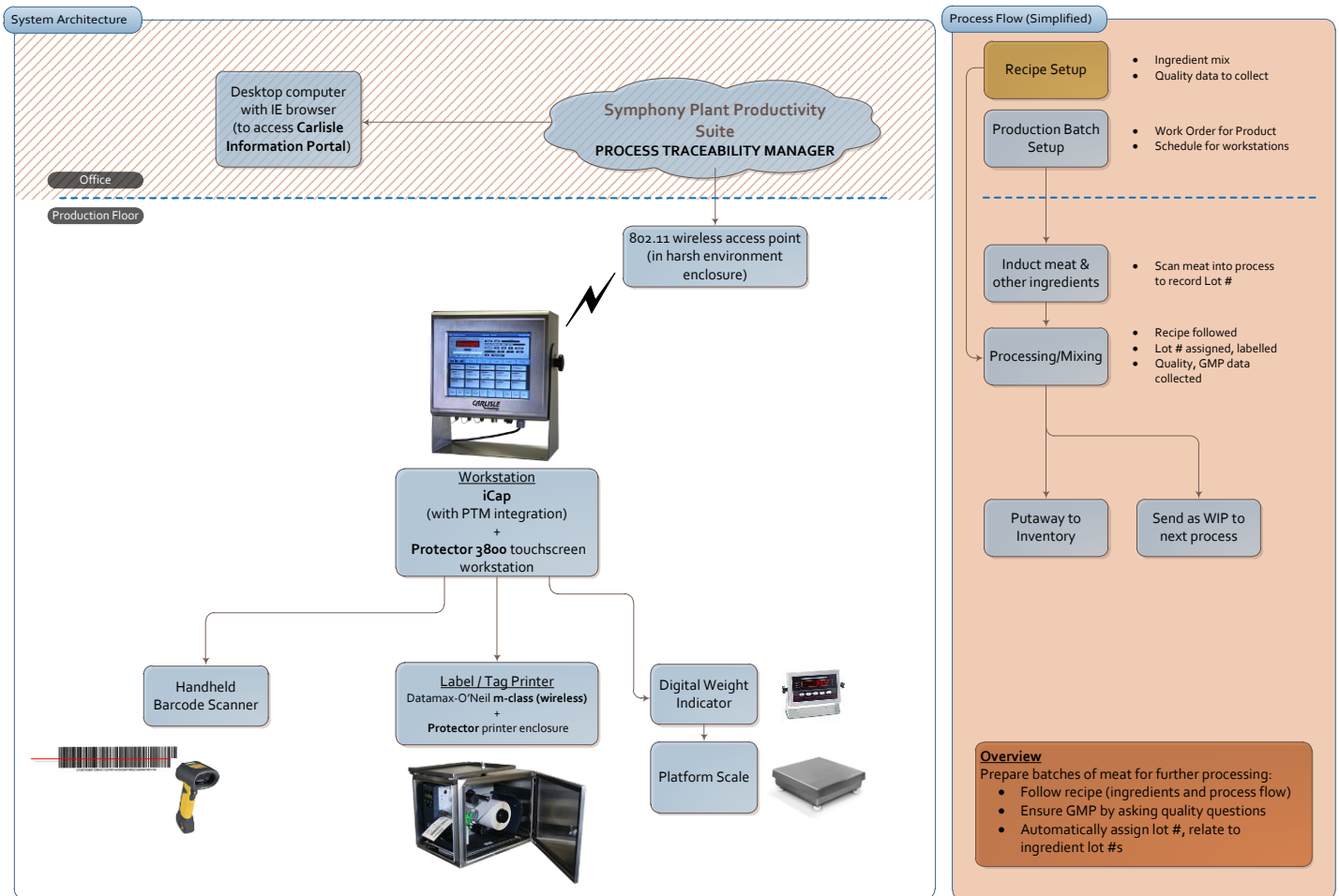
Symphony PTM connects and co-ordinates the various production stations on your plant floor. Rather than being point solutions for weighing, labeling, and WIP tracking, these stations (running Carlisle's iCap™ version 2+) are part of a unified **"Recipe Execution"** system.

A **Recipe** is more than a list of ingredients to Symphony. It is a series of steps that are taken to ensure that your product is built with consistent quality.

These steps can be executed on particular stations, in a prescribed order. Quality control steps can be added, such as checking temperatures, recording operator feedback, and of course measuring weights.

» *How it works:*

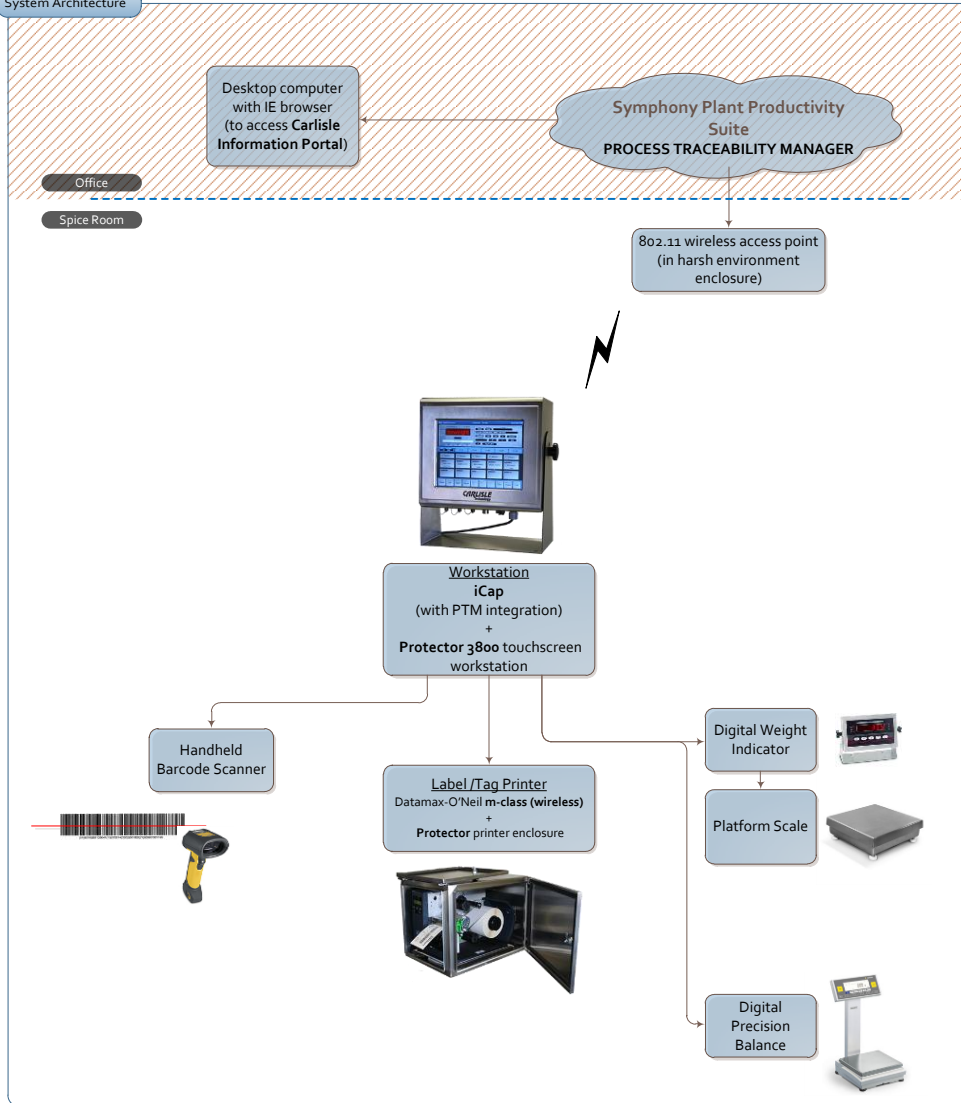
Meat Batching



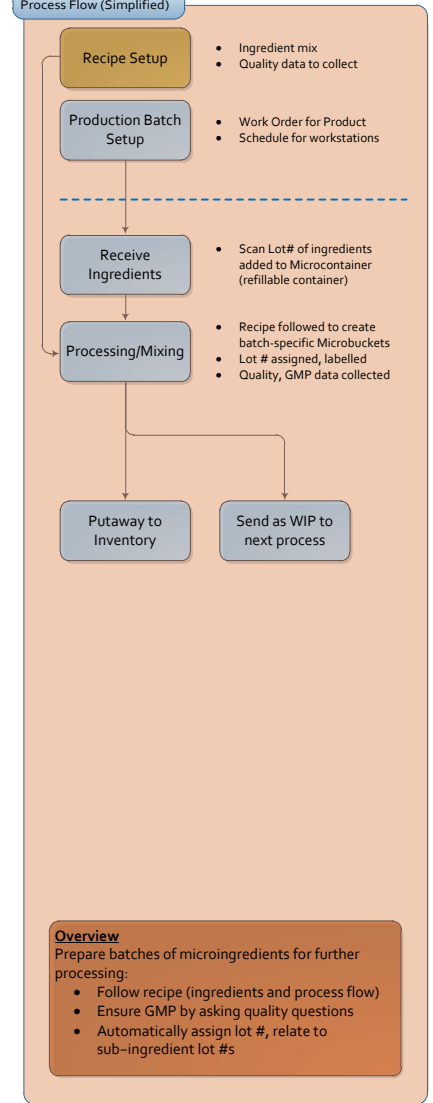


Microingredient Batching

System Architecture

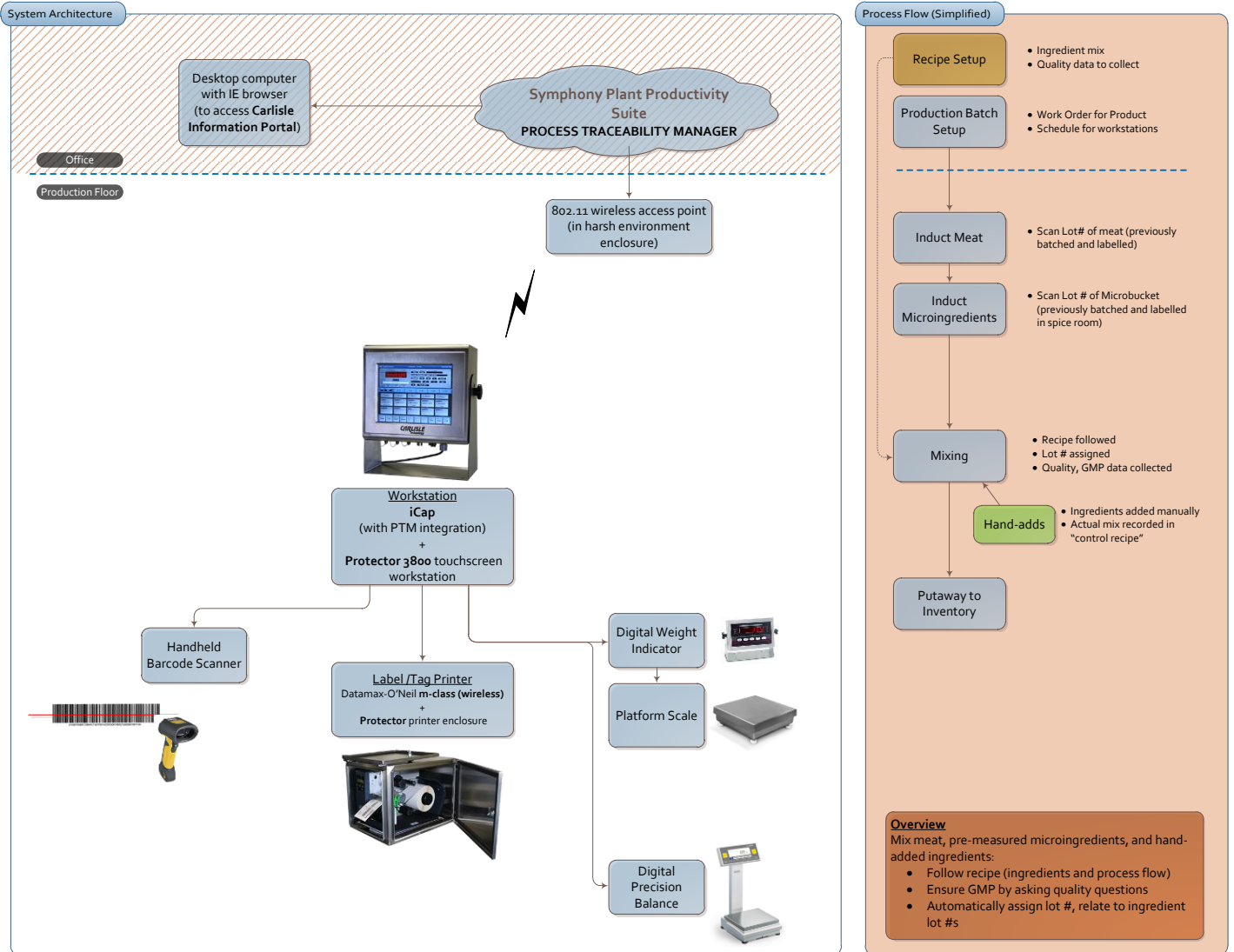


Process Flow (Simplified)





Meat Induction / Hand Adds





Technologies

- Microsoft SQL 2008
- Microsoft .NET
- GS1 globally unique barcodes



Partnering with Carlisle

With 25 years of experience installing successful in-plant solutions for the North American food processing industry, we understand the business.

We provide configurable, turn-key solutions to address *productivity, visibility* and *traceability*.

Customers large and small choose Carlisle when reliability is critical. We design robust software, and complement it with 24/7 service expertise to keep your plant running.

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