



# LO1 Tracker

**Process control,  
work-in-process inventory, and  
manufacturing control at your  
fingertips, 24/7, anywhere and  
anytime you have Intranet or  
Internet access.**

# Information collected by LO1 Tracker allows you to:

- ✦ Control costs, improve yields, and ensure schedules and quotas are met
- ✦ Track which raw material lot was used to produce each final product
- ✦ Know the value of WIP inventory at any point in time
- ✦ Easily reconcile raw material in versus finished products out
- ✦ When appropriate, locate where scrap resulted, identify how much was able to be reused or reworked, and its value
- ✦ Validate and improve processes and ensure Regulatory Compliance

# LO1 Tracker

## An Immediate Solution

- ★ LO1 Tracker is scalable for small to large clients to divisions of major corporations
- ★ Readily adapted and configured to your environment – pharmas, biotechs, medical devices
- ★ Includes a multi-language capability for international applications
- ★ Easy to validate – requires no special workstation software



# LO1 Tracker

## Improve Performance and Results

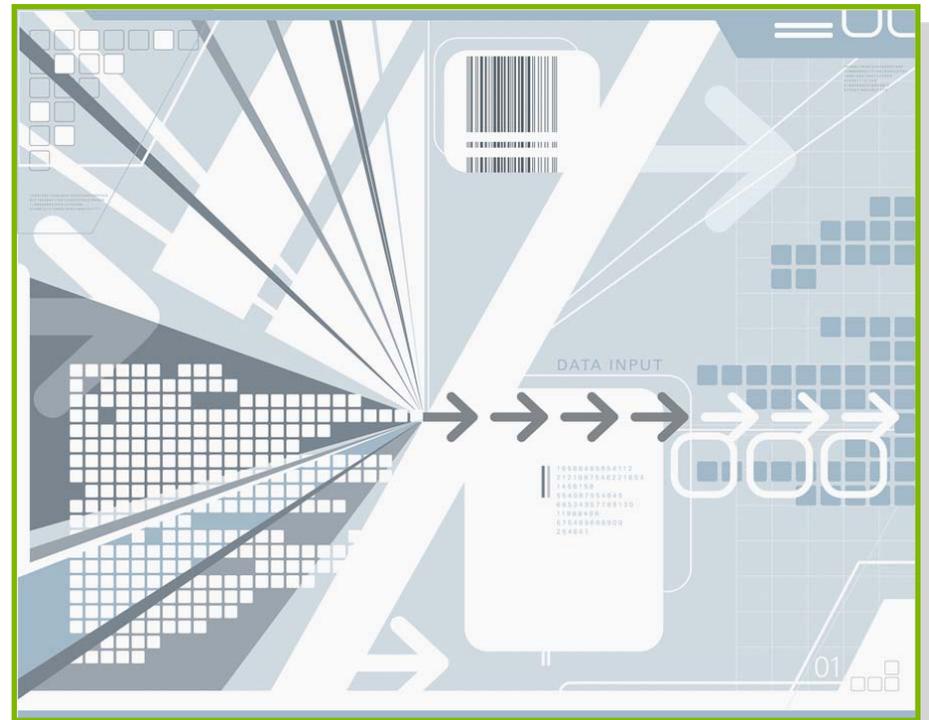
- ★ LO1 Tracker uses Automatic Identification Data Capture (AIDC), incorporating standard barcode technology and/or RFID, to transform data into critical information you need to **significantly improve performance and results.**



# LO1 Tracker

## Improve Performance and Results

- ★ With LO1 Tracker, you will gain improved performance and results through:
  - ★ Streamlined Processes
  - ★ Process Surveillance and Control
  - ★ Quality Assurance
  - ★ Regulatory Compliance



# LO1 Tracker Process Insight

- ★ Data is collected throughout a predefined process and managed within a unique centralized information system, LO1 Tracker.



# LO1 Tracker Process Insight

- ★ LO1 Tracker knows exactly where each item should be within your process. It knows when an item has missed a step and if an item has deviated to a location where it should not be: helping you to avoid costly mistakes and assure consistent quality.



# LO1 Tracker Process Insight

- ★ Obtain feedback on performance improvement initiatives
- ★ Determine whether schedules are being met
- ★ Gain insight to determine what to make, how much, and when



# LO1 Tracker

## Real-Time Linkages

- ★ Linkages within the LO1 Tracker database provide for raw materials, processing steps, and finished products to be tracked and traced to provide a complete story of the product throughout the process and its life cycle
- ★ Can exchange data with SAP, JDE, and other ERP systems



# LO1 Tracker

## Innovative Scrap Control & Reconciliation

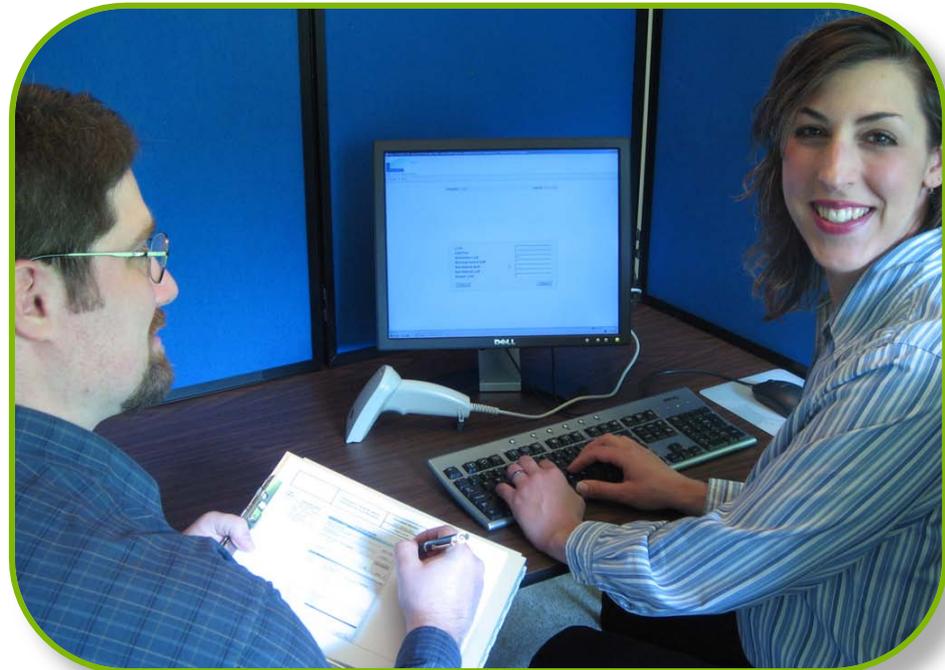
- ★ Unique and innovative scrap control system identifies non-conforming items
- ★ Provides data to identify how a particular scrap item may be reused within the process
- ★ Provides data for material reconciliation
- ★ Enables corrective actions to be made to prevent future quality issues



# LO1 Tracker

## Regulatory Compliant

- ★ LO1 Tracker meets all security and audit trail requirements.
- ★ Provides for complete traceability (FDA, ISO, and European Commission regulations)
  - ★ 21 CFR Part 820 (QSR)
  - ★ Part 210 & 211 (cGMPs)
  - ★ ISO 13485
  - ★ Part 11 (ER/ES)
  - ★ EC Annex 11
  - ★ ISPE GAMP 5



# LO1 Tracker

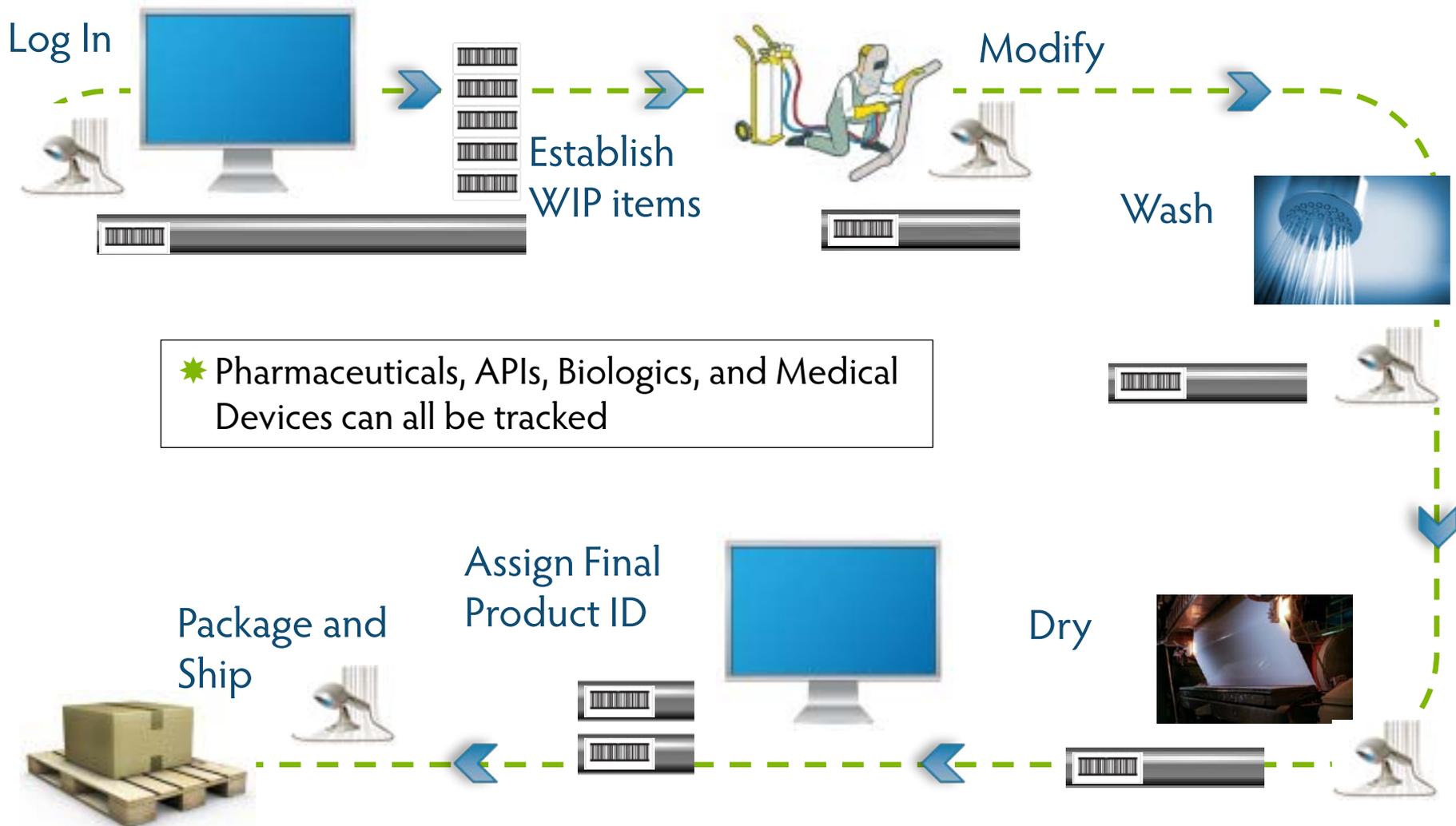
## Regulatory Compliant

- ◆ Within a regulated environment, LO1 Tracker can track all raw materials to the finished product and ultimately to the customer.
- ◆ Validation documentation templates are available for LO1 Tracker.
- ◆ Meets pharmaceutical, medical device and biotech U.S., E.U., CHM, and JMHLW requirements

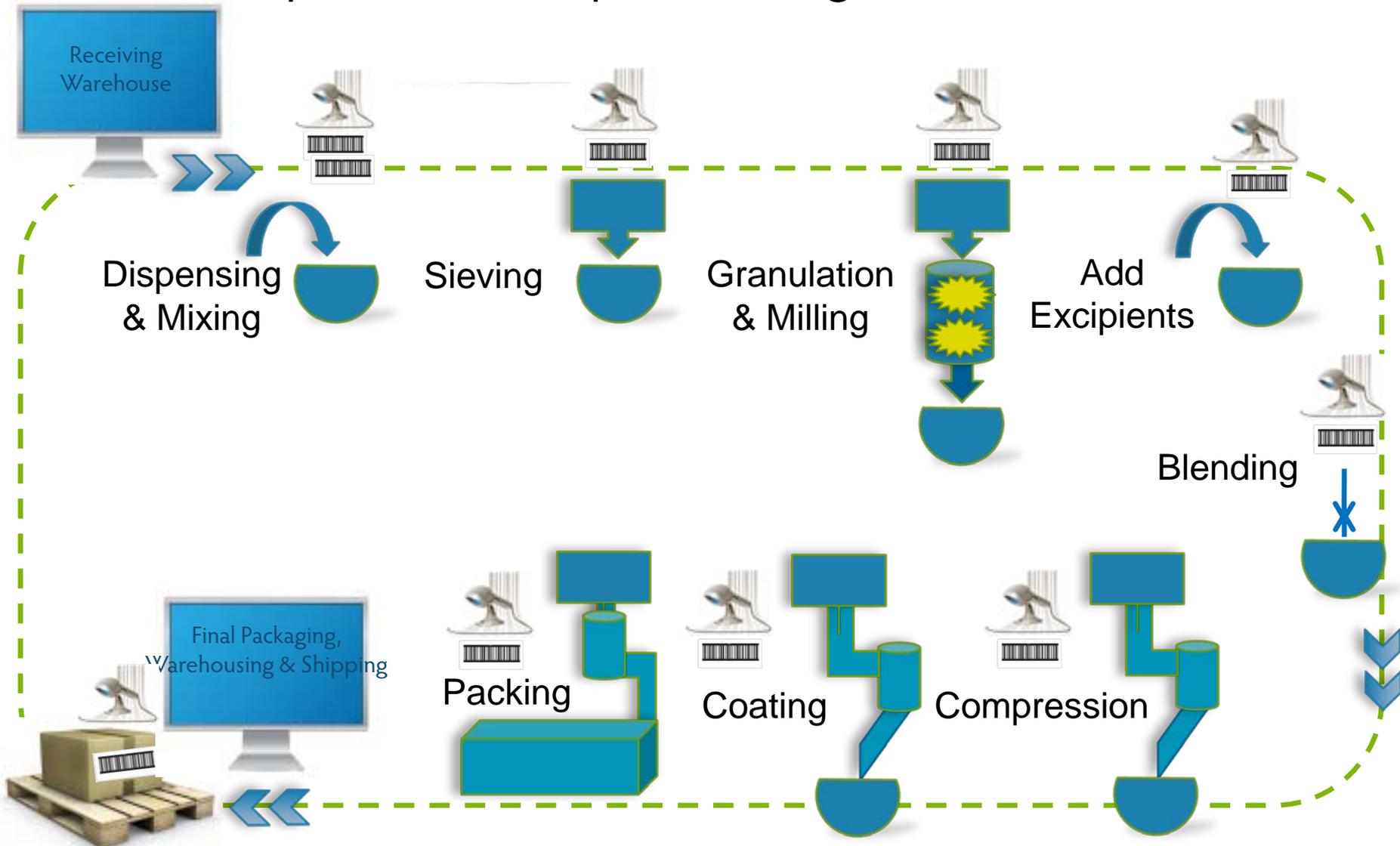


# LO1 Tracker Process Control Capabilities

The following walkthrough will illustrate how easy it is to track processes and WIP inventory using LO1 Tracker.



The following illustrates how easy it is to track a pharmaceutical process using LO1 Tracker.



Each workstation has a unique ID  
and each user has a unique ID.

Log In



Start

Userid

Password

L01 version 2.0.2 © 2007 All Rights Reserved LSSI

The user creates a barcode tag for each work-in-process (WIP) item, lot, and/or step. In this example, LO1 Tracker assigns the WIP items to a sterilization lot and records the raw material lot information for each item launched into the process.



Scan Raw  
Material

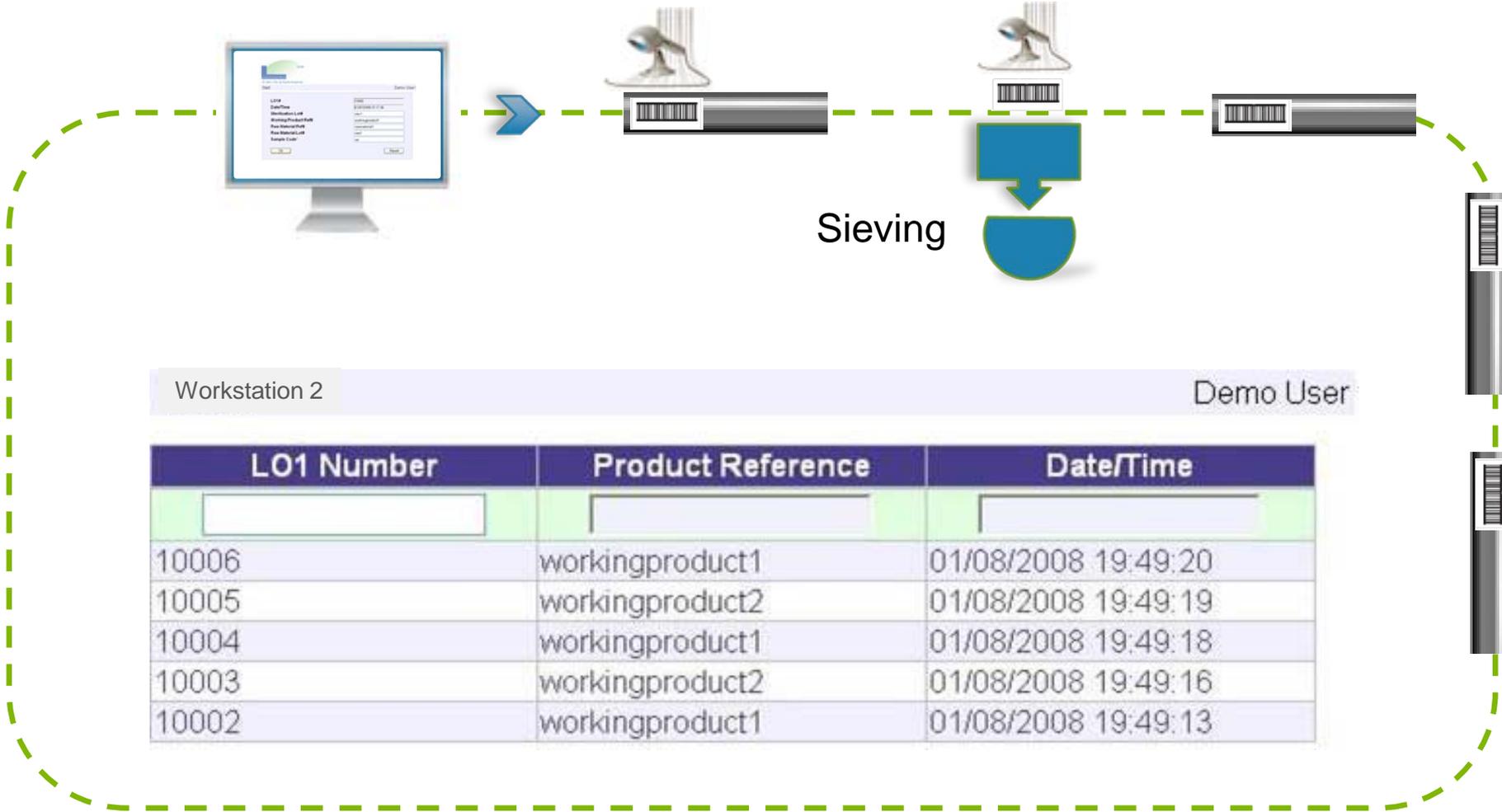


★ The WIP items are entered into a predefined process to achieve the desired Final Product.

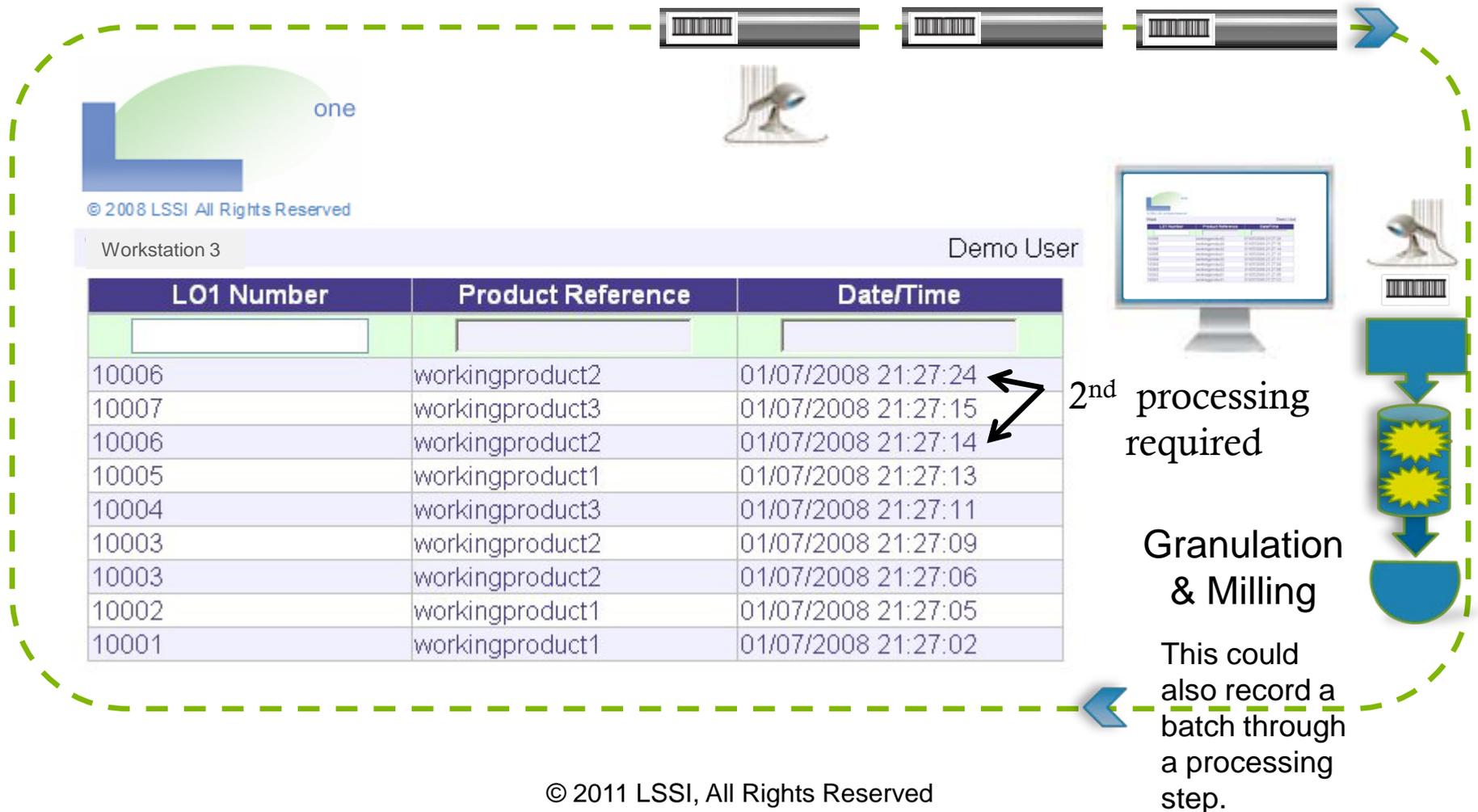
Workstation 1 Demo User

LO1#	<input type="text" value="10002"/>
Date/Time	<input type="text" value="01/07/2008 21:17:36"/>
Sterilization Lot#	<input type="text" value="ster1"/>
Working Product Ref#	<input type="text" value="workingproduct1"/>
Raw Material Ref#	<input type="text" value="rawmaterial1"/>
Raw Material Lot#	<input type="text" value="raw1"/>
Sample Code*	<input type="text" value="qa"/>

Each item entered into the process has a unique barcode that will be captured at each workstation.

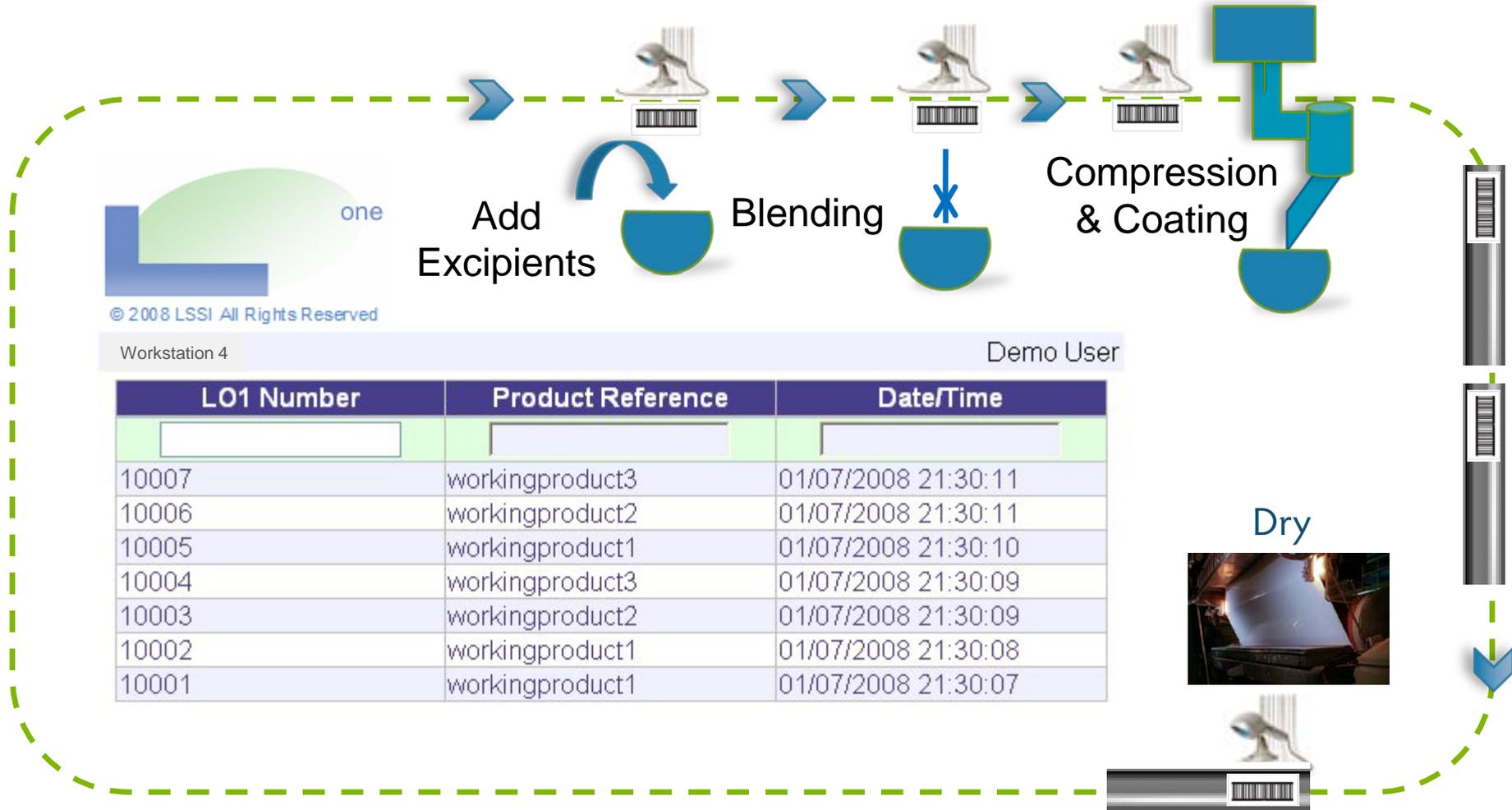


In this example, items are scanned to record that they were processed through a workstation. If a second processing is required, the item is rescanned and then entered back into the process.



... and then on through the next process step.

We configure each process step to meet the client's requirements.



After a WIP item is scanned at the final quality control checkpoint, the types of Final Products that can be made from that WIP item will be displayed. The Final Product(s) quantity created are entered and any scrap quantity is automatically calculated.

Quality Control Demo User

**L01#**

**Working Product Ref#**

**Date/Time**

Final Product#	Final Product L01#		
finalproduct02 <input type="text" value="0"/>			
finalproduct03 <input type="text" value="3"/>	<input type="text" value="10013"/>	<input type="text" value="10014"/>	<input type="text" value="10015"/>

**Reject/Scrap Qty**

**Rejects\***

**Sterilization Lot#**

**Sample Code\***

This also works well for pharma processes and assists with reconciliation.

### Assign Final Product ID



Finally, the products are ready to be packed and shipped.

Pack		Demo User
LO1 Number	Product Reference	Date/Time
<input type="text"/>	<input type="text"/>	<input type="text"/>
10015	finalproduct03	01/07/2008 21:44:32
10014	finalproduct03	01/07/2008 21:44:30
10013	finalproduct03	01/07/2008 21:44:28
10012	finalproduct05	01/07/2008 21:44:27
10011	finalproduct03	01/07/2008 21:44:25
10010	finalproduct02	01/07/2008 21:44:23
10017	finalproduct05	01/07/2008 21:44:11
10008	finalproduct01	01/07/2008 21:43:57



Packing



# How do you measure success? LO1 Tracker!

- ★ Call Life Science Services International to discuss your requirements and how we can provide a solid, proven solution at a price you can afford.

**Life Science Services International**  
**6077 Far Hills Ave #123**  
**Dayton, Ohio 45459-1923**  
**(937) 433-2220 (Dayton Office)**  
**[www.lssi-us.com](http://www.lssi-us.com)**



# Life Science Services International (LSSI)

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