

Scale House automation: try it on feature-6

Trucks are weighed in and out with no clicks: the camera reads the plate, the draft fills from the truck's last ticket, tare and gross are taken once the scale settles, the ticket is posted and printed, and the light turns green. A test site with emulated scales, cameras and lights is ready, so you can watch it work from your browser.

Scale House	app.feature-6.bulksource.com , login <code>demo.yard@example.com</code> / password in the message, site Demo Quarry
TestYard	yard.feature-6.bulksource.com , login <code>demo</code> / password in the message
PDF	This guide as PDF
Decisions	Decision log : what we decided while building it

TestYard is a quarry site in your browser. It plays the site's devices (three truck scales, a plate camera and a traffic light on each) and runs the BulkSource Connector on our server, so nothing is installed on your computer. You drag trucks along the road there; the Scale House screen reacts as it would on a real site.

1. Set up a scale for automation

Demo Quarry is already set up. On another site: **Account settings** > the scale's name.

Behavior Settings

1. Auto-populate Customer, Order, Project, Product: **Truck's last load at this site** or **across all sites**.
2. **Truck's last draft ticket first** on: a truck coming back to weigh out gets its own draft.

Detail Scale Information

- BulkSource Connector Setup
- Custom Field(s)
- Ticket Template

BulkSourceConnector App

This application is required for BulkSource to communicate with your scales and printers. Please download and install it on all computers that will be running the BulkSource Scale House Module.

The app is unavailable

Behavior Settings

Direction *

☐ Auto-populate (truck's load) ☒ Outgoing ☐ Incoming ☐ Force user to select

Delivery Method *

☒ Auto-populate (from order) ☐ Force user to select

Auto-populate Customer, Order, Project, Product based on *

☒ Truck's last load at this site ☐ Truck's last load across all sites ☐ Force user to select

Force User to select is not available while Inbound automation is on.

☒ Truck's last draft ticket first
If the truck has a draft ticket at this site, opens that draft instead of a new ticket. Switch off the outbound automation steps first.

Flow and Automation

Flow

Outbound

Guides the automation and what a new ticket pre-fills; the weighmaster can still take any weight on any scale.

☒ **Inbound automation**
Weighs incoming trucks without a click, using the steps checked below. Not available while Auto-populate is set to Force User to select.

☒ **Fill from the truck's last ticket**
Copies customer, product and the other ticket details from the truck's last ticket.

☒ **Capture tare at rest**
Takes the tare once the weight stops moving.

☒ **Save the Draft**
Saves the draft ticket with the tare, no confirmation needed.

Outbound automation
Steps for a truck that comes back to weigh out on its draft ticket. Needs Truck's last draft ticket first turned on.

☒ **Capture gross at rest**
Takes the gross once the weight stops moving.

Behavior Settings of Scale 1

Flow and Automation

1. **Flow:** Inbound for the scale trucks weigh in on, Outbound for the ones they weigh out on, Two-way when one scale does both. It also sets the Direction a new ticket starts with.
2. Turn on the steps you want: **Inbound automation** (fill from the last ticket, capture tare, save the draft) and **Outbound automation** (capture gross, post and print).
3. **Light:** red by default, green after a draft is saved or a ticket is printed. Pick the **AUTO light** and how long green lasts.
4. **Empty scale weight:** below it the scale counts as free. After a ticket the scale waits for the truck to drive off before it takes the next one.
5. **Minimum net:** the gross is taken only when it is at least tare plus this amount, so a truck with only part of its axles on the scale is not weighed.

CD

BULKSOURCE

Corrigan Demo Materials — Scale Configuration

Inbound

Detail Scale Information

BulkSource Connector Setup

Custom Field(s)

Ticket Template

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Flow and Automation

Flow

Inbound

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Inbound automation

Weighs incoming trucks without a click, using the steps checked below. Not available while Auto-populate is set to Force User to select.

☒ Fill from the truck's last ticket

Copies customer, product and the other ticket details from the truck's last ticket.

☒ Capture tare at rest

Takes the tare once the weight stops moving.

☒ Save the Draft

Saves the draft ticket with the tare, no confirmation needed.

Outbound automation

Steps for a truck that comes back to weigh out on its draft ticket. Needs Truck's last draft ticket first turned on.

☒ Capture gross at rest

Takes the gross once the weight stops moving.

☒ Post and print

Posts and prints the ticket after the gross is taken; an over- or underweight truck is left to the weighmaster.

☒ Light: red by default, green after post and print

Also green after an Inbound draft is saved. Green lasts up to Green duration and turns red as soon as the scale is empty.

Camera (LPR)	Traffic lights ⓘ	AUTO light ⓘ
Inbound LPR	Inbound Light	Inbound Light
Empty scale weight, lb *	Minimum net, lb *	Green duration, s *
500	1000	15
Below this weight the scale counts as empty; the next truck can start and the light turns red.	A weight below tare plus this amount is not taken as the gross, so a truck still pulling on is not weighed.	How long the light stays green after a ticket is printed or a draft is saved (1-120).
Save Cancel		

Flow and Automation of the Inbound scale

Printer

Under **Printers settings**, tick the printer the ticket goes to. Without one, automation cannot print.

BULKSOURCE | Corrigan Demo Materials — Scale Configuration | Inbound

CD

Detail Scale Information
BulkSource Connector Setup
Custom Field(s)
Ticket Template

BULKSOURCE CONNECTOR SETUP

Connection Type **online**

Served by: Yard demo connector (7788dc10) **Unbind**

Unbind the current machine first to add or approve another one.

Scale *
☒ Inbound
Scale ports are managed in the connector desktop app.

Current Weight
0 pounds

Save **Undo**

CUSTOM FIELD(S) **Create Field**

CUSTOM FIELD(S) WILL BE HERE

Let's add the first one?

Create Field

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The app is unavailable

TICKET TEMPLATE

Template

Connector serving the Inbound scale

2. Weigh a truck in and out

1. Open **Scale House**, site **Demo Quarry**, scale **All (multiscale)**.
2. Press **A** (Auto) on each scale. The status line reads "Auto on Inbound, ticket locked. Now: Waiting for a truck". If a scale shows **Run here**, press it.

BULKSOURCE | Scale House Module

Process Payment or Pre-Auth

Scale House Module Payments

Site * Demo Quarry Scale * All (multiscale)

Inbound -IN ☒ Auto on Inbound, ticket locked. Now: Waiting for a truck 0 lb A M Inbound Light Auto R G Clear Save Draft Post Ticket

Complete all items to enable Post Ticket: Site > Scale > Trucking Co. > Truck ID > Direction > Customer > Order > Product > Delivery > Freight > Date > Time In > Time Out > Qty 3 / 14

SITES

Retail Transaction ☐

Ticket # -

Status -

Distribution Site Demo Quarry

Site Address Demo Quarry

Reference ID

TRUCK

License Plate

Trucking Company Type / Select Company

Truck ID Type / Select ID

Direction ☐ Outgoing ☒ Incoming

CUSTOMER

Customer Type / Select Customer

Company ID -

ORDER

Order # Type / Select order

Order PO# -

PO#

PROJECT

Project Name -

Project ID -

Scale 1 **Scale 2**

OUT OUT

0 lb 0 lb

R G R G

A M A M

All three scales in Auto, lights red, waiting for a truck

Keep this tab open while you test: it is the one running the automation. With it closed, trucks still move in TestYard but nothing happens in BulkSource.

3. In **TestYard**, type a plate (any letters and digits, e.g. DEM0101), keep **How it goes: Normal** and **Create a previous ticket** ticked, press **Create truck**. The truck appears in **Approaching**.

BulkSource TestYard

A quarry site in your browser: drive trucks over the scales and watch the Scale House screen react.

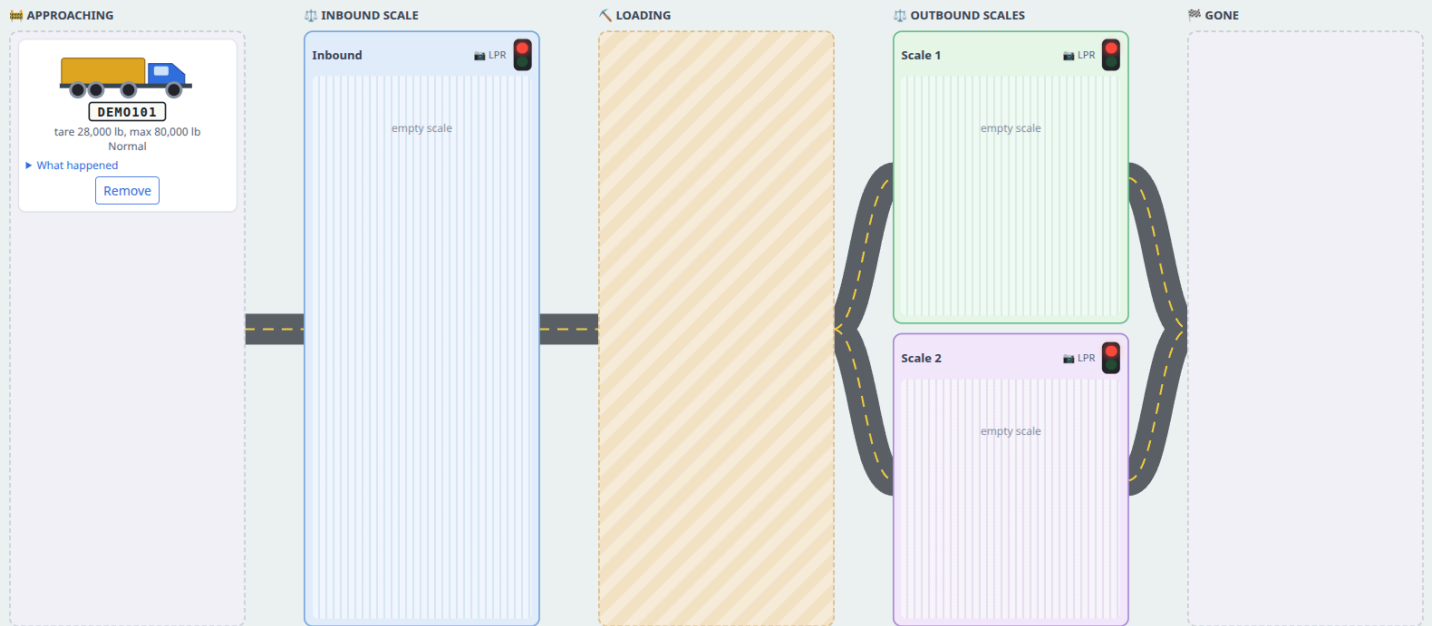
WHAT RUNS BEHIND THIS PAGE

- Site devices, emulated: 3 truck scales (Inbound, Scale 1, Scale 2), an LPR camera and a traffic light on each.
- BulkSource Connector; the same app a site installs, running on our server with a PDF printer.
- The connector talks to BulkSource through the relay, exactly as on a real site. Nothing is installed on your computer.

HOW TO USE IT

Before the first truck: open the Scale House screen, press **Run here**, switch each scale to **Auto** and keep that tab open; with it closed, trucks move here and nothing happens there. Create a truck, then drag it along the road: one station left or right, onto any scale of it. A scale that asks for you (unknown plate, rolling truck, no previous ticket): drive the truck off here first, then press Clear there. Remove takes a truck off the site at any point.

Plate	Tare, lb	Max gross, lb	How it goes	☒ Create a previous ticket for this truck	Create truck	Clear the yard
FL101ABC	28000	80000	Normal			



TestYard: drag trucks along the road

4. Drag the truck onto the **Inbound** scale. In Scale House, within about 10 seconds: plate read, truck and order filled from its last ticket, tare taken, draft saved, light green.

Scale House Module

Process Payment or Pre-Auth

Scale House Module

Payments

Site *

Demo Quarry

Scale *

All (multiscale)

Inbound

IN

Auto on Inbound, ticket locked. Now: draft #2 saved, tare 28,000 lb

28,000 lb

A M

Inbound Light

Auto

R G

0:07

Clear

Save Draft

Post Ticket

Complete all items to enable Post Ticket:

Site > Scale > Trucking Co. > Truck ID > Direction > Customer > Order > Product > Delivery > Freight > Date > Time In > Time Out

Qty

12 / 14

SITES

Retail Transaction

Ticket #

Status

Distribution Site

Site Address

Reference ID

TRUCK

License Plate

Trucking Company

Truck ID

Direction

CUSTOMER

Customer

Company ID

ORDER

Order #

Order PO#

PO#

JECT

Project Name

Product ID

Scale 1

Scale 2

OUT

OUT

lb

lb

R G

R G

Re-scan

Re-scan

A M

A M

Inbound: "draft #2 saved, tare 28,000 lb", light green

5. Drag it to **Loading** (set **load, lb** if you like), then onto **Scale 1** or **Scale 2**. In Scale House the draft opens on that scale, the gross is taken once the truck stands still, the ticket is posted and printed, and the light turns green.

BULK SOURCE

Scale House Module

Process Payment or Pre-Auth

CD

Scale House Module

Payments

Site *
Demo Quarry

Scale *
All (multiscale)

Inbound

IN

lb

R G

Camera Icon

A M

Scale 1

OUT

Auto on Scale 1, ticket locked. Now: posted, printed, net 44,000 lb

72,000 lb

A M

Scale 1 Light
Auto

R G

6:07

Clear

Save

Complete all items to enable Post Ticket:

Site > Scale > Trucking Co. > Truck ID > Direction > Customer > Order > Product > Delivery > Freight > Date > Time In > Time Out >

Qty

14 / 14

SITES

Retail Transaction

Ticket #

Status

Distribution Site

Site Address

Reference ID

2

Posted

Demo Quarry

Demo Quarry

TRUCK

License Plate

Trucking Company

Truck ID

Direction

DEMO101

Corrigan Demo Materials

DEMO101 | DEMO101

Outgoing Incoming

CUSTOMER

Customer

Company ID

Demo Paving Co

-

ORDER

Order #

Order PO#

PO#

1 | DEMO-PO-1 | N/A | Demo Highway 7

DEMO-PO-1

DEMO-PO-1

PROJECT

Project Name

Project ID

Demo Highway 7

-

Re-scan

Icon

Icon

A M

Scale 1: "posted, printed, net 44,000 lb"

6. Drag it to **Gone**. The card links to the printed ticket.

BulkSource TestYard

A quarry site in your browser: drive trucks over the scales and watch the Scale House screen react.

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Plate	Tare, lb	Max gross, lb	How it goes	☒ Create a previous ticket for this truck	Create truck	Clear the yard
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APPROACHING

INBOUND SCALE
Inbound
empty scale
LPR

LOADING

OUTBOUND SCALES
Scale 1
empty scale
LPR
Scale 2
empty scale
LPR

GONE

DEMO101
tare 28,000 lb, max 80,000 lb
Normal
▼ What happened
3:25:45 PM Inbound LPR read
DEMO101
3:25:45 PM Inbound scale: 28,000
lb, settling
3:26:18 PM left Inbound
3:26:21 PM Scale 1 LPR read
DEMO101
3:26:21 PM Scale 1 scale: 72,000
lb, settling
3:27:01 PM left Scale 1
[Printed ticket \(PDF\)](#) [Remove](#)

Truck gone, with what happened on the way and the printed ticket

The screenshot displays the 'Scale House Module' interface. At the top, there's a header with 'BULKSOURCE' and 'Scale House Module'. A 'Process Payment or Pre-Auth' button is in the top right. The main area is titled 'Scale House Module' and 'Payments'. It shows a 'Site' dropdown set to 'Demo Quarry' and a 'Scale' dropdown set to 'All (multiscale)'. Below this, a red banner indicates 'Inbound' status with a weight of '28,000 lb' and a 'Manual - this truck: Unknown plate UNK4761' message. A 'Pick truck' button is next to the message. To the right, there are buttons for 'Clear', 'Save Draft', and 'Post Ticket'. A progress bar shows '3 / 14' items. The main form is divided into sections: 'SITES' (Retail Transaction, Ticket #, Status, Distribution Site, Site Address, Reference ID), 'TRUCK' (License Plate: UNK4761, Trucking Company, Truck ID, Direction: Incoming), 'CUSTOMER' (Customer, Company ID), 'ORDER' (Order #, Order PO#, PO#), and 'OBJECT' (Project Name, Project ID). On the right side, there are two scale columns, 'Scale 1' and 'Scale 2', each with 'OUT' status, a camera icon, and a 'Clear' button.

"Manual - this truck: Unknown plate": pick the truck by hand, or drive it off and press Clear

To try the cases, pick them in TestYard under **How it goes:**

- **Unknown plate, Camera misread:** the plate matches no truck.
- **Rolling truck:** the weight never settles.
- **Overload, Underweight:** gross above the truck's max or below its min; the ticket is not posted.
- **Create a previous ticket** unticked: a truck with no history, nothing to fill the draft from.

In TestYard, drive the truck off the scale first (drag it back, or **Remove**), then press **Clear** in Scale House.

4. Your feedback

The [decision log](#) lists what we decided while building this, one line each. If anything there or on the screen is not how you want it, write on [#16103](#).