System Settings

What each option on Setup → System does. There is no Save button: every change saves as soon as you make it.

> The **Configuration** tab — Site Number, Demo Mode, QuickBooks, Pricing & Billing, Scales, the phone app, Shared Kiosk, RFID readers, Camera, Driver Signature and Kiosk — only appears for the **support** login, and only support can change those settings or add, change or delete scales, kiosks, cameras and card readers. Anyone else can view the Scales, Kiosks and Cameras pages from the **Equipment** card, with everything locked. The support password is the site's date as yyMMdd (29 September 2026 is 260929); the login page shows that date. These settings are marked (Configuration) below.
>
> Most options are simple on/off switches. Several unlock a page of their own: the Scales, Kiosks, Cards, Readers, Cameras, Jobs, Billing and Bins buttons beside them take you there.

System

Setting	What it does
Recall Last Values	The office Weigh In form starts filled in with the customer, commodity, location, destination and bin of the last ticket. Useful when most trucks haul the same thing all day.
Kiosk PIN Code	With logins on, the PIN a kiosk, signature pad or ticket view enters once to be let in. Kiosks have no keyboard for a login, so they use this instead. Someone signed in to the office doesn't need it: Kiosk → Simulated Kiosk opens straight away.
Enable Spanish	Lets the driver-facing screens (kiosk, phone page, signature pad, ticket views) run in Spanish, with an EN/ES button. Office pages stay English. Off, no language button appears anywhere.
Default Language	What those screens show before anyone presses EN/ES. One device can be pinned to a language by adding `?lang=es` to its address.
Theme	The colours of the office pages: Default (blue), Dark, Earth, Gray, Charcoal (a dark gray), Navy & Gold, Forest Green, Safety Orange, Burgundy, Leaf Green, Meadow Green or River Blue. The page reloads to apply it.
Display Time Zone	The time zone every date and time is shown and printed in: grids, date pickers, tickets, reports and emails. Set it to where the scale is, whatever clock the server keeps.

Jobs

Setting	What it does
Use Jobs	A Job field (optional) follows Customer on the weigh forms, kiosk and phone. Several customers can haul to one job. See the Jobs & Billing help sheet (the **Help** button on this card).
Jobs button	Opens Database → Tables → Jobs, where the jobs are kept.

Site Configuration (Configuration)

Only the support login sees these.

Setting	What it does
Site Number	1 to 99 gives this site its own block of a million ticket and invoice numbers, so sites that sync to one master never clash: site 2 numbers tickets from 2,000,001 and invoices from 2,001,001. 0 = none. Tickets and invoices already made keep their numbers.
Demo Mode	**Demo** runs the site on simulated weights, with the Simulate button in the top bar to set them, for training and demonstrations. **Normal** takes weights from the real scale indicators; a site weighing real trucks must be on Normal. While Demo is on, an **Admin** also gets the support login's access (Configuration, the Database tab, Shared Kiosk Setup), so a demo needs no support password. Reset System stays with the support login.
Connect to QuickBooks	Adds **Send to QuickBooks** to Completed Trucks, which sends finished tickets through the QuickBooks Sync Service. **Check** tests whether that service is connected.
Use Pricing & Billing	Loads are priced from a price list (per ton or unit, flat charge, minimum, special rates per customer or job) with sales taxes; the Billing menu invoices, takes payments and sends statements. On, the Setup → **Pricing** tab appears and the **Billing** button beside this opens the Billing page. See the Jobs & Billing help sheet.
Use RFID/ID	**Yes**: drivers present RFID cards at a reader, and every screen calls them cards. **No**: the number is only keyed in, as a shortcut to a load's details, so every screen says ID instead (ID Setup, Use ID, Enter Ticket or ID Number) and the Readers button and reader settings are hidden. Wording only — what a card or ID does is the same. On its own **RFID/Card ID** card, shown while Use Cards is on (System tab).

Scales (Configuration)

Setting	What it does
Scales button	Opens the Scales page, where each scale is named, tied to its indicator, given a printer and, for phones, a position.
Axle Weighing	Scales page → **Axles / Stop Light** on the scale's row. For trucks weighed an axle at a time. As an axle comes on the kiosk and any phone on that scale show a red **STOP**; once the weight has held still for the **Settle** time it is recorded and they show a green **PULL FORWARD** for the next one. No light is needed.
Stop Light	Optional, in the same dialog: a physical stop / go light from a connected Stop Light Service. It follows axle weighing too, green with the scale empty. With one set, the dashboard's display for the scale shows the lamp and **GO**, **STOP** and **OFF** buttons, so the office can tell a driver to move. *LIGHT OFFLINE* means its service isn't connected.
Settle / First axle / Step	Settle: seconds the weight must hold still (default 2). First axle: the weight that counts as the first axle, and below which the scale is empty (default 1,000 lb). Step: how much the weight must rise before the next axle counts (default 1,000 lb).

One recorded weight is an ordinary weighment. From the second, it is axle weighing: the kiosk shows the weights beside the weight with **Print** (or the P key), the phone shows them with **Save PDF**, and every office page shows *Scale N has axle weights* with **View / Print** and **Dismiss**. Each axle is shown as its own weight, with the whole truck as the total. The weights of the last 50 trucks are kept until the server restarts.

The **Stop Light Service** is installed on the PC or Pi wired to the light (port 5260). A light shows Green, Red or Off. **Streaming** sends the scale's weight and a state character over a serial port, **Command** just the character, and **Discrete** switches two outputs on a Raspberry Pi, one for green and one for red. The lights are described on that box at *http://<box>:5260/swagger*; the README in its package has examples. If the service loses the web app, its lights go red.

Mobile (Configuration)

The driver's phone page (/Mobile), for weighing without the kiosk.

Setting	What it does
Phone App	**On**: drivers can weigh from their phones at /Mobile. **Off**: that page says the phone app is turned off, and the links to it are hidden.
Require Location on Mobile	A phone only weighs on the scale it is standing at: it must share its location and be within range of a scale whose position is set on the Scales page. The server checks again on every weighment. Phones only share location with an **https://** site, so on plain http the phone cannot weigh with this on. With several scales the phone connects to the one it is at. When two are in range (side-by-side scales) it prefers the one with a truck on it, and only switches to another scale if that one is clearly nearer. The driver can also tap the scale name at the top of the page to choose between the scales in range. Out of range, the phone lists how far it is from every scale, which shows at a glance if a scale's position was set in the wrong place. Off, the phone picks up the last scale it used; with more than one scale, tap the scale name at the top to choose another.
Mobile Range (meters)	How close the phone must be to the scale, 10 to 1,000 metres.
Phones Can Open the Desktop Site	**Yes** (the default): a phone opening the site is asked once whether it wants the mobile or desktop view, and the phone app has a button to the dashboard. **No**: a phone always gets the phone app. Office pages opened on a phone go to it, there is no choice to make, and the phone app has no dashboard button. Tablets and computers are not affected.
Phone App Without Sign-In	Only once the site has user logins. **No** (the default): the phone app needs a signed-in user, the Mobile role at least - every role counts. **Yes**: drivers weigh from their phones with no account, and the office pages keep their login. The phone app can only touch the load it opened.
Phone app QR code	The QR code under these settings opens this site's phone app. **Download QR Code** saves a print-size copy for a sign at the scale or a handout. On a shared kiosk each company prints its own: a driver's phone goes straight to that company's site, with no company picker. Phone weighments are still counted on the primary's Shared Kiosk page, under **By Phone**.

Shared Kiosk (Configuration)

One kiosk serving several companies, each on its own Foundation server. The kiosk rests on a company picker on the primary server; after each ticket or cancel it goes back there, and the primary counts each company's use for billing.

Setting	What it does
Shared Kiosk	**Yes** on the server of every company the kiosk serves, the primary's own company included. A kiosk opened from the company picker goes back to it after each ticket or cancel, and its tickets are reported to the primary. The driver can also press **Change Company** to go back. **No**: kiosks behave as they always have.
Host the Kiosk Picker	**Yes** on the primary server only. It shows the company picker at `/Kiosk/Hub` and keeps the companies and their usage (Kiosk → **Shared Kiosk**). There, Kiosk → Simulated Kiosk starts on the picker.
Picker Server Address	The primary server's address as the kiosk reaches it, e.g. `http://10.0.0.5:5110`. On the primary, its own address.
Shared Kiosk Key	The key the primary shows for this company on Kiosk → Shared Kiosk. It is how the primary knows whose tickets these are.
Back to Picker After (seconds)	A kiosk left untouched this long on a resting or finished screen goes back to the picker, so it isn't left on one company. 15 to 3,600 (default 60).
Join with a code	Paste the code for this company (it starts `FDNKIOSK-`) from Shared Kiosk Setup on the primary and press **Join**. It turns Shared Kiosk on and fills in the address and key; there is nothing else to save.
Shared Kiosk Setup (Kiosk menu)	On the primary, for the support login. **1**: enter this server's address as the kiosk reaches it (not localhost) and press **Make this the primary**. **2**: add each company with its **Name on the kiosk** and its server's address. Each gets a join code, and its Status reads *Joined* once its server has used it. The primary's own company uses **Join this server** instead. **3**: point the kiosk at the picker.
Shared Kiosk (Kiosk menu)	On the primary, for Managers and Admins. **Companies** lists who is on the picker, in Order, with each server's address and whether it is Active; support also sees the keys and can add, edit and remove companies. **Open Picker** shows what the kiosk shows. **Usage** counts, for the dates chosen, each company's **Picks** (times a driver chose it on the kiosk), **Weigh-Ins**, **Weigh-Outs** and **Tickets**. **By Phone** is how many of those tickets came from drivers' phones, which go straight to their company's site. **Download CSV** saves the table. A company server that can't reach the primary sends its tickets later, so recent days can still grow.
Devices at the scale house	The scale, printer, card reader, camera, gate and stop light serve every company at once. Install each device box once with every company's address, e.g. `bash install.sh https://agnw.scaledata.net https://crs.scaledata.net` (on Windows, in quotes and separated by commas). Each company then sets the devices up once on its own Scales, Printers and Cameras pages. Each company has its own connection, so one that is down doesn't affect the others; weights and card reads go to every company, and a photo or print job goes to the company that asked.

Kiosk (Configuration)

The unattended screen drivers use at the scale.

Setting	What it does
Kiosk Count	**No Kiosk**, **One Kiosk** (one screen handles in and out), or **In/Out Kiosk** (separate screens for the two directions). Anything but No Kiosk shows the options below and the Kiosk columns on the Prompts tab.
Kiosk Dark Mode	Dark or light kiosk screens.
Kiosks button	The kiosk displays that have registered, and the scale, printer and card reader each one uses.
Live Kiosks (Kiosk menu)	A live copy of every kiosk screen. Click one to enlarge it, or Pop Out to give it its own window. There, a Manager or Admin can press **Take Control** to use the kiosk from the office: clicks, scrolling and typing go to the kiosk as if touched there, and the kiosk shows "The office is using this kiosk". **Stop Control**, or closing the view, hands it back. A dark kiosk can't be controlled.
Show Keypad When a Truck Is on the Scale	For a kiosk with no keyboard: once a truck is settled on the scale, the keypad opens by itself with a Weigh In button beside it, so nobody has to press Enter.
Hide Scan / Ticket Button at the Kiosk	Removes the blue scan / key-in button from the ready screen, for sites where drivers never key a ticket number. A barcode scanner still works.
Hide On-Screen Buttons	Hides every on-screen button (keypad, Cancel, Skip, Done, Weigh In) for a kiosk driven entirely with a physical keyboard or scanner. A touchscreen kiosk with no keyboard needs this **off**.
Help Button on the Kiosk	On by default. Puts a red **Help** button on the kiosk. Touching it shows a red notice with a chime on every office screen that is open, and turns the kiosk's tile red on Live Kiosks. **Open Kiosk** on the notice answers it, clears it for everyone else, and opens that kiosk in its own window, ready for Take Control. The driver sees who is helping. Each request, answer and cancel is in the Audit Log as Kiosk Help.
Kiosk Screen Off	**Never**; **After Hours** between the Off From and Back On At times (it may run overnight); or **Off Now** until set back. While dark, the kiosk ignores touches, keys and cards and the server refuses its weighments.

Cards

A card carries a load's details (customer, commodity and so on), so the driver skips the kiosk questions. Without RFID readers the screens call it an **ID** instead — the settings below read the same way.

Setting	What it does
Use Cards	Turns cards on: the Cards and Card Setup pages appear, and kiosks accept cards at a reader or keyed in on the keypad. Off, nothing card-related shows and readers are ignored.
Recycle Cards	**Deactivate after each load**: the card must be issued again for the next load. **Recycle**: it stays issued with the same details for the next load. A single card can be set differently on Card Setup.
Cards / Readers buttons	Register cards and issue them; check the card readers and their serial ports. Readers shows only with RFID readers on.
Allow Cards at the Kiosk / on the Weigh Forms / on the Phone	Where a card may fill in a load. Turn one off and cards are refused there while the others carry on. The kiosk one hides while there is no kiosk, the phone one while the phone app is off.
Hide Weigh In Button at the Kiosk	Every kiosk load must start from a card or a ticket number, so no load goes through without its card's details. Hidden while there is no kiosk.
Use the Truck's Card at the Kiosk	A driver who picks a carrier and truck that exactly one issued card belongs to gets that card's details filled in, as if they had keyed its number. Hidden while there is no kiosk.

Camera (Configuration)

Setting	What it does
Save Picture for Ticket	A camera photo is taken at each weighment and kept with the ticket. Thumbnails appear on Completed Trucks.
Use Live View	Adds a live picture from the cameras for the operator to watch the lane. Independent of saving pictures, and only shows once the camera service reports it can stream.
Cameras button	Opens the Cameras page to set the cameras up.

Other

Setting	What it does
Use Retained Tare	A truck's empty weight is kept when it weighs out, and its next weigh-in uses it, so the load completes in one weighment. Off, every truck weighs in and out. A weigh-out whose two weights are within 10% of each other (a truck weighed out loaded on an old open ticket) carried no load, so it leaves the stored tare as it was. **Manage** opens the trucks and their stored tares.
Retained Tare Applies To	**All loads**, or **Selected commodities, customers & carriers**: only loads whose commodity, customer or carrier is ticked in the Retained Tare column of Database → Tables (any one is enough). Those loads are always asked Carrier and Truck ID and can't skip them; every other load weighs in and out normally and is asked only what Kiosk Prompts says - so Truck ID can be left off for them.
Type Truck ID When Not on File	With no carrier, or a carrier with no trucks on file, the kiosk and phone let the driver type the Truck ID instead of picking it. Off, no carrier skips Truck ID and a carrier with no trucks stops the kiosk with "see the office".
Auto-Clear Tares at Midnight	Stored tares only last the day they were taken. Off, they last until cleared by hand.
Allow Tare Reset at the Kiosk / on the Phone / from a Card	Whether a driver there may throw away the stored tare and weigh out again for a fresh one. Off, the stored tare is used without asking (on the phone the driver can still skip it for one load). The kiosk one hides while there is no kiosk, the phone one while the phone app is off.
Use Bin Inventory	Tickets record a bin, bins are kept on Database → Tables → Bins, and Reports gains a Bin Inventory tab: loads in add to a bin, loads out take away, plus manual adjustments.
Bin Entry	**Required**: a ticket cannot be saved without a bin, and the kiosk cannot skip the question. **Optional**: it may be left blank.
Lock Bin to Commodity	A bin holding something only takes that commodity, and picking the bin fills the commodity in. It frees up once the bin is emptied.
Default Reporting Unit	The unit report columns use for a commodity that has no reporting unit of its own (Database → Tables → Commodities): pounds or kilograms.
Use Basic Ticket	Adds **Basic Ticket** to the dashboard and the Weighments menu: it prints the scale weight with the date, time and comments. It is not saved and has no ticket number. **Layout** opens it in the Report Designer.

Users & Security

There is no login switch. A new site has no user logins and runs open: anyone who can reach it can use every page. Adding the first user (always an Admin) turns login on, and from then on everyone signs in. Delete every user and the site runs open again.

Setting	What it does
Manage Users	Add, edit and remove users. Each has a role, which decides what they reach: **Admin** everything, including Setup; **Manager** the weigh pages plus Database (Tables and Dropdown Fields) and the Audit Trail; **User** the weigh pages; **Mobile** the phone page only. Every user needs an email address.
Sign-in Options & API Keys	Opens the Sign-in & API Keys page: sign in with Google, Microsoft, Facebook or your company's login, and keys for other systems to call the API. See below.
Two-factor sign-in (email code)	Off by default. On, a 6-digit code is emailed to the user after their password (or their Google, Microsoft, Facebook or company sign-in) and must be entered to finish signing in; it lasts 10 minutes, and five wrong tries start the sign-in over. It can only be turned on once email is set up (Email tab) and every user has an address.
Keep me signed in	A tick box on the sign-in page, on by default. The computer stays signed in until someone presses **Logout** (renewed as it is used). Untick it on a shared computer: the sign-in then ends when the browser closes. Deactivating or deleting a user, or changing their role, signs them out.
Login / Logout	Always in the top bar: Logout when signed in, Login otherwise, so the support login can sign in even while the site runs open.
Database tab	Load Test Data, Clear Transactions and Clear Database appear on their own Setup tab only for the **support** login.
Reset System (Database tab)	Clears **everything** and starts the system over as new: tickets, every list, locations, scales, kiosks, cards, custom fields, users, sign-in options, API keys, email and print rules, ticket layouts and every setting, with every option turned off. Only the support login is kept. Type RESET to confirm.
Setup wizard	A new system, or one just reset, does nothing until the **support** login has been through the wizard. Everyone else is sent to sign in, and kiosks, phones and device services are told the system is being set up. Support lands on Setup, shown one step at a time: Company & Ticket, Users & Security, Configuration, System, Schema, Locations, Scales, Email, Prompts, Printing, Report Designer and API (Services is left out; Pricing appears once billing is on). Everything saves as it changes. **Finish Setup** needs the company name and one scale, and opens the system to everyone.

Sign-in & API Keys

Setup → Users & Security → **Sign-in Options & API Keys**. Either way in, what someone may do is still set by a role.

Setting	What it does
Sign-in options	Google, Microsoft, Facebook and OpenID Connect (Okta, Auth0, Keycloak, Entra ID for one organisation and the like), each with an **On** / **Off** badge. A person who signs in this way becomes the Foundation user with the same email address, with that user's role. After the first time the provider account stays linked to the user, shown on Edit User; removing it there only unlinks it. The buttons show on the login page once the site has user logins.
Redirect URI	The address to give the provider when registering the app; **Copy** copies it. Providers need an **https://** address (only localhost may use http), so use the address users reach the site by. Each provider has a link to where its app is registered.
Button text, Client id, Client secret	The words on the login page button, and the id and secret the provider gives the app. A saved secret is never shown: leave the box blank to keep it.
Tenant / Issuer URL	Microsoft: **common** lets in any account, or give your organisation's tenant id or domain to allow only it. OpenID Connect: the provider's address, e.g. `https://login.example.com`.
Allowed email domains (optional)	Only addresses at these domains are let in, e.g. *example.com, example.org*. Blank: any address that matches a user.
Create a user for anyone new	Off: only people an admin added can sign in. On: anyone new gets a user with the role in **New users get role** (User, Manager or Mobile). Best with allowed domains set.
Show on the login page	Puts the provider's button on the login page. Each provider saves on its own with **Save**.
API keys	For other systems (ERP, accounting, dispatch) calling the API without signing in. Give the key a name and a role and press **Create key**; copy it straight away, as it is not shown again. A key acts with its role: **User** reads, **Manager** can also add and change data through the Integration API, **Admin** can reach everything an admin can. It is sent as `X-Api-Key: fdn_…` or `Authorization: Bearer fdn_…`, works on `/api/…` only, and can't manage keys or sign-in. The list shows when each was last used; untick one to switch it off, or Delete it.
Require an API key for the Integration API	`/api/tables` then answers only a valid key or a signed-in user, even while the site runs without login. The office's own screens don't use it, so nothing changes for them. With login on, every other API call already needs a sign-in or a key.

API

Setup → API.

Setting	What it does
API Definition PIN	The PIN needed to open the API definitions page, which describes every API call. **Open API Definitions** opens it; the **API URL** under it is the address with the PIN, to give a developer. The PIN is kept as a cookie after the first visit.
Manage API Keys	Opens Sign-in & API Keys (above). On the API definitions page, press **Authorize** and paste a key to try calls with it.

Driver Signature (Configuration)

Setting	What it does
Signature Capture	**Off**; **Operator Device**: the driver signs on the operator's screen at weigh-out; **Remote Signature Pad**: a tablet at the window shows the request and the driver signs there.
Signature Required	**Required**: a weigh-out cannot be saved unsigned. **Optional**: the operator is asked but may save without one.
Print Signature on Ticket	The signature prints on the completed ticket.
Signature Pad ID	Which tablet receives the requests, when there is more than one. Scan the QR code with the tablet, or open the link shown, to set it up as the pad.

Icon

Setting	What it does
Icon	The small logo in the top bar, the browser tab and on the printed ticket. Choose a picture file; tick **Remove** to go back to the default, the Michelli icon. A PNG or JPG is safest: SVG shows in the browser but cannot print on tickets. The name beside it in the top bar is the first company line (Setup → Company & Ticket), *Foundation* on a new site.

> **Leaving with unsaved changes.** On the office weigh forms, going to another page before saving asks what to do: **Stay** on the form, **Leave without saving**, or **Save** first.