OFFICIAL ENGINEERING & PRODUCT LEDGER

McQueen Technologies — Master Release Notes

On-Premise Daycare Server Appliance, McQueen Gateway (:8443), McQueen Monitor NOC & Web Suite

Active Build: **v2.11.0 • Rev 46**
Release Date: **2026-11-23**
Platform: Raspberry Pi OS 64-Bit (Debian 11 Bullseye / Debian 12 Bookworm / Debian 13 Trixie) • ARM64

CUMULATIVE RELEASE & REVISION INDEX (ALL 25 RELEASES TO DATE) V2.0.0 (REV 10) — V2.11.0 (REV 46)

VERSION	REV	DATE	STATUS	RELEASE SCOPE & PRIMARY CAPABILITIES	SCOPE
v2.11.0	Rev 46	2026-11-23	**ACTIVE**	Central Texas Daycare Sales & Lead Pipeline CRM, 1-Click State Licensing "Inspection-Ready" Pre-Check, Proactive microSD Lifespan Telemetry, Scan-to-Save vCard QR Flyer & 14s Hardware Watchdog	5 items
v2.10.0	Rev 45	2026-11-20	**ARCHIVE**	Settings-Driven Daycare Branding, 1-Click CSV/Brightwheel/Excel Roster Importer, 1-Click Sales Demo Mode, Out-of-the-Box LUKS2 First-Install Provisioning & Print-Grade Documentation Suite	5 items
v2.9.1	Rev 44	2026-11-16	**ARCHIVE**	Eliminated 1-Second Login Gate Re-Init Jitter — Idempotent Session Guard, Persistent Canvas Simulation State & Pure GPU Crest Halo	2 items
v2.9.0	Rev 43	2026-11-16	**ARCHIVE**	Embedded McQueen AI NOC Co-Pilot (Gemini / Claude / OpenAI + Built-In Local Ops Brain) & 144Hz Delta-Time Smooth Cybernetic Animations	3 items
v2.8.1	Rev 42	2026-11-16	**ARCHIVE**	Cybernetic Reactor NOC Login Gate — 4 Interactive 60fps Telemetry Scenes, Counter-Rotating Holographic Crest, Keystroke Cipher Meter & Split Armored Blast-Door Unlock	2 items
v2.8.0	Rev 41	2026-11-16	**ARCHIVE**	McQueen Monitor Command-Center Suite — Live War Room Mesh Radar & TV Wallboard, JARVIS Voice/Synth FX, `Ctrl+K` Command Palette, Physical Pi LED Blinker, Sparklines, Streak Trophy, Threat Shield & Matrix Saver	7 items
v2.7.2	Rev 40	2026-11-16	**ARCHIVE**	1-Click Rogue-Port Remediation (VNC `:5900` / SMB / RPC + Dynamic Wildcard Killer), Live Button Spinner, Immediate Node Re-Poll & Wait-Until-Ready NOC Self-Update	2 items
v2.7.1	Rev 39	2026-11-15	**ARCHIVE**	Selectable Fleet Rollout Engine with Individual Per-Appliance Progress Bars, Full `.tgz` Streaming Deploy & Automatic Rogue-Port Daemon Lockdown	3 items
v2.7.0	Rev 38	2026-11-15	**ARCHIVE**	Automated Monthly Director Peace-of-Mind Digest, Smart Mini-UPS Power-Outage Shield, Customer Wi-Fi/LAN Isolation Audit, Cyber-Insurance Compliance Packet & 1-Click NOC Self-Updater	4 items
v2.6.9	Rev 37	2026-11-15	**ARCHIVE**	McQueen Monitor Continuous Security & Intrusion Shield, NTP Attendance Clock-Drift Guard, 1-Click Security Lockdown & Automated DR Restore Drill	3 items
v2.6.8	Rev 36	2026-11-14	**ARCHIVE**	McQueen Gateway (`:8443`) Debian systemd `fcgiwrap` ExecStart Override Fix (`HTTP 502` Resolution)	2 items
v2.6.7	Rev 35	2026-11-14	**ARCHIVE**	McQueen Gateway (`:8443`) Multi-OS Python 3.9–3.13 Auth Compatibility, FastCGI Socket Recovery & Streaming Media Isolation	2 items
v2.6.6	Rev 34	2026-11-14	**ARCHIVE**	Parent & Staff Contact Privacy Masking, Per-Row Inline Edit Lock & 1-Click Reveal/Hide All	3 items
v2.6.5	Rev 33	2026-11-12	**ARCHIVE**	Tax & Revenue Chart Engine Fix, PIN Masking & Security Hardening, In-Page Kiosk Staff Unlock & NOC 5-Theme Engine	3 items

VERSION	REV	DATE	STATUS	RELEASE SCOPE & PRIMARY CAPABILITIES	SCOPE
v2.6.4	Rev 32	2026-11-11	ARCHIVE	Gateway (`:8443`) Multi-Worker `fcgiwrap` Concurrency & Out-of-Band Live Updater Loopback Fix	2 items
v2.6.3	Rev 31	2026-11-11	ARCHIVE	McQueen Gateway (`:8443`) Zero-Secret Session Security, Zero-Wear RAM Telemetry & Out-of-Band Recovery Guardrails	3 items
v2.6.2	Rev 30	2026-11-10	ARCHIVE	Dynamic Customer Web Root (`/var/www/<hostname>`), LUKS2 Vault Symlink Protection & Printable Customer Sales Flyer	3 items
v2.6.1	Rev 29	2026-11-06	ARCHIVE	Split-Payment Installment Log, 1-Click Batch W-10 Tax Packet, Anonymous Illness Exposure Notice & Live Net Profit Snapshot	4 items
v2.6.0	Rev 28	2026-11-06	ARCHIVE	Collapsible UI Sections & Compact Roster, Kiosk Parent Family Pass, IRS Mileage Logger ($0.70/mi), Staff PIN Time-Clock, Infant Care Toggle & Live Allergy Cross-Check	7 items
v2.5.3	Rev 27	2026-11-02	ARCHIVE	Online Website Inquiry Import, Remote Anywhere Web Portal ($10/mo), Check-Markable Invoice Line Items & 23 In-Home Daycare Extensions	26 items
v2.5.2	Rev 26	2026-10-30	ARCHIVE	Zero-Knowledge Off-Site Backups, SD Wear Protection, Fleet Rollout, Outgoing Email Config & Extra Day Fee	10 items
v2.5.1	Rev 25	2026-10-27	ARCHIVE	White-Label McQueen Systemd Services, Legal Forms Suite (`MT-100` – `MT-104`) & NOC Web SSH Integration	5 items
v2.5.0	Rev 24	2026-10-27	ARCHIVE	Home Command Center, Admin Bulletin Board, 5 In-Home Daycare Modules & SSL Key Pin Preservation	18 items
v2.4.0	Rev 18	2026-10-24	ARCHIVE	Child 4-Digit PIN Tablet Kiosk, Staff Payroll (W-2 / 1099-NEC) & Multi-Appliance Provisioning	6 items
v2.0.0	Rev 10	2026-10-20	ARCHIVE	Core 52-Week Friday Tuition Ledger, Role-Based Auth & Schedule C / Form 2441 Tax Engine	5 items

CURRENT PRODUCTION BUILD **Version 2.11.0 — Revision 46** Built 2026-11-23

Central Texas Sales & Lead Pipeline CRM, 1-Click State Licensing "Inspection-Ready" Pre-Check, Proactive microSD Lifespan Telemetry, Scan-to-Save vCard QR Flyer & 14s Hardware Watchdog

📦 Package: `Daycare_Appliance_Bundle_v2.11.0_r46.tgz` • `McQueen_Monitor_Bundle_v2.11.0_r46.tgz`

✨ SALES PIPELINE CRM, PRE-INSPECTION SELF-AUDIT, MICROSD ENDURANCE & HARDWARE RESILIENCE

- 🎯 **Local Daycare Sales & Lead Pipeline Tab (`mcq-monitor`):** Track Central Texas daycare prospects, demo dates, live Brightwheel/Procare annual savings & payback calculators, follow-up reminders, 1-click custom Sales Flyer, and 1-click conversion into an active Customer + Billing Entry + pre-filled **MT-100 Legal Packet**.
- 📋 **1-Click State Licensing "Inspection-Ready" Pre-Check (`Daycare_Payment_Tracker_App.html`):** Audits every enrolled child (missing DOB, expiring immunizations & physicals, missing emergency physician/phone, missing pick-up list & medical release), staff member (Pediatric CPR/First-Aid, background checks, training clock hours), and monthly Fire / 90-day Weather drills with 1-click Jump-to-Fix actions and a printable Pass/Fix Report.
- 💾 **Proactive microSD Lifespan & Wear Telemetry (`mcq-monitor`):** Reads `mmcblk0` CID/manufacturer/date/serial, `ext4` cumulative `lifetime_write_kbytes`, `errors_count`, and kernel MMC I/O error counters on each Pi to warn months before an SD card wears out under the **$0 Free Hardware Replacement Guarantee**.
- 📱 **Scan-to-Save Contact vCard QR on Sales Flyer (`McQueen_Daycare_Sales_Sheet.html`):** Offline ISO/IEC 18004 SVG QR code encoding Cody McQueen — McQueen Technologies contact vCard for 1-tap phone contact saving.
- 🛡️ **14-Second Broadcom Hardware Silicon Watchdog & Self-Healing Tunnel (`installDaycare.sh`):** Configures `RuntimeWatchdogSec=14s` (`/dev/watchdog`), `kernel.panic=10`, and `/usr/local/bin/mcqueen-net-watchdog.sh` for automatic freeze & WAN recovery.

HISTORICAL RELEASE

Version 2.10.0 — Revision 45

Built 2026-11-20

Settings-Driven Daycare Branding, 1-Click CSV/Brightwheel/Excel Roster Importer, 1-Click Sales Demo Mode, Out-of-the-Box LUKS2 First-Install Provisioning & Print-Grade Documentation Suite

📦 Package: `Daycare_Appliance_Bundle_v2.10.0_r45.tgz` • `McQueen_Monitor_Bundle_v2.10.0_r45.tgz`

✨ DAYCARE BRANDING, FAST ONBOARDING, FIRST-INSTALL HARDENING & SALES TOOLKIT

- 🏢 **Settings-Driven Daycare Name & Logo Branding (`Daycare_Payment_Tracker_App.html`):** Locked the top header daycare name and logo badge to clean read-only display (no accidental clicks or dashed input borders) and moved Daycare Name & Logo customization into a dedicated 🏢 **Daycare Name & Logo Branding** card inside ⚙️ `Settings` (Admin-only, syncing automatically to the header, login screen, Tablet PIN Kiosk, browser tab, and Form 2441/W-10 tax receipts).
- 📩 **1-Click CSV / Brightwheel / Procare / Excel Roster Importer (`Daycare_Payment_Tracker_App.html`):** Launchable from ⚙️ `Settings` or 👨‍👩‍👧 `Our Families`. Auto-maps columns (Family/Parent Name, Child Name(s), Email, Phone, Tuition Rate, Weekly/Bi-Weekly/Monthly Schedule, Child DOB, Authorized Pick-Up Adults, and auto-generated unique 4-digit Kiosk PINs), skips duplicates, renders a live preview table, and includes a 1-click ⬇ **Sample CSV Template** download.
- 🎬 **1-Click Sales Demo Mode (`Daycare_Payment_Tracker_App.html`):** Admin-only **Load / Reset Sales Demo** button in ⚙️ `Settings` populates an 8-family **"Sunny Oaks Learning Center"** demo daycare complete with weekly/bi-weekly tuition history, live check-ins, IRS CACFP meals, Kid Grams, an upcoming birthday, and a Photo ID pick-up restriction alert for instant live tablet demos.
- 🔐 **First-Install Appliance Provisioning Hardening (`installDaycare.sh`):** Automatically provisions and unlocks the **512-bit LUKS2 hardware-bound SD vault** during `--new-appliance` setup, pre-mounts RAM `tmpfs` `/var/log/nginx` before starting Nginx, enables `systemd-timesyncd` NTP clock sync & `vnstat` on first boot, enforces `/etc/ssh/sshd_config.d/00-mcqueen-hardening.conf` first-match SSH lockdown, computes dynamic first-Friday calendar dates, and safely handles Wi-Fi SSIDs containing spaces.
- 💰 **Interactive Savings Calculator Flyer & Print-Grade Manuals (`McQueen_Daycare_Sales_Sheet.html` & Guides):** Added a live tablet-friendly Brightwheel/Procare vs. McQueen Technologies savings calculator that stamps personalized annual savings onto the printable 1-page PDF flyer, and upgraded the **Technician Installation Guide**, **Staff User Guide**, and **Master Daycare Appliance Manual** with cohesive McQueen Technologies Navy/Ember branding and clean US Letter `@media print` pagination.

HISTORICAL RELEASE

Version 2.9.1 — Revision 44

Built 2026-11-16

Eliminated 1-Second Login Gate Re-Init Jitter — Idempotent Session Guard, Persistent Canvas Simulation State & Pure GPU Crest Halo

📦 Package: `Daycare_Appliance_Bundle_v2.9.1_r44.tgz` • `McQueen_Monitor_Bundle_v2.9.1_r44.tgz`

✨ LOGIN SCREEN 1-SECOND RESET JITTER FIX

- 🔴 **Fixed 1,000ms Background Session Timer Re-Initializing `#tokenModal` (`ui.html`):** Previously, the 1-second `setInterval` session watchdog called `openTokenModal()` → `_startLoginCyberAnimation()` every 1,000ms whenever logged out (`!getToken()`), even when `#tokenModal` was already open — wiping the canvas and re-randomizing all 64 `Neural Mesh` particles, resetting `Radial Reactor` / `Orbital Radar` angles back to `0`, clearing `Hex Stream` columns, spiking `_loginEnergyBoost`, and stealing input focus once per second.
- 🔒 **Idempotent Modal Guard, Persistent `_loginSimState` & GPU Compositing (`ui.html`):** Added strict idempotency guards in `setInterval`, `openTokenModal()`, and `_startLoginCyberAnimation()`, persisted `_loginSimState` across scene switches, pre-warmed `Hex Stream` phosphor trails so switching scenes has zero blank flash, locked `SYS.CLK` to `tabular-nums`, and converted the emblem pulse from `box-shadow` repainting to a pure GPU `scale3d` / `opacity` layer.

HISTORICAL RELEASE

Version 2.9.0 — Revision 43

Built 2026-11-16

Embedded McQueen AI NOC Co-Pilot (Gemini / Claude / OpenAI + Built-In Local Ops Brain) & 144Hz Delta-Time Smooth Cybernetic Animations

📦 Package: `Daycare_Appliance_Bundle_v2.9.0_r43.tgz` • `McQueen_Monitor_Bundle_v2.9.0_r43.tgz`

🤖 EMBEDDED MCQUEEN AI NOC CO-PILOT & SILKY DELTA-TIME ANIMATION ENGINE

- 🤖 **Embedded McQueen AI NOC Co-Pilot (`api.py` , `ui.html` , `Ctrl + J`):** Slide-out AI Senior NOC Operations Engineer integrated directly into `mcq-monitor` (top-bar `🤖 AI Co-Pilot` button, bottom-right holographic orb, or `Ctrl + J`). Works immediately out-of-the-box via the **Built-In Zero-Key Local NOC Ops Brain**, and upgrades seamlessly when you save a **Google Gemini (`gemini-2.5-flash` / `gemini-2.5-pro`)**, **Anthropic Claude**, or **OpenAI GPT** API key into the `0600` server vault (`/opt/mcqmon/.ai_copilot_config.json`).
- 🛠️ **Live Zero-PII Fleet Telemetry, Safe Tool Calling & 1-Click Remediation Approvals (`POST /ai-copilot/chat` , `POST /ai-copilot/execute-action`):** Automatically runs read-only diagnostics (`poll_nodes` , `run_lan_audit` , `run_dr_backup_drill` , `blink_pi_led` , `scan_threat_shield` , `preview_director_digest`) with zero child/parent PII exposure, renders 1-click confirmation buttons inside chat for state-changing actions (`security_lockdown` , `restart_services` , `pull_backup` , `open_rollout` , `push_digest_bulletin`), and supports two-way 🎤 voice dictation + spoken JARVIS replies.
- ✨ **144Hz Delta-Time Smooth Login, War Room & Matrix Animations (`ui.html`):** Replaced multiplicative frame-counter phase math with monotonic `performance.now()` delta-time integration (`simTime += dt * speedMult`) so energy boosts decelerate smoothly without backwards jitter; upgraded **Hex Stream** & **Matrix Screensaver** to discrete integer-row fixed-width hex stepping (eliminating character overwrite flicker); locked SVG reactor crest rings to `transform-box: view-box; transform-origin: 46px 46px;` with Web Animations `playbackRate` modulation; and added High-DPI `devicePixelRatio` scaling + 300ms scene crossfades.

HISTORICAL RELEASE

Version 2.8.1 — Revision 42

Built 2026-11-16

Cybernetic Reactor NOC Login Gate — 4 Interactive 60fps Telemetry Scenes, Counter-Rotating Holographic Crest, Keystroke Cipher Meter & Split Armored Blast-Door Unlock

📦 Package: `Daycare_Appliance_Bundle_v2.8.1_r42.tgz` • `McQueen_Monitor_Bundle_v2.8.1_r42.tgz`

⚛️ CYBERNETIC NOC LOGIN ANIMATIONS

- 🌌 **4 Selectable 60fps Cybernetic Login Scenes (`ui.html`):** Switch live on the lock screen between **Neural Mesh** (mouse-tethered ember/cyan nodes & WireGuard packet pulses), **Radial Reactor** (counter-rotating segmented telemetry arcs & expanding core shockwaves), **Hex Stream** (falling hexadecimal/cyber glyph rain), and **Orbital Radar** (sweeping defense reticle scope) — automatically halting `requestAnimationFrame` once unlocked for 0% background CPU use.
- 🔐 **Holographic Reactor Crest, Keystroke Entropy Surge & Blast-Door Reveal:** Features counter-rotating SVG HUD rings around the McQueen emblem, tactical corner brackets, a sweeping biometric scan beam, keystroke-reactive PBKDF2 entropy bar, crimson recoil shake on invalid credentials, and split **Armored Blast Doors** that slide apart with a harmonic chime on `ACCESS GRANTED` .

HISTORICAL RELEASE

Version 2.8.0 — Revision 41

Built 2026-11-16

McQueen Monitor Command-Center Suite — Live War Room Mesh Radar & TV Wallboard, JARVIS Voice/Synth FX, `Ctrl+K` Command Palette, Physical Pi LED Blinker, Sparklines, Streak Trophy, Threat Shield & Matrix Saver

📦 Package: `Daycare_Appliance_Bundle_v2.8.0_r41.tgz` • `McQueen_Monitor_Bundle_v2.8.0_r41.tgz`

🛰️ 7-FEATURE NOC COMMAND-CENTER EXPANSION

- 🛰️ **Live "War Room" Mesh Radar & Office TV Wallboard (`openWarRoomOverlay`):** Full-screen animated WireGuard topology radar with central `mcq-monitor` hub, latency-scaled bidirectional packet pulses, AI telemetry satellites, and live Office TV Wallboard HUD.
- 🔊 **Sci-Fi "JARVIS" Voice Announcer & Web Audio Synth (`toggleJarvisAudio`, `speakNocBriefing`):** Spoken executive morning briefings + automatic Web Audio synthesizer chimes/klaxons on node state transitions.
- ⌨️ `Ctrl + K` **"God-Mode" Command Palette (`openCommandPalette`):** Instant keyboard fuzzy-search launcher across 30+ global NOC and per-appliance actions.
- 💡 **Remote Physical Raspberry Pi LED Blinker (`POST /node/blink-led`):** 1-click `💡 Blink Pi LED (15s)` button on each node card that flashes the Raspberry Pi's physical onboard `ACT` / `PWR` LEDs in an alternating strobe and restores default triggers automatically.
- 🔥 **Zero-Outage Streak Trophy, Sparklines & MRR Milestone Confetti (`api.py`, `ui.html`):** Live ticking customer Zero-Outage Streak counter, inline SVG Ping Latency (`ms`) & CPU Temp (`°C`) sparklines on every node card, and an animated MRR Milestone goal bar with physics confetti bursts.
- 🦹 **Live Perimeter Threat Shield Radar (`GET /threats/feed`):** Tracks 24-hour UFW kernel packet drops and SSH brute-force blocks across Linode Hub + Pi fleet with a live dashboard ticker and full Radar inspection modal.
- 🟩 **Matrix Digital Rain & Retro CRT Phosphor Radar Idle Screensaver (`cycleScreensaverMode`):** Optional 3-minute idle (or Shift+Click instant) Matrix Rain / CRT Radar screensaver with floating live NOC status HUD.

HISTORICAL RELEASE

Version 2.7.2 — Revision 40

Built 2026-11-16

1-Click Rogue-Port Remediation (VNC `:5900` / SMB / RPC + Dynamic Wildcard Killer), Live Button Spinner, Immediate Node Re-Poll & Wait-Until-Ready NOC Self-Update

📦 Package: `Daycare_Appliance_Bundle_v2.7.2_r40.tgz` • `McQueen_Monitor_Bundle_v2.7.2_r40.tgz`

🛡️ INSTANT ROGUE-PORT CLOSURE & SELF-UPDATE POLISH

- 🛡️ **1-Click Rogue-Port Closure & Immediate Re-Poll (`api.py`, `ui.html`, `installDaycare.sh`):** Clicking `🛡️ Close Rogue Port(s) & Harden Now` on a `Security & Intrusion` alert now disables VNC (`:5900` `wayvnc` / `vncserver`), `rpcbind` (`:111`), Samba (`:139` / `445`), `xrdp`, and CUPS, dynamically stops any remaining unexpected wildcard TCP listener, flushes `checks._HW_PROBE_CACHE`, immediately re-polls the node into SQLite so the card turns green right away, and shows live `⏳ Closing Rogue Ports & Hardening...` button feedback.
- ⚡ **Wait-Until-Ready NOC Self-Update (`api.py`, `ui.html`, `systemd`):** Upgraded `/bundles/self-update` to restart both `mcqmon.service` and `mcqmon-api.service` immediately (`RestartSec=2`) and poll until the NOC web server responds `200 OK` before reloading the browser.

HISTORICAL RELEASE

Version 2.7.1 — Revision 39

Built 2026-11-15

Selectable Fleet Rollout Engine with Individual Per-Appliance Progress Bars, Full `.tgz` Streaming Deploy & Automatic Rogue-Port Daemon Lockdown

📦 Package: `Daycare_Appliance_Bundle_v2.7.1_r39.tgz` • `McQueen_Monitor_Bundle_v2.7.1_r39.tgz`

🚀 FLEET SOFTWARE ROLLOUT UX & HARDENING UPGRADES

- ☑️ **Selectable Target Appliances (`GET /fleet/rollout-targets`, `openFleetRolloutModal`):** Replaced the all-or-nothing rollout prompt with an interactive appliance selector showing live installed versions (`v2.6.7 ➔ v2.7.1`), health status, and 1-click presets (☑️ `Select All`, 🧪 `Test / Lab Only`, 🏢 `Customers Only`, ⬆️ `Outdated Only`), plus a 🚀 `Push Update` button on each individual appliance card.
- 📊 **Individual `0% → 100%` Progress Bar Per Selected Appliance (`api.py`, `ui.html`):** Each selected Raspberry Pi now renders its own real-time progress bar, stage badge (`1/5 Connecting` → `2/5 AES-256 Backup` → `3/5 Uploading .tgz` → `4/5 Step [1/7]-[7/7]` → `5/5 Verifying HTTPS`), and elapsed timer alongside the overall fleet summary bar, supporting both **Safe Sequential (Test Nodes First)** and **Simultaneous Parallel** execution.
- ⚡ **Fast `.tgz` Streaming & Automatic Rogue-Daemon Lockdown (`installDaycare.sh`, `api.py`):** Streams the full staged `Daycare_Appliance_Bundle.tgz` (`SKIP_APT_UPGRADE=1` fast mode for ~12s per-node updates) and automatically disables unused wildcard `rpcbind` (`:111`) and Samba (`:139` / `445`) services during updates and 🛡️ `Harden & Audit`.

HISTORICAL RELEASE

Version 2.7.0 — Revision 38

Built 2026-11-15

Automated Monthly Director Peace-of-Mind Digest, Smart Mini-UPS Power-Outage Shield, Customer Wi-Fi/LAN Isolation Audit, Cyber-Insurance Compliance Packet & 1-Click NOC Self-Updater

📦 Package: `Daycare_Appliance_Bundle_v2.7.0_r38.tgz` • `McQueen_Monitor_Bundle_v2.7.0_r38.tgz`

🛡️ MANAGED SECURITY SERVICES, POWER-OUTAGE PROTECTION & COMPLIANCE REPORTING

- 📬 **Automated Monthly "Director Peace-of-Mind" Digest (`api.py`, `ui.html`):** Automatically posts a 1st-of-month **Managed Security, 30-Day Uptime & Encrypted Backup Assurance Summary** directly onto each customer's Daycare App Bulletin Board, plus adds a 📬 `Director Digest` NOC modal for 1-click email composition (`mailto:`), clipboard copy, or on-demand Bulletin push.
- 🔋 **Smart Mini-UPS Battery Telemetry & Safe LUKS2 Auto-Shutdown (`checks.py`, `collector.py`, `installDaycare.sh`):** Detects attached UPS HATs via `/sys/class/power_supply/*` to distinguish **Building Power Outages** (`Discharging` on battery, firing priority-5 `ntfy` alerts) from ISP drops, adds `/usr/local/bin/mcqueen-ups-guard.sh` to cleanly `sync`, lock the LUKS2 vault, and shut down at `<=12%` battery, and adds optional UPS Hardware (`$99`) & Managed Power Shield (`$5/mo`) line items to the Invoice Builder.
- 📡 **Customer Wi-Fi / LAN Broadcast Isolation Audit (`POST /node/lan-audit`):** Performs a live SSH inspection of Hardwired Ethernet vs. Wi-Fi security cipher (`WPA2` / `WPA3` vs. `OPEN`), Wi-Fi signal strength & `power_save` state, subnet CIDR width, default gateway IP/MAC, and active local ARP neighbor exposure, grading facility network isolation from `A+` to `C` with printable PDF findings.
- 🏛️ **Annual Cyber-Insurance & State Licensing Compliance Packet (`Form MT-COMP`) + 1-Click NOC Self-Update (`POST /bundles/self-update`):** Generates a 1-click printable Compliance Attestation Certificate combining live AES-256 DR Restore Drill proof, PII/PIN masking controls, UFW/NTP verification, and provider signature block, plus adds ⚡ `Apply Self-Update to mcq-monitor` inside 📦 `Bundles & Docs`.

HISTORICAL RELEASE

Version 2.6.9 — Revision 37

Built 2026-11-15

McQueen Monitor Continuous Security & Intrusion Shield, NTP Attendance Clock-Drift Guard, 1-Click Security Lockdown & Automated DR Restore Drill

📦 Package: `Daycare_Appliance_Bundle_v2.6.9_r37.tgz` • `McQueen_Monitor_Bundle_v2.6.9_r37.tgz`

🛡️ MANAGED SECURITY, INTRUSION DETECTION & DISASTER-RECOVERY ASSURANCE

- 🛡️ **Continuous Customer Security & Intrusion Shield (`checks.py`, `collector.py`):** Added automated per-poll verification of UFW host firewall enforcement, `:8443` Gateway FastCGI auth liveness (`/cgi-bin/auth.py`), rogue open wildcard TCP port scanning, 24-hour SSH brute-force attempt monitoring, NTP system clock skew (`<120s` for legal attendance timestamp integrity), failed systemd unit detection, and AES-256 `Salted__` backup header validation with priority-5 `ntfy` emergency alerts.
- 🧪 **Non-Destructive Zero-Knowledge DR Restore Drill (`POST /backups/verify`):** Added a 1-click **Run DR Restore Drill** tool in Fleet Ops that performs an in-memory OpenSSL AES-256-CBC PBKDF2 decryption + `tar -tzf` archive and `daycare_state.json` integrity check across every customer's latest snapshot with zero disk writes.
- 🛠️ **1-Click Remote Security Lockdown & Enhanced Customer SLA PDF (`api.py`, `ui.html`):** Added `🛡️ Harden & Audit` (`security_lockdown`) to re-enforce UFW rules, sync NTP time, heal `:8443` FastCGI workers, and run the 11-Point Security Audit remotely, plus live Security Shield telemetry badges on node cards and printable Customer SLA & Security Reports.

HISTORICAL RELEASE

Version 2.6.8 — Revision 36

Built 2026-11-14

McQueen Gateway (`:8443`) Debian systemd `fcgiwrap` ExecStart Override Fix (`HTTP 502` Resolution)

📦 Package: `Daycare_Appliance_Bundle_v2.6.8_r36.tgz` (includes root-level `installDaycare.sh`)

⚡ FASTCGI `FCGIWRAP` WORKER POOL & SOCKET HARDENING

- 🔧 **Debian systemd `ExecStart` Multi-Worker Fix (`HTTP 502` Resolution):** Replaced multi-token `DAEMON_OPTS="-f -c 4"` (which Debian's `/lib/systemd/system/fcgiwrap.service` expands via `${DAEMON_OPTS}` as a single literal argument, causing `fcgiwrap: invalid option -- ' '` and `StartLimitBurst` `HTTP 502` lockouts) with an explicit `ExecStart=` clear and tokenized `ExecStart=/usr/sbin/fcgiwrap -f -c 4` drop-in (`mcqueen-workers.conf`), `StartLimitIntervalSec=0`, and explicit `/run/fcgiwrap.socket` ownership (`www-data:www-data`, `0660`).
- 🛡️ **Self-Healing Gateway Service Recovery:** Automatically resets failed systemd unit counters and immediately starts `fcgiwrap.socket` + `fcgiwrap.service` during both `installDaycare.sh` (including live web-UI updates when `fcgiwrap` is inactive) and `apply-daycare-update.sh`, plus top-level FastCGI JSON exception guards in `auth.py`.

HISTORICAL RELEASE

Version 2.6.7 — Revision 35

Built 2026-11-14

McQueen Gateway (`:8443`) Multi-OS Python 3.9–3.13 Auth Compatibility, FastCGI Socket Recovery & Streaming Media Isolation

📦 Package: `Daycare_Appliance_Bundle_v2.6.7_r35.tgz` (includes root-level `installDaycare.sh`)

🛡️ GATEWAY AUTH COMPATIBILITY & FASTCGI RECOVERY

- 🐍 **Multi-OS Python 3.9–3.13 CGI Compatibility (`gateway_auth_lib.py` , `auth.py` , `files.py` , `telemetry.py`):** Added PEP 563 deferred annotations across all Gateway authentication and helper modules so original Debian 11 Bullseye (`Python 3.9`), Debian 12 Bookworm (`Python 3.11`), and Debian 13 Trixie (`Python 3.13`) appliances initialize `/etc/nginx/.gateway_auth.json` and authenticate on `:8443` without FastCGI `502` syntax errors.
- ⚡ **FastCGI Socket Recovery & Clean Bytecode Packaging:** Explicitly enables and restarts both `fcgiwrap.socket` and `fcgiwrap.service` (`-c 4` worker pool) during `installDaycare.sh` and `apply-daycare-update.sh` , purges cross-version `__pycache__` artifacts, and expands Nginx/CGI chunked streaming & HTTP `206 Partial Content` byte-range support up to `1 GB` .

HISTORICAL RELEASE

Version 2.6.6 — Revision 34

Built 2026-11-14

Parent & Staff Contact Privacy Masking, Per-Row Inline Edit Lock & 1-Click Reveal/Hide All

📦 Package: `Daycare_Appliance_Bundle_v2.6.6_r34.tgz` (includes root-level `installDaycare.sh`)

🔐 SHOULDER-SURFING CONTACT PRIVACY & INLINE EDIT LOCK

- 👁️ **Partial Phone & Email Privacy Masking (`(•••) •••-4567` & `j•••@domain.com` + 👁️):** Masked parent and staff phone numbers, email addresses, and authorized pick-up details behind interactive click-to-reveal 👁️ pills across **Friday Check-In**, **Our Families** (Detailed & Compact 1-Line views), **State Licensing Medical Roster**, **Waitlist & Capacity**, **Child PIN Attendance**, and **Users & Access**, while keeping Parent Names visible.
- 🖍️ **Per-Row Contact Edit Lock & Synchronized Header Toggle:** Added a per-family `🖍️ Edit` / `🔒 Done` button on **Our Families** plus synchronized `👁️ Reveal Contact Info` / `🙈 Hide Contact Info` header toggles across all 6 screens.
- 🔒 **Automatic Re-Lock & Clean Official Printouts:** Automatically resets revealed/unlocked contact state upon logout, inactivity auto-lock, or launching the Tablet PIN Kiosk, while keeping printable Emergency Field-Trip Rosters, Tuition Contracts, and Form W-10 statements unmasked.

HISTORICAL RELEASE

Version 2.6.5 — Revision 33

Built 2026-11-12

Tax & Revenue Chart Engine Fix, PIN Masking & Security Hardening, In-Page Kiosk Staff Unlock & NOC 5-Theme Engine

📦 **Package:** `Daycare_Appliance_Bundle_v2.6.5_r33.tgz` **(includes root-level** `installDaycare.sh` **)**

📊 TAX ENGINE, PIN MASKING & SECURITY GUARDRAILS

- 📊 **Tax Page, 12-Month Revenue Chart & Spending Checklist Fix:** Resolved `getCurrentWeekIndex()` lookup inside `renderBusinessTaxEstimates()` so Estimated Tax Saved, 12-Month Revenue Cash-Flow bars, Quarterly 1040-ES rows, Monthly Spending Checklist YTD totals, and 2-decimal IRS mileage rates render cleanly.
- 🔐 **4-Digit PIN Masking & Security Guardrails:** Masked Child & Staff 4-digit PINs (`••••` + 👁), removed public login default-password hints, added 60s brute-force cooldowns on system/recovery logins, and added confirmation dialogs on module toggles, inline contact edits, and All-Parents Broadcasts.
- 📲 **In-Page Kiosk Staff Exit & Licensing Polish:** Replaced browser `prompt()` on Kiosk Staff Exit with an inline password modal, updated Licensing Immunization KPI to report *Pending Dates* when blank, synced default drill evacuation count to enrolled headcount, and filtered `<5 min` / after-hours test punches from Late Pick-Up alerts.

HISTORICAL RELEASE

Version 2.6.4 — Revision 32

Built 2026-11-11

Gateway (`:8443`) Multi-Worker `fcgiwrap` Concurrency & Out-of-Band Live Updater Loopback Fix

📦 **Package:** `Daycare_Appliance_Bundle_v2.6.4_r32.tgz` **(includes root-level** `installDaycare.sh` **)**

⚡ GATEWAY FASTCGI CONCURRENCY & LIVE UPDATER FIX

- ⚙️ **Multi-Worker** `fcgiwrap` **Pool (** `-c 4` **):** Configured `/etc/default/fcgiwrap` and `/etc/systemd/system/fcgiwrap.service.d/mcqueen-workers.conf` (`DAEMON_OPTS="-f -c 4"`) in `installDaycare.sh`. Eliminates the single-worker `fcgiwrap` loopback deadlock when `/cgi-bin/files.py?action=apply_tgz_update` or `/cgi-bin/action.sh?action=security_audit` invokes `verify-daycare-security.sh` (`curl https://127.0.0.1:8443/cgi-bin/files.py`), and enables parallel `vnstati` chart + telemetry streaming.
- 🛡️ **Loopback Audit Timeout & Bootstrap Upgrade Fallback:** Added `--connect-timeout 3 --max-time 4/5` guards and busy single-worker bootstrap verification to `verify-daycare-security.sh` , plus `stdin=subprocess.DEVNULL` isolation in `files.py` , so upgrading existing `v2.6.3 (Rev 31)` nodes directly through the `:8443` Out-of-Band Updater completes in ~12 seconds with zero timeout.

HISTORICAL RELEASE

Version 2.6.3 — Revision 31

Built 2026-11-11

McQueen Gateway (`:8443`) Zero-Secret Session Security, Zero-Wear RAM Telemetry & Out-of-Band Recovery Guardrails

📦 **Package:** `Daycare_Appliance_Bundle_v2.6.3_r31.tgz` **(includes root-level** `installDaycare.sh` **)**

🛡️ MCQUEEN TECHNOLOGIES GATEWAY (`:8443`) SECURITY, TELEMETRY & RECOVERY UPGRADES

- 🔐 **Zero-Secret Server-Side Campfire Auth & Session Security:** Removed all client-side plaintext passphrases (`SECRET_KEY`), hardcoded `Basic` auth headers (`CGI_AUTH_HEADER`), and pre-rendered customer network/database metadata from `www_https/index.html` and `dashboard-template.html` . Added `/cgi-bin/auth.py` and `/usr/local/bin/gateway_auth_lib.py` enforcing PBKDF2-HMAC-SHA256 / SHA-512 credential verification, 3-strike 60-second per-IP lockouts + incident audit tracking in `/run/mcqueen-gateway/auth_state.json` , `HttpOnly; Secure; SameSite=Strict` HMAC-SHA256 session cookies (`mac_gw_session`), 15-minute inactivity auto-lock, and backwards-compatible HTTP Basic Auth on `/cgi-bin/*` .
- ⚡ **Zero MicroSD Flash Wear & Live RAM Telemetry Polling:** Eliminated the `* /usr/local/bin/update-netstats.sh` cron job that rewrote `/var/www/https/index.html` , `/var/www/http/index.html` , and 3 `vnstati` PNGs to persistent SD storage 1,440 times/day. Telemetry JSON and `vnstati` charts now render strictly into RAM `tmpfs` (`/run/mcqueen-gateway/`) via `/cgi-bin/telemetry.py` , polling every 15s while unlocked & tab-visible with manual 🔄 `Refresh` , dynamic latency/TTFB progress bars, and live CPU Temp, Disk Usage, Power/Throttle, LUKS2 Vault, and Daycare DB health badges.
- 🛠️ **Out-of-Band Appliance Recovery & Atomic File Guardrails (`Ops` & `Files`):** Upgraded `files_root_helper.py` and `/cgi-bin/files.py` with atomic `.gw_tmp` + `fsync` + `os.replace` writes, automatic `.bak` backups, `www-data:www-data` ownership preservation under `/var/www/` , *JSON syntax validation before saving* `.json` *files, automatic* `nginx -t` *config validation + rollback on invalid* `/etc/nginx/` edits, chunked 64 KB streaming downloads, streaming file uploads, an Out-of-Band `.tgz` Bundle Live Updater (`apply-daycare-update.sh`), 1-Click Daycare DB Snapshot Restore (creating a pre-restore safety backup first), LUKS2 Vault & 11-Point Security Audit triggers in `Ops` , and Superhero Jaxon's missing `files` tab brief.

HISTORICAL RELEASE

Version 2.6.2 — Revision 30

Built 2026-11-10

Dynamic Customer Web Root (`/var/www/<hostname>`), LUKS2 Vault Symlink Protection & Printable Customer Sales Flyer

📦 **Package:** `Daycare_Appliance_Bundle_v2.6.2_r30.tgz` **(includes root-level** `installDaycare.sh` **)**

🖥️ OS, LUKS2 VAULT & APPLIANCE PROVISIONING UPGRADES

- 📁 **Dynamic Customer Directory (`/var/www/<hostname>`):** Provisioning (`installDaycare.sh`), Nginx (`/etc/nginx/sites-available/<hostname>`), systemd (`mcqueen-daycare-api.service`), LUKS2 vault bind-mounts, and the `:8443` Gateway File Browser now dynamically use `/var/www/<customer-hostname>` instead of hardcoding `/var/www/ccdaycare` , while maintaining a backwards-compatible `/var/www/ccdaycare -> /var/www/<hostname>` symlink.
- 🔐 **LUKS2 Vault Symlink Unmount Guard:** Added `[[ ! -L "/var/www/ccdaycare" ]]` checks before `mountpoint -q` and `umount -l` in `setup_luks_vault.sh` (`mcqueen-vault-ctl`) and `installDaycare.sh` so unlocking a migrated node never unmounts the target `/var/www/<hostname>` mountpoint via the compatibility symlink.
- 📄 **Printable 1-Page Customer Sales & Security Flyer (`McQueen_Daycare_Sales_Sheet.html`) & Legal Form Page 1 Fit:** Added the printable US Letter Customer Sales & Security Flyer to the NOC Document Library and updated the MT-100 Page 1 metadata strip to a 2x2 grid so hardware serial numbers never clip horizontally.

HISTORICAL RELEASE **Version 2.6.1 — Revision 29** Built 2026-11-06

Split-Payment Installment Log, 1-Click Batch W-10 Tax Packet, Anonymous Illness Exposure Notice & Live Net Profit Snapshot

📦 **Package:** `Daycare_Appliance_Bundle_v2.6.1_r29.tgz` **(includes root-level** `installDaycare.sh` **)**

🏫 DAYCARE WEB APPLICATION UPGRADES

- 💳 **Split-Payment & Partial-Payment Log per Week:** Click 💳 **Split** on any Friday Check-In row to log multiple partial payments or separate co-parent methods (e.g., `$100 Cash + $115 Venmo` or `Parent 1 + Parent 2`), automatically summing the total for the 52-Week Grid, Weekly Official Receipts, and Schedule C method breakdowns.
- 🧾 **1-Click Year-End W-10 / Form 2441 Tax Packet Batch Print:** Click 🖨️ **Batch Print All W-10 Statements (1 Per Page)** on the Fees & Tax Reports tab to print individual single-page Form W-10 / Form 2441 Dependent Care statements (with Scan-to-Phone QR codes and automatic P1/P2 co-parent splits) for all enrolled families at once.
- 😳 **Anonymous Contagious Illness Exposure Notice & Door Sign Generator:** In the State Licensing Binder, click 📢 **Exposure** on any illness log (or the section header) to generate a privacy-compliant parent broadcast or 1-page printable classroom door notice with symptoms, exposure date, sanitization actions, and 24-hour fever-free return policy — without ever naming the child.
- 📊 **Live Weekly & Monthly Net Profit + Tax-Savings Snapshot Card:** Real-time owner take-home income pace, estimated tax dollars saved YTD by logged deductions, and a visual stacked breakdown bar (Meals, Supplies, Mileage, Payroll & Form 8829 Home %) on the Fees & Tax Reports tab (toggleable via `profitSnapshotEnabled`).

HISTORICAL RELEASE

Version 2.6.0 — Revision 28

Built 2026-11-06

Collapsible UI Sections & Compact Roster, Kiosk Parent Family Pass, IRS Mileage Logger ($0.70/mi), Staff PIN Time-Clock, Infant Care Toggle & Live Allergy Cross-Check

📦 Package: `Daycare_Appliance_Bundle_v2.6.0_r28.tgz` (includes `installDaycare.sh`)

🖥️ OS, NIGHTLY ORCHESTRATOR & MCQUEEN MONITOR NOC UPGRADES

- **2:00 AM Central Safe Staged Nightly Maintenance Cron (`/usr/local/sbin/mcqmon-nightly-orchestrator`):** Automatically snapshots, updates, and health-checks `mcqueentest` first at 2:00 AM America/Chicago before touching production `ccdaycare`, followed by the 3-2-1 off-Linode mirror.
- **McQueen Monitor NOC Collapsible Node Cards & 15-Minute Session Security:** Added Expand/Collapse All node cards, compact status bars, 5 deep health checks (`portal_https`, `app_api_state`, `tailscale_direct`, `offsite_mirror`, `backup_freshness`), and strict 15-minute inactivity + tab-close logout enforcement.

🏫 DAYCARE WEB APPLICATION UPGRADES

- 🗂️ **Collapsible Dashboard / Licensing Sections & Compact Family Roster + Instant Search:** Expand/collapse sections on the Home Command Center and State Licensing Binder, filter families by name/child/phone/PIN/status, and toggle between Compact 1-Line View and Detailed Edit View.
- 👨‍👩‍👧 **PIN-Protected "Parent Family Pass" on Tablet Kiosk:** Parents entering their 4-digit PIN can view their child's daily Kid Gram, YTD tuition paid, and an instant Scan-to-Phone QR code FSA / Form W-10 receipt right at pick-up.
- 🚗 **IRS Daycare Mileage Logger (`$0.70/mi`) & 📷 Receipt Photo Attachments:** Log daycare business trips with 1-click Saved Favorite Trips that auto-sync into Schedule C, and attach compressed receipt photos directly to the Monthly Spending Checklist.
- ⏱️ **Staff PIN Time-Clock Connected to Payroll:** Staff clock in/out with a 4-digit PIN or 1-click button and import unbilled hours directly into Hours Worked when running payroll.
- 🥜 **Live Classroom Allergy Cross-Check Banner & 🍼 Infant Care (`<18m`) System Toggle:** Real-time classroom food allergy & EpiPen banner on the Meal Tracker and Weekly Curriculum Planner with automatic menu conflict alerts, plus a `c.mcqueen` / `emergency` toggle (`infantCareEnabled`) to hide all infant-specific requirements and sequentially renumber sections for toddler/preschool-only programs.

HISTORICAL RELEASE

Version 2.5.3 — Revision 27

Built 2026-11-02

Online Website Inquiry Import, Remote Anywhere Web Portal ($10/mo), Check-Markable Invoice Line Items & 23 In-Home Daycare Extensions

📦 Package: `Daycare_Appliance_Bundle_v2.5.3_r27.tgz`

🌐 WEBSITE INQUIRY IMPORT, REMOTE PORTAL & NOC BILLING

- 🌐 **Online Website Inquiry Import (`🌐 Import Website Inquiry`):** Added a 1-click inquiry importer in both the 📋 **Waitlist & Capacity** and 👨‍👩‍👧 **Our Families** tabs. Staff can paste raw website contact form emails (`Your Name`, `Your Email`, `Subject`, `Your Message`) or fill in the inquiry fields to convert leads directly into Waitlist entries or Active Enrolled Families.
- 🌐 **Optional Remote Anywhere Web Portal Add-On (`$10.00/mo` or `$100.00/yr`):** Enables zero-trust HTTPS access (`https://<node>.mcqueentechnologies.com`) from home or mobile over the encrypted Tailscale/WireGuard tunnel while keeping 100% of data stored on the on-premise Raspberry Pi.

- 🧾 **Check-Markable Customer Invoice & Receipt Line Items (`McQueen Monitor`):** Added interactive check-markable service line items (`Managed Monthly $29` , `Remote Anywhere Web Portal $10` , `One-Time Installation $299` , `On-Site Technician Visit $75` , `Custom On-Premise Feature $100` , `Annual Prepay $290/$100` , `Late Fee $15` , `Unreturned/Damaged Kit $350` , plus 2 custom line items) that dynamically build an itemized receipt table and auto-sum the invoice total.

💳 TUITION, CONTRACTS, TAX & PARENT COMMUNICATIONS (11 FEATURES)

- 📢 **1-Click All-Parents Broadcast (BCC Email + Group SMS + Bulletin Board Pin):** Send instant Weather Closure, 2-Hour Delay, Classroom Illness, Utility Alert, or Event broadcasts to all active parents via BCC Email or Group SMS and optionally pin to the Home Dashboard & Kiosk Bulletin Board.
- 📨 **1-Click Batch Friday Reminders & `✓ Sent [Time]` Badge:** Queue every family with an open or past-due balance for the selected Friday, send via BCC Email or individual SMS/Email, and stamp a clickable `✓ Sent [Date/Time]` badge on each family's Friday row.
- 📈 **Annual Tuition Rate Increase & COLA Wizard:** Preview a flat dollar (`+$`) or percentage (`+%`) tuition adjustment across all enrolled families, apply new rates in 1 click, and send 30-day parent rate adjustment notices.
- 👧 👴 **Sibling Discount & Split-Custody Co-Parent Billing (`P1 W-10` / `P2 W-10`):** Configure per-family sibling discounts and co-parent split billing percentages (`100%` , `50/50` , `60/40` , `70/30`) with separate `P1 W-10` and `P2 W-10` tax statements for divorced or separated parents.
- 🏛️ **State / Agency Subsidy (CCMS/CCS) Split Co-Pay & Security Deposit Escrow Tracker:** Deducts state/agency subsidy coverage from parent co-pays automatically, tracks registration fees and held security deposits, and provides a 1-click **Apply Deposit** button on Friday Check-In.
- 🏖️ **Vacation Week / Holding-Fee Credit Toggle (`🏖️ Vac X/2`):** 1-click toggle on Friday Check-In that applies a family's annual vacation week credit (`100% Free` or `50% Holding Fee`) and tracks YTD vacation weeks used.
- 📜 **Family Payment History Ledger & Check # / Reference Memo Log:** Inline `Check # / Ref / Note` field on every Friday Check-In row plus a printable full-year **Family Payment & Check # Reference Ledger** modal.
- 📋 **1-Click Printable Parent Enrollment & Tuition Contract Agreement Packet:** Generates a ready-to-sign enrollment & financial agreement pre-filled with child/parent contact details, tuition & subsidy co-pay schedule, late payment/pick-up fee policy, and 24-hour fever-free policy.
- 🏠 **Interactive IRS Form 8829 Time-Space % Calculator:** Calculates `Space % × Time % = Time-Space %` from daycare square footage and annual care/prep hours (with 1-click auto-fill from logged attendance) and syncs directly to the Schedule C Business Tax Estimator.
- 📈 **12-Month Tuition Revenue vs. Collected Cash-Flow Chart:** Visual monthly bar chart in the Tax & Fees tab comparing scheduled monthly tuition against actual collected cash flow and annual collection rate.
- 🧮 **1-Click Master Accountant CSV Bundle Export:** Exports a unified multi-section CSV file (Family Tuition & Subsidy Co-Pay Ledger, Schedule C Deductions & Form 8829 Time-Space %, CACFP Standard Meal Allowance Totals, and Staff W-2/1099 Payroll Summary) for your CPA.

📲 KIOSK, CLASSROOM CARE, SAFE-SLEEP & STATE LICENSING (12 FEATURES)

- 💳 **Balance Due Alert & Scan-to-Pay QR Code on Tablet PIN Kiosk:** Displays live Friday tuition status (`🌟 Paid Up` or `💳 $XXX Due`) and an expandable **Scan-to-Pay QR Code** when parents enter their 4-digit PIN on the Kiosk.
- 💬 **1-Tap Parent Drop-Off Quick Note Chips on Kiosk:** Parents checking in on the Kiosk can tap quick chips (`😴 Slept poorly` , `🍳 Ate breakfast` , `🦷 Teething` , `💊 Morning meds` , `👴 Alt pick-up` , `🕒 Early pick-up`) that immediately display on the Live Attendance Roster and Home Morning Briefing.
- ✍️ **Digital Finger-Sign Signature Pad on Kiosk Check-In/Out:** Touch/mouse signature pad on the Kiosk confirmation screen saves parent initials (`inSignature` / `outSignature`) with each attendance record and prints them in the Attendance Log & PDF export.
- 🔗 **Diaper / Wipe / Extra Clothes "Running Low" 1-Click Parent Ping:** 1-tap 🔗 , 🧻 , and 👕 supply flags on the Live Attendance Roster (synced with Daily Kid Gram) with instant `📲 SMS` and `✉️ Email` parent restock ping buttons.
- 📸 **Photo / Milestone Snapshot Attachment on Daily Kid Gram:** Attach a client-side auto-compressed daily photo (`460px` JPEG) to any child's Daily Kid Gram card, Kiosk check-out summary, and printable Kid Gram sheet.

- 🌡️ **24-Hour Fever-Free / Contagious Illness Return-to-Care Tracker:** Automatically activates a 24-hour return-to-care countdown when an `Illness / Fever Sent Home` report is logged (or via manual toggle), displaying active holds on the Attendance Roster, Tablet PIN Kiosk, Licensing Binder, and Morning Briefing.
- 💤 **15-Minute Infant Safe-Sleep Check Timer & Observation Log:** Built-in `15:00` countdown timer with Web Audio chime and 1-click safe-sleep position/breathing observation logging for state licensing compliance.
- 💊 **Parent Medication Authorization & Daily Dosage Schedule:** Tracks signed parent medication authorizations, surfaces due doses on the Morning Briefing & Attendance Roster, and logs administered doses into the Incident/Medication Log in 1 click.
- 🩹 **Printable Parent Sign-Off Slip & 1-Click SMS/Email for Incident, Booboo & Medication Log:** Added Staff Initials / Witness plus 1-click `🖨️ Slip`, `💬 SMS`, and `✉️ Email` buttons on every row of the Incident / Illness / Medication Log.
- 💉 **Child Immunization & Annual Physical Exam Expiration Tracker:** Tracks both Immunization Expiration Date and Annual Physical Exam Expiration Date with automatic 30-day warnings and a 1-click `✉️ Remind Parent` button.
- 🪪 **Staff Pediatric CPR/First-Aid, Background Check & Annual Training Hours Tracker:** Tracks provider and assistant certification expiration dates and annual continuing education clock hours with automatic 30-day renewal alerts on the Morning Briefing.
- 🗓️ **Daycare Holiday & Scheduled Closure Calendar Banner:** Includes a `🎉 + Load Standard Holidays` button in the Licensing Binder and automatically displays upcoming closures (within 21 days) on the Morning Briefing, Tablet PIN Kiosk, Weekly Tuition Receipts, and Parent Reminders.

HISTORICAL RELEASE

Version 2.5.2 — Revision 26

Built 2026-10-30

Zero-Knowledge Off-Site Backups, SD Wear Protection, Fleet Rollout, Outgoing Email Config & Extra Day Fee

📦 Package: `Daycare_Appliance_Bundle_v2.5.2_r26.tgz`

🖥️ OS, SECURITY & APPLIANCE INFRASTRUCTURE

- **Automated Zero-Knowledge AES-256 Off-Site Backups & 1-Click Pi Restore:** Each Raspberry Pi encrypts `/var/www/ccdaycare/data` with AES-256-CBC (PBKDF2, 100,000 iterations) before transit to `mcq-monitor` (`/opt/mcqmon/backups/`) at 02:00 UTC nightly with 30-day retention and 1-click disaster recovery to any replacement Pi.
- **MicroSD Flash Wear Protection:** Configured RAM-backed `tmpfs` for `/var/log/nginx` (`32M`), volatile `systemd-journald` (`24M` cap), and `ext4 noatime,commit=600` rootfs tuning in `installDaycare.sh` to reduce microSD card write wear by ~80%.
- **LUKS2 AES-256-XTS Hardware-Bound SD Card Vault:** Added `/usr/local/bin/setup_luks_vault.sh` and 1-click NOC Encrypt / Lock / Unlock controls with a live streaming progress bar.
- **1-Click Fleet-Wide Software Rollout with Auto-Rollback & Package Upgrades:** Added multi-node rollout engine in `mcq-monitor` that snapshots each Pi first, deploys the release, verifies `HTTPS :443` & `/api/state`, and automatically rolls back on failure; updated `installDaycare.sh` and `install_mcq_monitor.sh` to perform non-interactive `apt-get upgrade` and dependency checks.

🏫 DAYCARE WEB APPLICATION & UI FEATURES

- 👥 **Dual Parent / Guardian 1 & 2 Names, Emails & Phone Numbers:** Added dedicated Parent/Guardian 1 and Parent/Guardian 2 Name, Email, and Phone fields in the Add/Edit Family Modal, inline Our Families Roster, Parent Message Modal, Tablet PIN Kiosk quick-select chips, and Emergency Roster PDF; outgoing emails and SMS automatically include both parents when on file.
- ✉️ **Daycare Outgoing Email Account & Sender Method in Quick Settings:** Added a dedicated **Daycare Outgoing Email Account & Sender Method** card in ⚙️ **Quick Settings** to configure the daycare sender email (e.g. `cedarandcloverpreschool@gmail.com`) and force Gmail `authuser` account selection so parent reminders, receipts, Kid Grams, and W-10 statements never send from a personal email account.

- 🗓️ **Extra Day Fee ($75.00 Default) & Strict Post-Friday Past-Due Logic:** Added a 1-click `🗓️ $75 Extra Day` preset button and dropdown option in the Quick Fee Modal and Fees & Adjustments tab; refined due-date logic so Friday tuition is treated as **Due Today (`🗓️ DUE THIS FRI` / Upcoming Reminder)** on Friday and is only flagged **Past Due (`💗 PAST DUE`)** after Friday has passed (unless carrying an unpaid balance from a prior Friday).
- 🎒 **Grab-and-Go Classroom Emergency & Field Trip Roster:** Added 1-click printable emergency sheet combining Child DOB/PIN, Parent Phones, Allergies/EpiPen/Physician, Authorized Pick-Up Adults, Red Custody/Unauthorized Pick-Up Alerts, and 3-stage headcount checkboxes.
- 📱 **Scan-to-Phone QR Code & 1-Click Email/SMS for Weekly Receipts & Form W-10 Tax Statements:** Added pure-offline SVG QR code badges and 1-click Email/SMS buttons on weekly receipts and individual family Form W-10 / Form 2441 Dependent Care tax statements.
- 📢 **Remote NOC Maintenance & Subscription Banner:** Added live 10-second polling for displaying polite system maintenance or billing notices pushed from `mcq-monitor` at the top of the Daycare app.

HISTORICAL RELEASE

Version 2.5.1 — Revision 25

Built 2026-10-27

White-Label McQueen Systemd Services, Legal Forms Suite (`MT-100` – `MT-104`) & NOC Web SSH Integration

📦 Package: `Daycare_Appliance_Bundle_v2.5.1_r25.tgz`

🖥️ OS, SECURITY & APPLIANCE INFRASTRUCTURE

- **White-Label McQueen Systemd Services (`mcqueen-daycare-api` & `mcqueen-daycare-mdns`):** Renamed internal systemd units and dynamic `%H.local` service descriptions to McQueen Technologies naming, automatically retiring legacy `ccdaycare-*` units on upgrade.
- `NetworkManager-wait-online.service` **Boot Hardening:** Added `/etc/systemd/system/NetworkManager-wait-online.service.d/override.conf` (`nm-online -q --timeout=15`) so dual-interface (`eth0` + `wlan0`) Raspberry Pi appliances never mark `systemd` degraded at boot.
- **NOC Embedded Web SSH Key Pre-Authorization:** Included the `mcqmon-noc-terminal` Ed25519 key in `authorized_keys` so brand-new deployments immediately work with the `mcq-monitor` browser SSH terminal.
- **Live Fleet Version Telemetry (`/VERSION.json`):** `mcq-monitor` now polls `/VERSION.json` on every customer appliance to display the live installed version and revision (`v2.5.1-r25`) on each node card.

🏫 DAYCARE WEB APPLICATION & UI FEATURES

- 📄 **Printable Legal Forms & Service Contract Suite (`MT-100` – `MT-104` at `/legal.html`):** Exact single-page `8.5" × 11"` US Letter printable agreements with signature blocks on every form.

HISTORICAL RELEASE

Version 2.5.0 — Revision 24

Built 2026-10-27

Home Command Center, Admin Bulletin Board, 5 In-Home Daycare Modules & SSL Key Pin Preservation

📦 Package: `Daycare_Appliance_Bundle_v2.5.0_r24.tgz`

🖥️ OS, SECURITY & APPLIANCE INFRASTRUCTURE

- **SSL/TLS Key Pin Preservation (`installDaycare.sh` Step 3):** Reuses the existing `/etc/nginx/ssl/ccdaycare.key` private key whenever re-signing SAN certificates during software updates (unless `--fresh-certs` is explicitly passed), preventing Trust-On-First-Use (TOFU) `KEY CHANGED` alerts on `mcq-monitor` (`:443` & `:8443`).
- **Tailscale Mesh VPN & OpenSSH Coexistence:** Enforces `tailscale set --operator=cody --ssh=false --accept-routes=false` so OpenSSH (`:22`) handles SSH key and password authentication reliably without browser-auth hangs.

- **NetworkManager & Avahi mDNS Isolation:** Configures `/etc/NetworkManager/conf.d/99-tailscale-unmanaged.conf` and excludes `tailscale0` from Avahi mDNS reflection while keeping LAN `.local` hostname discovery active.
- **Streaming `.tgz` Software Update Endpoint (`/api/update-software`):** Supports byte-level XHR upload progress, validates `installDaycare.sh` inside the uploaded archive, and executes `/usr/local/bin/apply-daycare-update.sh` while preserving `/var/www/ccdaycare/data/daycare_state.json`.
- **11-Point Automated Security Audit:** Verifies UFW firewall lockdown (`22/tcp` , `443/tcp` , `8443/tcp`), root SSH denial, `0600` SSL private key permissions, localhost-only API binding (`127.0.0.1:8085`), daily 2:00 AM database backups, and 256-bit PBKDF2-PSK Wi-Fi encryption.

🏫 DAYCARE WEB APPLICATION & UI FEATURES

- 🏠 **Home Command Center & Tool Launcher (`#tab-dashboard`):** New default landing screen with categorized tool cards and live metric badges across Tuition, Classroom, Licensing, Capacity, Payroll, and Admin tools.
- 📌 **Daycare Admin & Staff Bulletin Board:** Pinned announcement board at the top of the Home Dashboard with priority categories, Admin post composer, Pin/Unpin controls, and per-user `👍 Mark as Read` read receipts.
- 🌤️ **Personalized Morning Briefing & 🎂 Upcoming Birthday Celebrations:** Time-of-day greeting bar with live status pills and automatic 45-day upcoming child birthday alerts displayed on both the Home Dashboard and Tablet PIN Kiosk.
- 🧾 **Branded Printable Weekly Tuition Invoices & Official FSA Receipts:** 1-click `🧾 Receipt` / `🧾 Invoice` button on every 🌸 **Friday Check-In** row with Provider EIN, Invoice #, itemized Carry-Over + Tuition + PNO/Late Fees, payment method, and signature line.
- 🪪 **Authorized Pick-Up Adults & Safety ID Alerts:** Per-family Authorized Pick-Up list and ID restriction alerts displayed in the 📲 **Child PIN Check-In / Out** live roster and as 1-tap quick-select buttons on the Tablet PIN Kiosk.
- 🎨 **Custom Kiosk Welcome Message & 🔔 Web-Audio Confirmation Chime:** Customizable daily parent welcome banner on the Tablet PIN Kiosk plus pleasant Web Audio API confirmation chimes on Check-In, Check-Out, and invalid PIN entry.
- **5 Toggleable In-Home Daycare Feature Modules:**
  - 🍎 **IRS Standard Meal & Snack Allowance Tracker (CACFP / Schedule C Auto-Sync)**
  - 🏷️ **Daily "Kid Gram" / Parent Pickup Summary & Kiosk Supply Alerts**
  - 🧳 **State Licensing Inspection Binder (Allergies, Immunization Exp., Incidents & Safety Drills)**
  - ⏰ **Automatic Late Pick-Up Fee Detector ($25.00 Flat Default, Tied to Kiosk Check-Out)**
  - 📋 **Prospective Family Waitlist & Infant/Toddler Ratio Capacity Planner**
- **Live Software Update Progress Bar & Dynamic Backup Filenames:** Real-time `0%` → `100%` progress bar (`MB / Total MB` , stage labels, and elapsed timer) in ⚙️ **Quick Settings**, plus dynamic backup/export filenames matching the active Daycare Name.

HISTORICAL RELEASE

Version 2.4.0 — Revision 18

Built 2026-10-24

Child 4-Digit PIN Tablet Kiosk, Staff Payroll (W-2 / 1099-NEC) & Multi-Appliance Provisioning

📦 Package: `Daycare_Appliance_Bundle_v2.4.0_r18.tgz`

🖥️ OS, SECURITY & APPLIANCE INFRASTRUCTURE

- **Multi-Customer Provisioning Flags:** Added `--new-appliance`, `--hostname`, and `--daycare-name` flags to `installDaycare.sh`.
- **McQueen Technologies Gateway (`:8443`):** Added hardware health telemetry, vnStat network graphs, and HTTP Basic Auth lockdown.
- **Automated Daily Database Backups:** Configured 2:00 AM cron job with 30-day retention in `/var/www/ccdaycare/data/backups`.

🏫 DAYCARE WEB APPLICATION & UI FEATURES

- 📲 **Child 4-Digit PIN Check-In / Check-Out & Full-Screen Tablet Kiosk Mode**
- 💼 **Employee & Contractor Payroll + Tax Tracker (W-2 & 1099-NEC)**
- 🚌 **Customizable Weekly Operating Hours & Curriculum Planner**

HISTORICAL RELEASE

Version 2.0.0 — Revision 10

Built 2026-10-20

Core 52-Week Friday Tuition Ledger, Role-Based Auth & Schedule C / Form 2441 Tax Engine

📦 Package: `Daycare_Appliance_Bundle_v2.0.0_r10.tgz`

🖥️ OS, SECURITY & APPLIANCE INFRASTRUCTURE

- **Raspberry Pi HTTPS Appliance Stack:** Nginx TLS 1.2/1.3 on ports `443` and `8443`, Python localhost API (`127.0.0.1:8085`), and Avahi `.local` mDNS discovery.
- **SSH & Physical Console Hardening:** Disabled root SSH login and enforced password login on local TTY/desktop sessions.

🏫 DAYCARE WEB APPLICATION & UI FEATURES

- 🗓️ **52-Week Friday Tuition, Carry-Over & Parent's Night Out Ledger**
- 📊 **Parent Form 2441 Tax Statements & Business Schedule C / Form 1040-ES Tax Estimator**
- 🔐 **Salted SHA-256 Multi-User Authentication (Admin, Staff & Emergency Recovery)**
