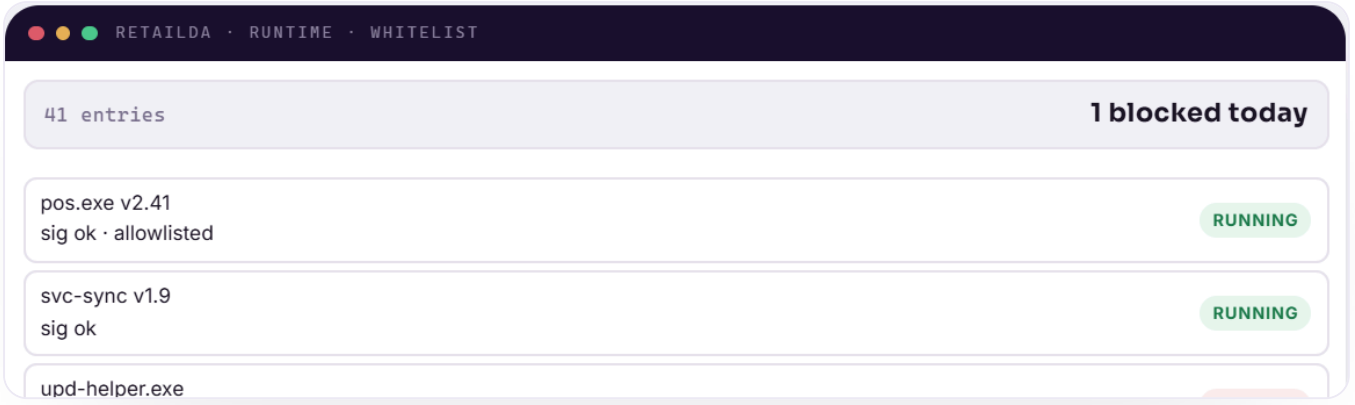
RetailDA

PRODUCT DATASHEET · SECURITY & COMPLIANCE

Signed Runtime & Whitelisting

C-extension in-memory encryption, WMI hardware binding & NTFS icacls lockdown.

Every RetailDA™ runtime ships code-signed, AV-whitelisted and hardened across four production layers: native bare-metal Apache + PHP 8.x + MySQL execution, C-extension in-memory bytecode encryption, Windows WMI Motherboard-UUID hardware binding (0ms cached verification), and Inno Setup NTFS icacls Read-Only code directories.



97	5 yrs	Air-gap	₹20L
terminals live on one deployment	production on the original build	proven at defence sites	lost in 48h — none since

WHAT IT CHANGES ON THE FLOOR

C-extension in-memory encryption

Proprietary ERP files rest on disk as unreadable ciphertext and execute directly in RAM via a compiled C-extension loader — zero exposed source code and $0 decoder fees.

WMI Motherboard-UUID binding (0ms lag)

Cryptographically binds the licence to the physical server's motherboard UUID via Windows WMI attestation, cached daily for 0ms runtime latency — cloned drives refuse to boot.

NTFS icacls Read-Only code perimeter

Inno Setup NTFS icacls security rules lock the application code directory as strictly Read-Only while keeping MySQL ledger writes and uploads at 100% full speed.

Native bare-metal WAMP runtime

Local Apache + PHP 8.x + MySQL execution with zero virtualization lag or container throttling — plus code-signed binaries pre-whitelisted with major AV engines.

In production since 2021 — retail, defence, education, manufacturing & hospitality

AVAILABILITY

Scale plan and above

RUNS ON

Any device · offline-first · your infrastructure or ours

COMPLETE CAPABILITY SET — 12 FEATURES

- ✓ Native bare-metal WAMP runtime (Apache + PHP 8.x + MySQL) — zero virtualization lag
- ✓ Windows WMI Motherboard-UUID hardware binding — cached daily for 0ms performance lag
- ✓ Every binary code-signed
- ✓ Launch-time integrity self-check — tampered builds refuse to run
- ✓ Signed update channel
- ✓ Rollback support
- ✓ C-extension in-memory code encryption — unreadable ciphertext on disk, compiled RAM execution
- ✓ Inno Setup NTFS icacls security rules — Read-Only code directory, 100% full-speed MySQL ledger writes
- ✓ Known-good hashes whitelisted with major AV engines
- ✓ Staged rollouts per site — never mid-rush
- ✓ Version pinning
- ✓ Update audit trail

BUILT FOR

All industries

THE ECONOMICS

	RETAILDA™	PER-SEAT SAAS PATTERN
Pricing unit	Per site — staff accounts unlimited	Per user — every hire compounds the bill
Modules	Toggle on what you need, priced like apps	Per-module add-ons stacked on per-seat tiers
Connectivity	Runs fully offline — forever, if you want	No link, no sale
Data	One database per client — export anytime	Multi-tenant pool, export rituals

How Signed Runtime & Whitelisting compares

Verified against current competitor pricing and feature documentation — retailda.com/compare#signed-runtime

ALTERNATIVE	WHERE RETAILDA™ WINS
Any self-hosted software	Code-signed builds with launch-time integrity checks — a tampered binary refuses to run.
Vendor trust	Signed update channel — you verify the code, not the vendor's word.

DEPLOYMENT MODELS

MODEL	WHAT IT MEANS
Shared cloud	Fastest start — provisioned, patched and monitored for you. Per-site pricing, unlimited staff.
Private cloud	Your own isolated instance — one client, one database. No multi-tenant pooling.
TolsTek Host	On-premise enterprise server — ECC memory, power-loss-protected NVMe, hardware RAID. Also runs the local AI daemons.
Air-gapped	Zero external calls, permanently — proven at defence installations where isolation is mandatory.

WORKS WITH — the platform fabric

UPI & QR · EMV terminals · ESC/POS & thermal · LoRaWAN · Zigbee · MAVLink · MCP agents · ONDC (testing) · WhatsApp Business · Excel/CSV · CloudPRNT · OTAs via channel pipeline

RUNS WITH

Data Protection Vault · Global Fiscal Compliance · Granular Access Control

Deployment & rollout

What a Signed Runtime & Whitelisting deployment actually looks like — bring this page to whoever signs off.

ROLLOUT

01 **Sandbox first**
Your catalogue, opening stock and flows run in a sandbox before anything touches production.

02 **Guided migration**
Bulk import of items, barcodes, suppliers and opening stock — Excel/CSV in one pass.

03 **Pilot site**
One counter or one site goes live first — measured against your old process, not promises.

04 **Staged rollout**
Remaining sites switch over on your schedule — staged, sandbox-first cutover.

COMMERCIAL MODEL

Pricing	Scale plan and above — priced per site, never per user. Staff accounts are unlimited.
Ownership	Your data, your keys, your export — leave with everything. No data lock-in.
Support	Real engineers, ticket-based. Feature unlocks are toggles, not projects.

Scale plan and above
Sign up today — retailda.com/signup · no card required to start

Talk to an engineer

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WHATSAPP: +91 - 94751 16711

GitHub · McAfee · Ubiquiti

RetailDA