

Super Architecture Data

Fourth Discussion Format

LOCKED DIRECTION FOR NEXZENTEK PLATFORM

Document type	Final product + tenant host architecture
Status	Locked direction for NexZenTek platform
Frontends	2 codebases
Products	3 (POS, Landscaping/Service, E-Commerce) — sometimes sold as Superset
URL model	{tenant}. {product}. nexzentek.com

1. Business Intent (Aligned to Your Plan)

You still have:

Need	Meaning
POS-only experience	Only retail/POS modules
Landscaping-only experience	Only service modules
E-Com experience	Customer storefront
Superset (e.g. EGF)	POS + Landscaping together
Admin ops for e-com	Product/preorder/dashboard/sales/orders on staff/POS side
2 frontends	Staff app + E-com app

Fourth discussion keeps that packaging, but identifies **company + product in the host**.

2. Fourth Discussion URL Model (Locked Style)

{tenant}. {product}. nexzentek.com

Examples: acme.pos.nexzentek.com
acme.landscaping.nexzentek.com
acme.ecom.nexzentek.com
acme.egf.nexzentek.com (optional superset alias)

Standard Product Hosts

Surface	URL pattern	Frontend
POS	{tenant}.pos.nexzentek.com	Staff FE
Landscaping	{tenant}.landscaping.nexzentek.com	Staff FE
E-Commerce	{tenant}.ecom.nexzentek.com	Ecom FE

Superset Packaging Options

Superset is a **commercial bundle**, not necessarily a fourth frontend.

Approach	Example	Meaning
A. Bundle via entitlements	acme.pos... + acme.landscaping...	Same company, two product hosts
B. Alias product key	acme.egf.nexzentek.com	One host showing POS + Landscaping modules
C. Primary staff host + modules	acme.pos... with landscaping unlocked by plan	Fewer hosts, bundle in plan

Recommended: Keep product hosts pos, landscaping, ecom. Treat EGF/superset as plan entitlements. Optional convenience alias: egf host unlocking both module sets.

DNS (Wildcard — Once Per Product)

Wildcard	Serves
*.pos.nexzentek.com	POS staff app
*.landscaping.nexzentek.com	Landscaping staff app
*.ecom.nexzentek.com	Ecom customer app
*.egf.nexzentek.com	Optional superset alias

No DNS per new company — wildcard covers all tenants.

3. Two Frontends, Three Products

Staff Frontend (one codebase)

- acme.pos.nexzentek.com --> POS modules only
- acme.landscaping.nexzentek.com --> Landscaping modules only
- + acme.egf.nexzentek.com (optional) --> POS + Landscaping

Ecom Frontend (second codebase)

- + acme.ecom.nexzentek.com --> customer storefront

Admin retail/e-com operations (products, preorders, dashboard, sales, online orders) stay on **POS staff host** (or EGF host if that is the staff entry).

4. How Each Surface Works

POS

```
acme.pos.nexzentek.com
--> product=pos, tenant=acme
--> login
--> JWT + Host
--> DB[acme]
--> POS modules only
```

Landscaping

```
acme.landscaping.nexzentek.com
--> product=landscaping, tenant=acme
--> login
--> DB[acme]
--> service modules only
```

Superset Company

```
Plan entitles POS + Landscaping (+ Ecom)
Staff may use:
- acme.pos... and acme.landscaping...
- or acme.egf... (both module packs)
Customers use: acme.ecom...
All read/write DB[acme]
```

E-Commerce (no login required to browse)

```
Customer opens acme.ecom.nexzentek.com
--> Host already has tenant=acme, product=ecom
--> No store picker needed
--> Load Acme products from DB[acme]
--> Checkout writes Acme orders
--> Staff sees those orders on acme.pos...
```

This **directly solves** the anonymous e-com confusion from the third discussion.

5. E-Com Anonymous Access Under Fourth Discussion

Because tenant is in the host, anonymous browse is natural.

Primary Method (Default) — Host-based tenant

{tenant}.ecom.nexzentek.com

Pros	Clear store identity; works before login; shareable; SEO-friendly; no path tenant required; matches platform standard
Cons	Needs wildcard DNS/TLS per product; FE must parse tenant from host
Rec	Default for all tenants

Add-on Method — Custom domain

www.acmefarm.com maps to acme + ecom

Pros	White-label branding
Cons	DNS/SSL verification per customer
Rec	Premium option

Not Needed as Primary

Method	Why not primary
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Path /acme on shared ecom.nexzentek.com	Conflicts with locked host model; keep only as legacy/migration
Store picker	Unnecessary when host already has tenant
Query ?company=	Weak/unsafe as primary

E-com Options Matrix (Fourth Discussion)

Option	Anonymous catalog	Ops	White label	Use
Tenant ecom subdomain	Excellent	Low (wildcard once)	Medium	PRIMARY
Custom domain	Excellent	Higher	Excellent	Add-on
Path on shared ecom host	Good	Low	Weak	Migration only
Store picker	Poor UX	Low	Weak	Avoid
Query/token	Risky	Low	Weak	Campaign links only

6. Data Isolation and Shared Company Data

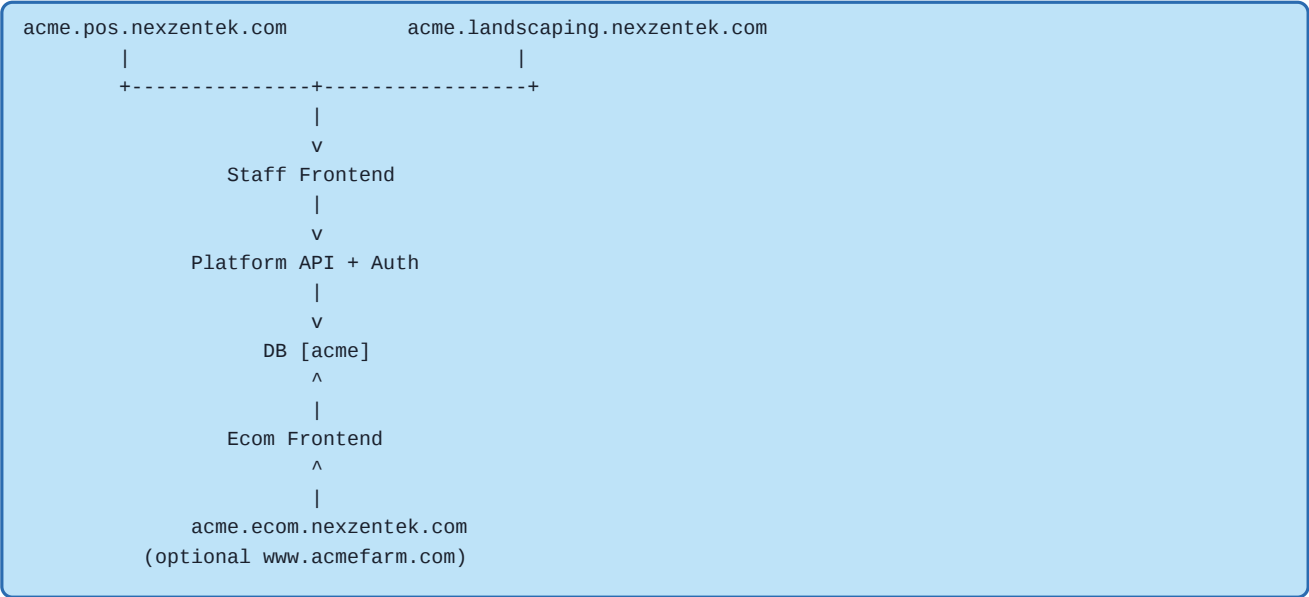
Company	Staff URLs	Customer URL	Database
Acme	acme.pos..., acme.landscaping...	acme.ecom...	DB[acme]
GreenFarm	greenfarm.pos..., ...	greenfarm.ecom...	DB[greenfarm]

Within Acme DB

Module	Data
POS	products, stock, POS sales
Landscaping	enquiries, quotes, jobs, service invoices
E-Com	online orders, carts (catalog usually shared with POS products)

POS product create --> available on Acme e-com. E-com order --> visible in Acme POS admin orders.

7. End-to-End Diagram



GreenFarm uses the same apps/hosts pattern with greenfarm.* --> DB[greenfarm].

8. Implementation Planning (Fourth Discussion)

Phase F1 — Product registry + wildcards • Products: pos, landscaping, ecom (+ optional egf) • Wildcards + TLS per product • Host parser: tenant + product
Phase F2 — Staff frontend host profiles • Same codebase • Host product controls visible modules • Plan entitlements must match host product (or egf bundle)
Phase F3 — Ecom frontend host tenant • Parse {tenant}.ecom.{root} • Anonymous catalog from that tenant DB • Send Host / tenant headers to API
Phase F4 — POS admin remains e-com control plane • Products, preorders, dashboard, sales, online orders on POS (or EGF) host • Deep links from POS admin to tenant.ecom... storefront

Phase F5 — Superset packaging
• Plan code enables POS + Landscaping (+ Ecom) • Optional egf host alias for combined staff UX • No third frontend required
Phase F6 — White label
• Custom domain --> tenant + product mapping • Especially for e-com
Phase F7 — Dual-run migration
• Support legacy hosts while cutting over to {tenant}.{product}

9. Mapping Your Plan → Fourth Discussion

Your requirement	Fourth discussion answer
Only POS modules on POS entry	{tenant}.pos... module profile
Only Landscaping modules	{tenant}.landscaping...
Ecom web for customers	{tenant}.ecom...
Admin product/order ops	On {tenant}.pos... (staff FE)
Superset all services	Entitlements + optional {tenant}.egf...
2 frontends, 3 products	Staff FE + Ecom FE; products pos/landscaping/ecom
Anonymous company products	Host already includes tenant — no picker

10. Third vs Fourth (For This Packaging)

Topic	Third discussion	Fourth discussion
Product separation	pos.nexzentek.com	tenant.pos.nexzentek.com
Company identity in URL	Usually no (except ecom path/domain)	Yes in every product host
Staff tenant	After login	Host + login
Ecom anonymous tenant	Path / custom domain / picker	Host tenant (primary)
Superset	egf.nexzentek.com	{tenant}.egf... or dual hosts by entitlement
DNS	One host per product	One wildcard per product
Best ecom anonymous UX	Needs path or domain	Native via subdomain

11. Recommendation

- For your described packaging (2 frontends, 3 products, optional EGF superset):
1. Use **fourth discussion** as the platform standard: {tenant}. {product}. nexzentek.com
 2. Keep **two frontends**: Staff + Ecom
 3. Use **plan entitlements** for POS / Landscaping / Ecom / Superset
 4. Put retail + e-com **admin** on POS (or EGF) staff host
 5. Solve e-com anonymous catalog with **{tenant}.ecom...** (+ optional custom domain)
 6. Use third-discussion shared hosts only as interim/legacy if needed during migration

12. One-Line Summary

Fourth discussion gives each company a clear product URL (acme.pos, acme.landscaping, acme.ecom), keeps two frontends and three sellable products (plus EGF-style superset), and lets anonymous customers see the correct company catalog because the tenant is already in the e-com host.