VYPNEX

B2B CommerceOS
Complete User Guide & Architecture Manual

The authoritative operating system for Indian Manufacturers, Wholesalers, Distributors, Retailers & Financial Partners. Complete workflow documentation, voice billing manuals, and multi-portal operations.

- VOICE-FIRST BILLING
- 4-TIER DOCUMENT MASKING
- MULTI-WAREHOUSE STOCK
- DOUBLE-ENTRY LEDGERS
- EMBEDDED SUPPLY CHAIN FINANCE
- 5-MINUTE LIVE DEPLOY

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RELEASE VERSION
v1.0.0-PROD (Enterprise)

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Statutory GSTN & Trade Secret Compliant

1 Executive Architecture & 5-Portal Ecosystem

VYPNEX is an interconnected B2B operating system that links Manufacturers, Distributors, Retailers, Credit Underwriters, and Super Admins into a unified real-time transaction network.

Unified Ecosystem Role Matrix

Portal Name	Target User	Core Capabilities	Default Route
Business Portal	Manufacturers / Wholesalers	Voice Billing, Inventory, GST Invoices, Price Lists, Ledgers	`/business`
Partner Portal	Distributors / Retailers	Live B2B Ordering, Catalogues, Custom Margins, Credit Tracking	`/partner`
Finance Portal	Banks / Underwriters	Credit Limit Allocation, Invoice Discounting, Repayment Audit	`/finance`
Affiliate Portal	Growth Partners	Referral Tracking, Subscriptions Commission, Payout Desk	`/affiliate`
Admin Console	System Super Admins	KYC Verifications, Global Settings, Security Audit Logs	`/admin`

End-to-End B2B Transaction Flow

Every commercial transaction follows an automated, zero-discrepancy lifecycle:



1. Catalogue & Pricing

Products mapped with HSN, GST rate & party discounts



2. Voice / Web Order

Acoustic parsing or 1-click B2B sales order placement



3. Tax Invoice

Automated CGST/SGST/IGST calculation & round-off



4. Auto Stock Sync

Real-time warehouse deduction & stock ledger update



5. 4 Carbon Copies

Masked distribution to Transporter, Buyer, CA & Warehouse

> 💡 **Zero-Discrepancy Guarantee**
>
> VYPNEX automatically resolves the statutory GST rate, HSN code, and customer-specific relationship pricing so users never have to memorize or manually type complex codes during fast-paced counter or warehouse operations.

2 Voice Billing Command Center (Speak. See. Check. Confirm. Done.)

The Voice Billing Command Center allows sellers to generate 100% statutory compliant GST invoices in seconds using natural voice speech in English, Hindi, or Hinglish.

The 5 Visible Action Steps

1. Speak
Acoustic voice waveform & natural language capture

2. Live Bill
Real-time typewriter bill sheet preview

3. Edit
Instant inline quantity, rate & tax adjustments

4. Check
6-point statutory tax & stock audit inspection

5. Confirm
Invoice lock & 4-entity background live sync

Voice Command Examples across 6 Trade Sectors

Industry Sector	Spoken Voice Command	Automated System Resolution
Apparel & Textiles	*"Gupta Traders ko 100 piece Blue Cotton T-Shirt rate 450 5% discount"*	Buyer: Gupta Traders | SKU: SH-102 | HSN: 6109 | GST: 5% | Net: ₹42,750
Electricals & Hardware	*"50 pcs Apex MCB 16A aur 10 coil copper wire 2.5mm rate 1850"*	SKU: ELEC-MCB-16A (18% GST) + ELEC-WIRE-2.5 (18% GST) auto-calculated
FMCG & Grocery	*"25 Jar Fortune Refined Oil aur 40 Bag Aashirvaad Atta 5% discount"*	Packaging units (Jar/Bag), food HSNs & applicable GST rates auto-filled
Pharma & Healthcare	*"50 Box Dolo 650mg aur 20 Strip Augmentin 625 rate 185 10% disc"*	Medical batch tracking, strip units, Schedule H compliance checked
Building & Steel	*"100 Bag UltraTech Cement aur 2 Ton Tata TMT 12mm discount 2%"*	Weight conversion (Tons to KG), freight taxes & bulk rates applied
Electronics & IT	*"40 piece GaN 65W Fast Charger aur 20 piece ANC Earbuds"*	IT HSN 8504/8518, 18% GST rate & serial number tracking enabled

Post-Submit Live 4-Entity Synchronization

Upon clicking ✓ **Confirm & Submit**, the system executes 4 atomic operations simultaneously:

1. Inventory
Stock immediately deducted from primary

2. Ledger
Double-entry debit voucher recorded in party ledger

3. Order
B2B sales order fulfilled & archived

4. Documents
4 carbon copies formatted for one-click sharing

warehouse

3 4-Carbon Copy Statutory Document Generator

VYPNEX features an enterprise-grade document masking engine that generates 4 specialized copies of every invoice to protect trade secrets and sensitive trade margins while maintaining full GSTN compliance.

Copy Type	Intended Recipient	Masked Information (Protected)	Visible Information
ORIGINAL	Buyer / Recipient	Supplier cost prices, internal margins	Complete itemized rates, taxes, buyer total & payment terms
DUPLICATE	Transporter / Logistics	`Commercial values masked (***)`	HSN, Item descriptions, quantities, weights, E-Way Bill & addresses
TRIPLICATE	Supplier / Seller Copy	None (Full visibility)	Unit cost, profit margins, statutory GST splits & ledger vouchers
QUADRUPLICATE	CA / Statutory Auditor	Internal warehouse notes	Statutory GSTN breakdown, reverse charge, HSN summary & round-off

Multi-Warehouse Inventory & Stock Ledger

VYPNEX tracks inventory across unlimited multi-location warehouses with real-time stock transfer protocols:

Warehouse Management Capabilities:

- Unlimited warehouse depots with primary designation.
- Automated stock ledger logging for IN, OUT, TRANSFER, and ADJUSTMENTS.
- Re-order level triggers and low stock visual warnings.
- Location-based stock transfer between regional hubs.

Party Ledger & Aging Analysis:

- Real-time running balances with Debit/Credit vouchers.
- Automated aging buckets: 0–30 days, 31–60 days, 61–90 days, 90+ days.
- 1-Click WhatsApp and Email automated payment reminders.
- Instant CSV and Tally-compatible statement export.

4 How to Take VYPNEX Live in < 5 Minutes

VYPNEX is fully pre-compiled and packaged into a zero-dependency production archive (`vypnex_live_ready.zip`). Follow this 3-step rapid deployment checklist:

Step 1: Upload Zip

1. Log in to your **cPanel / Plesk / Cloud Server**.
2. Open **File Manager** → `public_html`.
3. Upload `vypnex_live_ready.zip` and click **Extract**.

Step 2: Configure DB

1. Create a MySQL database (e.g. `vypnex_db`) and user.
2. Open `.env` file in root and set database credentials:

```
DB_DATABASE=vypnex_db
DB_USERNAME=user
DB_PASSWORD=secret
```

Step 3: Run Installer

1. Visit `https://yourdomain.com/install-db` in your web browser.
2. Click **Install / Migrate Database**.
3. Done! System is live instantly.

Production Demo Logins

Portal	Demo User Email	Password	Direct Quick-Access URL
Super Admin	`admin@vypnex.com`	`Admin@12345`	`/admin/quick-login`
Business Owner	`rajesh@apexelectronics.com`	`Business@12345`	`/business/quick-login`
Channel Partner	`vikas@gujaratswitchgear.com`	`Partner@12345`	`/partner/quick-login`
Credit Underwriter	`finance@vypnex.com`	`Finance@12345`	`/finance/quick-login`
Affiliate Marketer	`ananya@growthaffiliates.com`	`Affiliate@12345`	`/affiliate/quick-login`

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