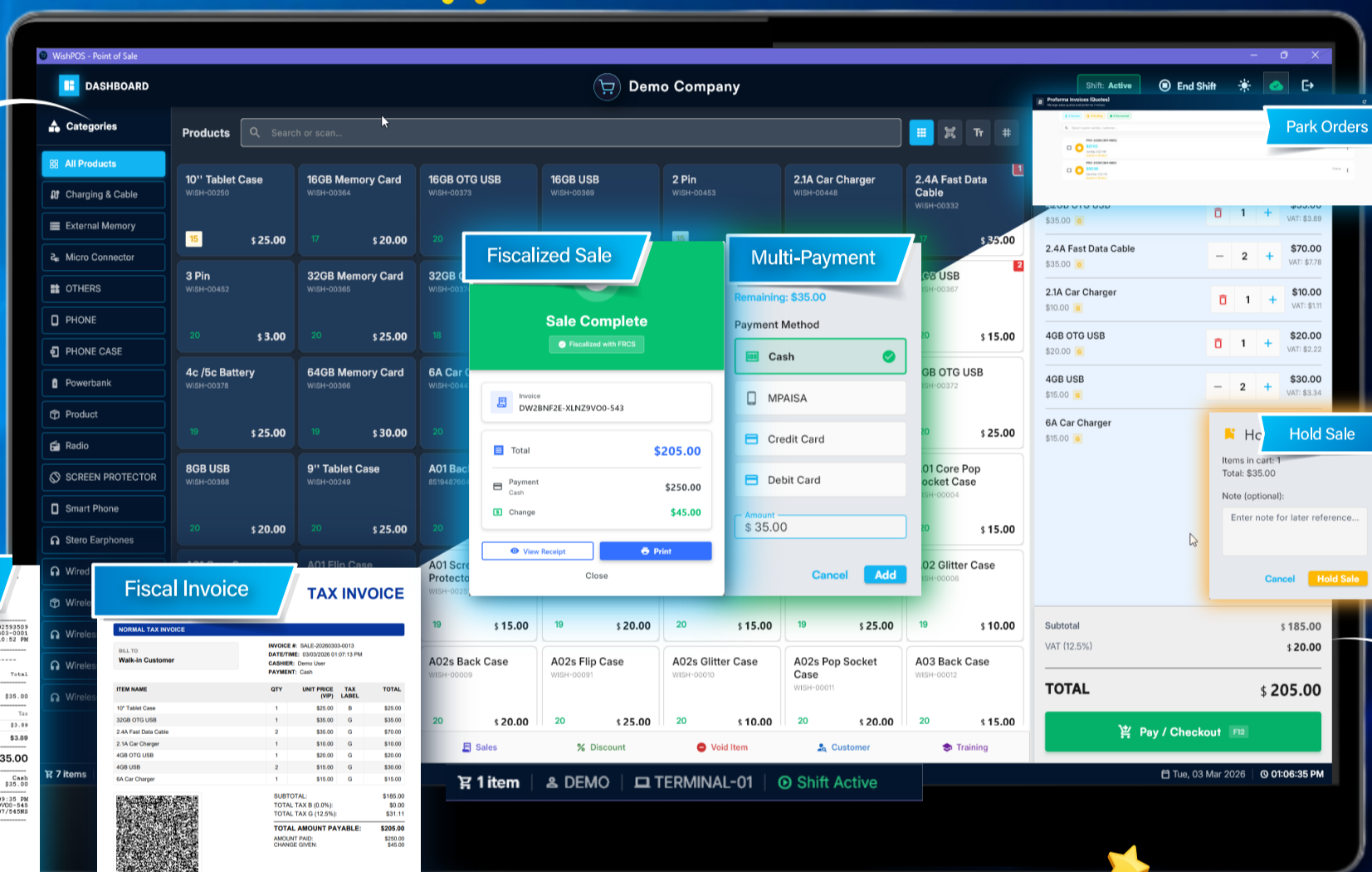




INTRODUCING

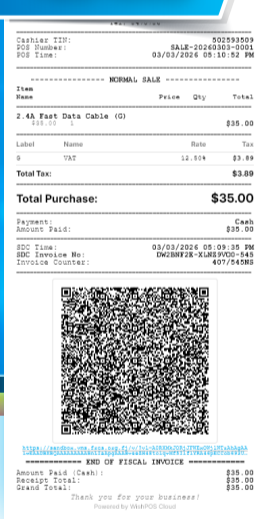
WishPOS

Powering Your Business

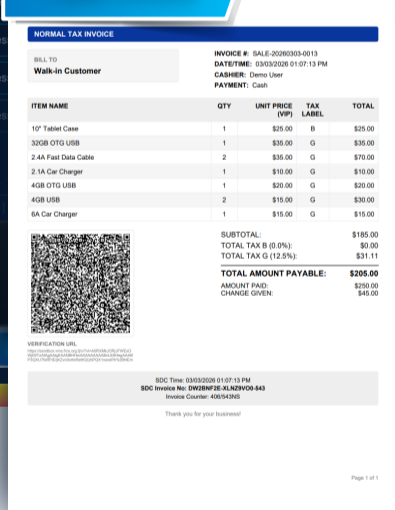


Dark Mode

Fiscal Receipt



Fiscal Invoice



TAX INVOICE

Fiscalized Sale

Sale Complete

Multi-Payment

Park Orders

Hold Sale

Light Mode



WishPOS is a Windows-Native Point Of Sale (POS) And Retail Management System Purpose-Built For Businesses Operating Under Fiji's FRCS Vat Monitoring System (VMS) Fiscalization Regime. It Provides A Complete End-To-End Retail Transaction Platform — From Product Sales At The Counter To FRCS-Compliant Fiscal Receipt Generation — Fully Integrated With The FRCS Virtual Sales Data Controller (V-SDC) Via A Certified Local Proxy. WishPOS Is Designed For Small-To-Medium Retail Businesses In Fiji Requiring 1-5 Checkout Terminals At A Single Location. Every Sale Processed By

★ ★ ★ WishPOS Is Automatically Fiscalized In Real Time Through The FRCS VMS API. ★ ★ ★



PRODUCT SPECIFICATION

1. PRODUCT IDENTITY

- Product Name : WishPOS – Point of Sale System
- Version : 3.1.2
- Publisher : Wish Technology
- Platform : Microsoft Windows (Desktop) – Windows 10/11 (64-bit)
- Technology : Flutter 3.x (Dart) with native Windows compilation
- Package Identity : WishPOS.PointOfSale
- Database : SQLite (embedded, local)
- Fiscalization : FRCS VMS compliant via dedicated FRCS Proxy Manager Application.

2. PRODUCT DESCRIPTION

WishPOS is a comprehensive, [Windows-based](#) Point of Sale application engineered for retail and hospitality businesses operating in Fiji. Developed using Google's Flutter framework for high-performance native desktop execution, WishPOS delivers a modern, responsive user interface with full compliance to the [Fiji Revenue and Customs Service \(FRCS\) VAT Monitoring System \(VMS\)](#).

WishPOS is designed to be [transferable](#) – it is sold as a commercial off-the-shelf software product to multiple businesses and can be deployed at any Fiji-based retail establishment. The system integrates all core POS functions – sales processing, inventory management, customer management, staff management, financial reporting, and tax compliance – into a single, cohesive application

Developed and Trained
on Windows 11



Comprehensive Testing
on Windows 10



FRCS Version 2.2
PROXY
MANAGER

Windows desktop application that serves as a secure V-SDC proxy between Point-of-Sale (POS) applications and the FRCS TaxCore API. It handles mutual TLS authentication, invoice fiscalization, certificate management, and tamper-evident audit logging.



Flutter



Dart



SQLite

Used For Developing
WishPOS



3 FRCS VMS Compliance Capabilities

3.1 SDC Integration

WishPOS communicates with FRCS-approved Sales Data Controllers (SDC) through a dedicated FRCS Proxy application that handles mutual TLS (mTLS) authentication and certificate management.

V-SDC Support : Virtual SDC – cloud-based, requires internet at point of sale

Certificate Management : FRCS .pfx developer certificate handled by proxy

mTLS Authentication : Mutual TLS for all API communication with FRCS

Environment Switching : Seamless switch between Sandbox (testing) and Production

3.2 Fiscal Invoice Management

INVOICE TYPE	SUPPORTED	SUPPORTED
Normal Sale	<input checked="" type="checkbox"/>	Standard customer purchase
Copy Invoice	<input checked="" type="checkbox"/>	Duplicate of previously issued invoice
Training Invoice	<input checked="" type="checkbox"/>	Training mode – no impact on sales data
Proforma Invoice	<input checked="" type="checkbox"/>	Pre-sale quote/estimate
Advance Invoice	<input checked="" type="checkbox"/>	Advance payment for future delivery
Refund Invoice	<input checked="" type="checkbox"/>	Returns with mandatory reference to original FRN

3.3 Fiscal Receipt Content

- Every fiscal receipt generated contains all mandatory elements as specified in the
- FRCS Technical Instructions for POS & Cash Register Developers (v2.2):
- Taxpayer Name ([Company Name](#))
- Taxpayer Identification Number (TIN) – 8-character format
- Receipt sequential counter (atomic, never skipped)
- Date and time of issuance ([from SDC](#))
- Invoice type label ([Normal](#), [Refund](#), [Training](#), [Copy](#), [Proforma](#), [Advance](#))
- Item details: name, quantity, unit price, total, tax label
- Tax summary: breakdown by tax label ([G=12.5%](#), [E=exempt](#), [Z=zero-rated](#))
- Subtotal (net of VAT), VAT amount, and Total (gross)
- Payment method and amount tendered

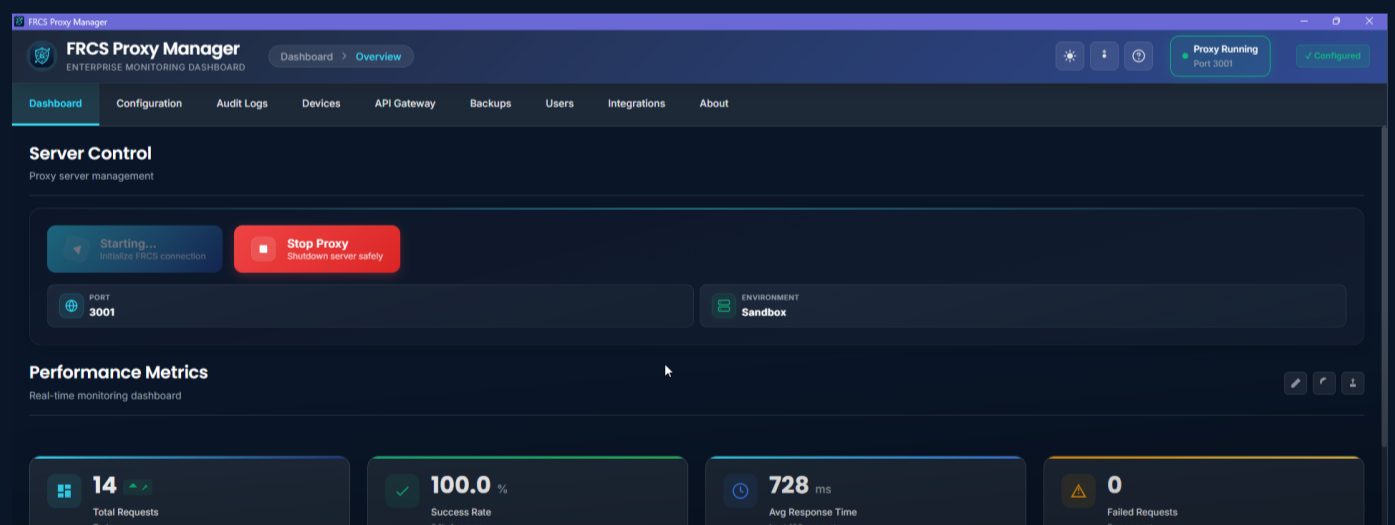
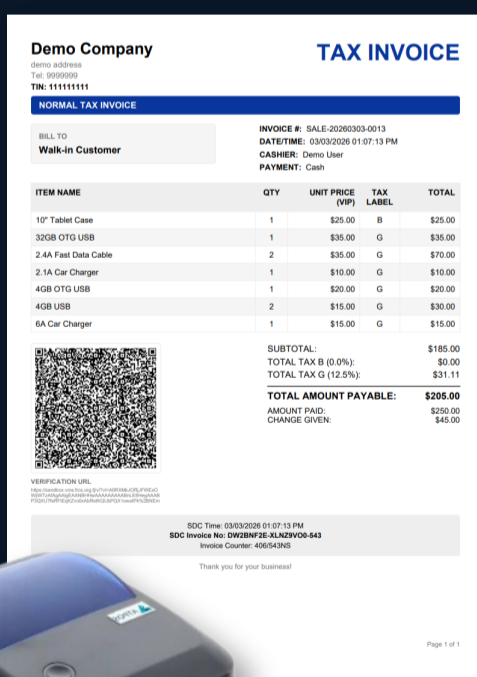


FRCS VMS Compliance Capabilities

3.3 Fiscal Receipt Content

WishPOS enforces the following FRCS-mandated safety constraints:

1. No fiscal receipt is issued without successful SDC communication – invoices are queued and retried until the SDC confirms fiscalization.
2. Invoice counters are atomic and sequential – numbers are never skipped, duplicated, or manually editable.
3. Issued invoices cannot be altered or deleted – corrections require a new refund invoice referencing the original
4. No hidden modes exist to bypass tax compliance
5. VAT calculations are automatic – 12.5% VAT is extracted from VAT-inclusive prices using the formula: $\text{Net} = \text{Price} \div 1.125$



FRCS Proxy Manager

Version 2.2.0

Secure communication bridge between WishPOS and the Fiji Revenue & Customs Service V-SDC fiscalization system.



CORE FUNCTIONAL MODULES

4.1 POINT OF SALE TERMINAL

- The primary sales interface provides:
- Touch-friendly product grid with category filtering
- Product search by name, SKU, or barcode
- Real-time cart with live VAT calculation
- Quantity editing, item removal, price override (role-restricted)
- Discount application (percentage or fixed amount, role-restricted)
- Multiple payment methods with split payment support
- Hold/recall sale functionality for queuing transactions
- Customer assignment for B2B invoicing
- Invoice type selection (Normal, Proforma, Training, Advance)
- One-click payment completion with automatic fiscalization and receipt printing

4.2 INVENTORY & PRODUCT MANAGEMENT

- Product database (PLU) with name, SKU/barcode, price, cost, tax label, category, stock
- Category management for product organisation
- Stock tracking with low-stock alerts
- Stock count reconciliation
- Stock adjustments (damage, internal use)
- Bad stock recording
- Supplier management
- Purchase order recording and stock-in
- Bulk product import/export (CSV)
- Barcode label printing

4.3 CUSTOMER MANAGEMENT

- Customer database (name, TIN, phone, email, address)
- Quick lookup by TIN, name, or phone at POS
- Customer association with invoices for B2B compliance



CORE FUNCTIONAL MODULES

4.4 STAFF & USER MANAGEMENT

- 10-level Role-Based Access Control (RBAC):



Super Admin, Administrator, Accountant, Senior Manager, Manager, Supervisor, Shift Lead, Senior Cashier, Cashier, No Access

- Configurable discount limits per access level
- Manager override workflow for restricted operations
- PIN-based quick login for cashier switching
- Login lockout on failed attempts
- Password hashing (bcrypt)
- Per-role permissions: void sales, process refunds, apply discounts, edit inventory, view reports

4.5 PAYMENT METHOD

Method	Description
Cash	With automatic change calculation
Card	EFTPOS / Credit / Debit
Mobile Money	M-PAiSA, MyCash, and similar services
Bank Transfer	Direct transfer with reference
Cheque	Cheque payment with reference tracking
Custom	Administrator-defined additional methods
Split Payment	Combine any two or more methods in a single transaction

4.6 REPORTING SUIT

REPORT	CONTENT
Sales Reports	Daily/weekly/monthly/custom sales summaries with filtering
Tax Reports	VAT collected by period and tax label – for VAT return preparation
Transaction Reports	Detailed transaction log with drill-down
Profit & Loss	Revenue vs. cost analysis by product/category/period
Purchase Reports	Supplier purchase summaries
Shift Reports (X/Z)	Per-shift and daily consolidated reports
End-of-Day Reports	Complete daily closure with all metrics

All reports support: Print, Export to CSV, and Export to PDF.



4.7 SHIFT MANAGEMENT

- Automatic or manual shift open/close
- Running shift totals (X-report) at any time
- Shift close generates Z-report with full breakdown
- Cash drawer reconciliation
- CSV export of shift data

4.8 RECEIPT & PRINT MANAGEMENT

- Thermal receipt printing (ESC/POS protocol)
- Stock tracking with low-stock alerts
- USB, Network (TCP/IP), and Windows driver printer support
- 58mm and 80mm paper width
- Customizable receipt header and footer
- Auto-print after sale
- Reprint from sales history
- Receipt template configuration
- Barcode label printing



TECHNICAL ARCHITECTURE

5.1 APPLICATION ARCHITECTURE

FLUTTER APPLICATION



INVOICE TYPES

- Normal (0) • Proforma (1)
- Copy (2) • Training (3)
- Advance (4)

Refund = transactionType: 1
TIN: DW2BNF2E · VAT: 12.5% (Label G)

SECURITY

- BCrypt cost 10 password
 - Encrypted Hive secure storag
 - RBAC enforced at controlle
 - mTLS certificate pinnin
- localhost-only proxy · token cache 8h

FRCS COMPLIANCE

- Blocking fiscalization
 - Atomic TX: Cart→FRCS→DB
 - Idempotency guard
 - FRN + QR code on receipts
- NO SALE without FRCS approval



TECHNICAL ARCHITECTURE

5.2 KEY TECHNICAL CHARACTERISTICS

Aspect	Implementation
Language	Dart (compiled to native Windows x64)
Framework	Flutter 3.x with Windows desktop support
State Management	GetX (reactive observables, dependency injection)
Database	SQLite via sqflite_common_ffi (embedded, no external server)
Schema Versioning	41 sequential migrations with auto-migration on startup
Security	bcrypt password hashing, flutter_secure_storage, AES encryptions
Printing	ESC/POS protocol (USB/Network), Windows driver, PDF generation
QR Generation	qr_flutter library
Barcode Support	barcode_widget, flutter_barcode_scanner, flutter_barcode_listener
HTTP Client	Dio with timeout and retry logic
Error Handling	Result monad pattern (Success/Failure)
Charts	fl_chart for analytics dashboards

KEY TECHNICAL STACK

LANGUAGE NATIVE Dart Compiled to native Windows x64	FRAMEWORK v3.x Flutter 3.x Windows Desktop Material Design 3	STATE MGMT REACTIVE GetX 4.7.2 Reactive Observables Dependency Injection	SECURITY ENCRYPTED BCrypt + AES flutter_secure_storage Password hashing cost 10
DATABASE LOCAL SQLite sqflite_common_ffi Embedded · No server	SCHEMA v1 → v41 41 Migrations Sequential versioning Auto-migrate on startup	PRINTING THERMAL ESC/POS USB · Network driver PDF generation	HTTP CLIENT RESILIENT Dio Timeout + retry logic Interceptors · logging
QR GENERATION FISCAL qr_flutter FRCS verification URL Printed on every fiscal receipt	BARCODE 3 LIBS Multi-Mode Scanner barcode_widget · flutter_barcode_scanner flutter_barcode_listener (USB/keyboard)	ERRORS Result<T> Success/Failure monad pattern ErrorMapper · AppLogger	CHARTS fl_chart Analytics Dashboards KPI Tiles · Reports

11 Specialized
Controllers
GetX · fenix: true

WishPOS

41 DB Migrations
v1 → v58 active
SQLite · WAL mode



TECHNICAL ARCHITECTURE

5.3 DATA FLOW - SALE TRANSACTION



ATOMICITY GUARANTEE

If FRCS fails → full rollback
No partial saves. No orphaned records.

FRCS COMPLIANCE

Every sale fiscalized before commit
FRN required on every receipt

ERROR RESILIENCE

Circuit breaker · Retry queue
Idempotency guard · In-flight dedup



TECHNICAL ARCHITECTURE

5.4 OFFLINE RESILIENCE

When the SDC is unreachable :

- Sale is placed in a Fiscalization Retry Queue
- Automatic retry with exponential backoff (3 attempts, 30-second timeout per attempt)
- No receipt is issued until fiscalization succeeds (FRCS compliance)
- Operator is notified of pending invoices
- Queue processes automatically when connectivity resumes

6 HARDWARE COMPATIBILITY

6.1 SUPPORTED PERIPHERALS

Peripheral	Types	Connection
Receipt Printer	ESC/POS Thermal (58mm or 80mm)	USB, TCP/IP Network, Windows Driver
Barcode Scanner	1D/2D (keyboard-wedge)	USB
Camera Scanner	Built-in or USB webcam	USB / Built-in
Cash Drawer	Printer-triggered (RJ11)	Via receipt printer
Smart Card Reader	USB	For E-SDC certificate
Touch Screen	Windows-compatible	USB / Built-in

6.2 OPERATING SYSTEM

- Minimum: Windows 10 (64-bit), version 1809 or later
- Recommended: Windows 11 (64-bit)
- Not Supported: macOS, Linux, Android, iOS (Windows-only product)



7 DEPLOYMENT & DISTRIBUTION

Aspect

Details

Distribution Model	Commercial off-the-shelf (COTS) – transferable license
Installer Format	MSIX package (WishPOS.PointOfSale)
Target Market	Fiji-based retail and hospitality businesses
Licensing	Per-terminal license with subscription support
Updates	Over-the-air updates via auto-update mechanism
Support	Email, phone, and on-site technical support

8 REGULATORY COMPLIANCE

Regulation

Status

FRCS VMS (TaxCore v3)	Fully compliant – V-SDC and E-SDC support
Fiji VAT (12.5%)	VAT-inclusive pricing with automatic extraction
Invoice Sequencing	Atomic, sequential, tamper-proof
Audit Trail	Complete operation logging
Data Integrity	SQLite with WAL mode, atomic transactions
Receipt Completeness	All FRCS-mandated fields present
QR Verification	Every receipt includes scannable FRCS QR code

9 CONTACT INFORMATION

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