



# Built With PGBC: Unlocking Secure, Real-Time Insights for a Shop EPOS

Customer case study of The Curiosity Cabins who are using OmniIndex PGBC for their shop system.

# OmniIndex

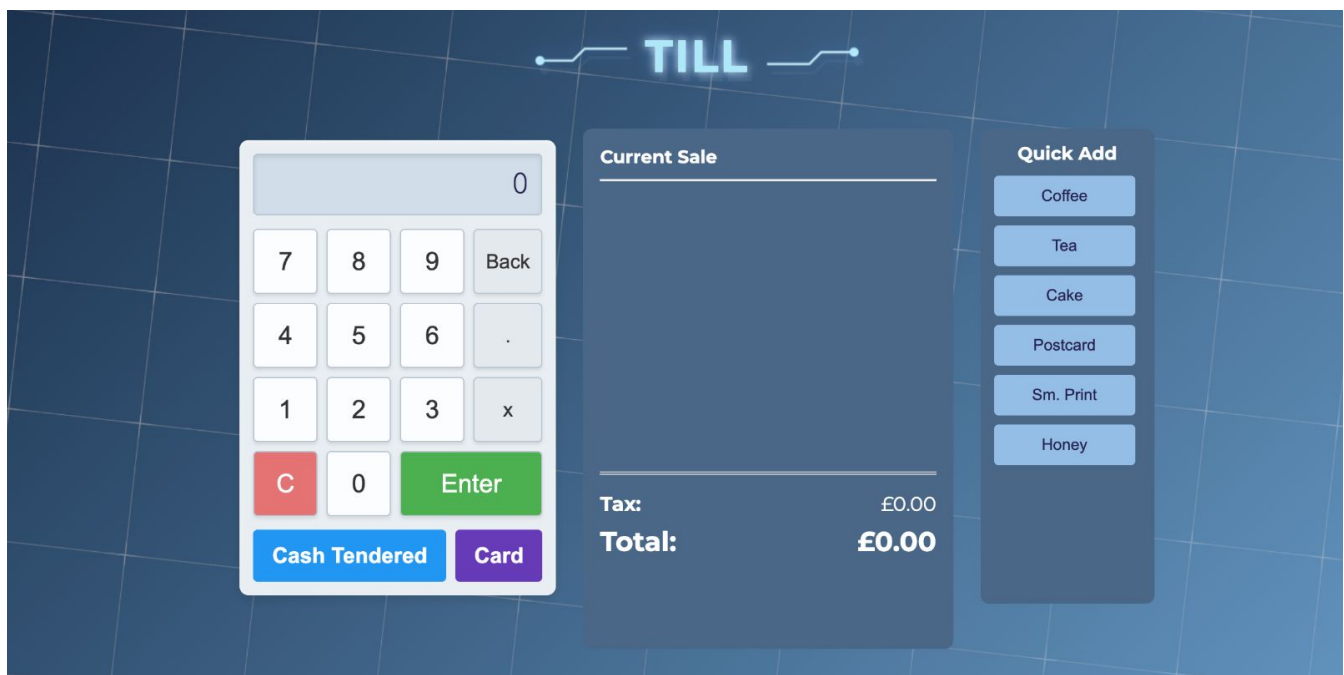
In the competitive retail landscape, the ability to make rapid, data-driven decisions is crucial for success.

For many small businesses, however, accessing these vital insights from their sales data can be a complex and insecure undertaking.

This case study showcases how a local wool and craft shop on the Scottish coast leveraged OmniIndex's PGBC data platform and Boudica AI to overcome this challenge, demonstrating how secure, real-time data intelligence can be both accessible and transformative for small enterprises.

**"Instead of digging through reports, I just ask our spreadsheet a question and get the answer instantly. It's a complete game-changer for managing our daily stock and suppliers."**

*Sharon Skinner, CEO Curiosity Cabins*



# The Problem: Secure Insights

The shop was operating with a conventional Small Store EPOS system that, while capable of managing basic sales and stock, failed to provide the instant, actionable insights needed for daily operations while keeping the data safe. The primary issues were:

**Lack of Real-Time Data:** A significant pain point was the inability to quickly determine the daily sales performance of a specific supplier's products and the amount owed to them.

**Inefficient Operations:** This lack of visibility hindered the effective management of suppliers and stock.

**Data Security Risks:** The shop needed to ensure that their suppliers' PII and sensitive financial data remained secure even while the above insights were being generated, a task their current system was unable to do.

# The Solution: Secure Insights

After discussions with the shop to understand their specific needs, OmniIndex developed the Boudica AI-EPOS, a point-of-sale dashboard powered by the PGBC platform and AI.

**Uncompromising Security:** The application allows the shop to save sales information directly into their own secure PGBC database. This database features a decentralized, blockchain-based architecture and built-in zero-trust security, rendering the stored information tamperproof and inoculated from attack. This architecture is designed to keep regulated financial and personal information secure, with the capability to automatically redact PII.

**Intuitive AI-Powered Analytics:** Using a simple Microsoft Excel add-in, the shop's team can now use natural language to query their encrypted sales and stock data through a Boudica chat-bot interface within a familiar tool. They can also gain quick real-time snapshot insights from their day's sales on the EPOS dashboard.





## How It Works: PGBC Database + Boudica AI + EPOS Interface

## Simple 5 Step Implementation

**The implementation took OmniIndex 36 hours, transforming the shop's data analysis capabilities.**

### 1: Database Setup

A new PGBC database was configured using the PGBC Admin Dashboard.

### 2: Schema Definition

To ensure optimal structure, Gemini AI was initially used to define the necessary tables for an EPOS, which OmniIndex's own Boudica AI then converted into the correct schematics.

### 3: Data Integration

As a fork of Postgres, the PGBC database allows for a smooth transition from traditional systems and can easily ingest data from a barcode reader app on a phone or a standard barcode scanner.

### 4: User Interface

A user-friendly dashboard was created to manage the till, float, suppliers, and stock, all linked to the secure PGBC database.

### 5: Seamless Excel Integration

By installing the PGBC extension for Microsoft 365, the shop connected their sales data to their spreadsheets, enabling them to converse with their data via Boudica.



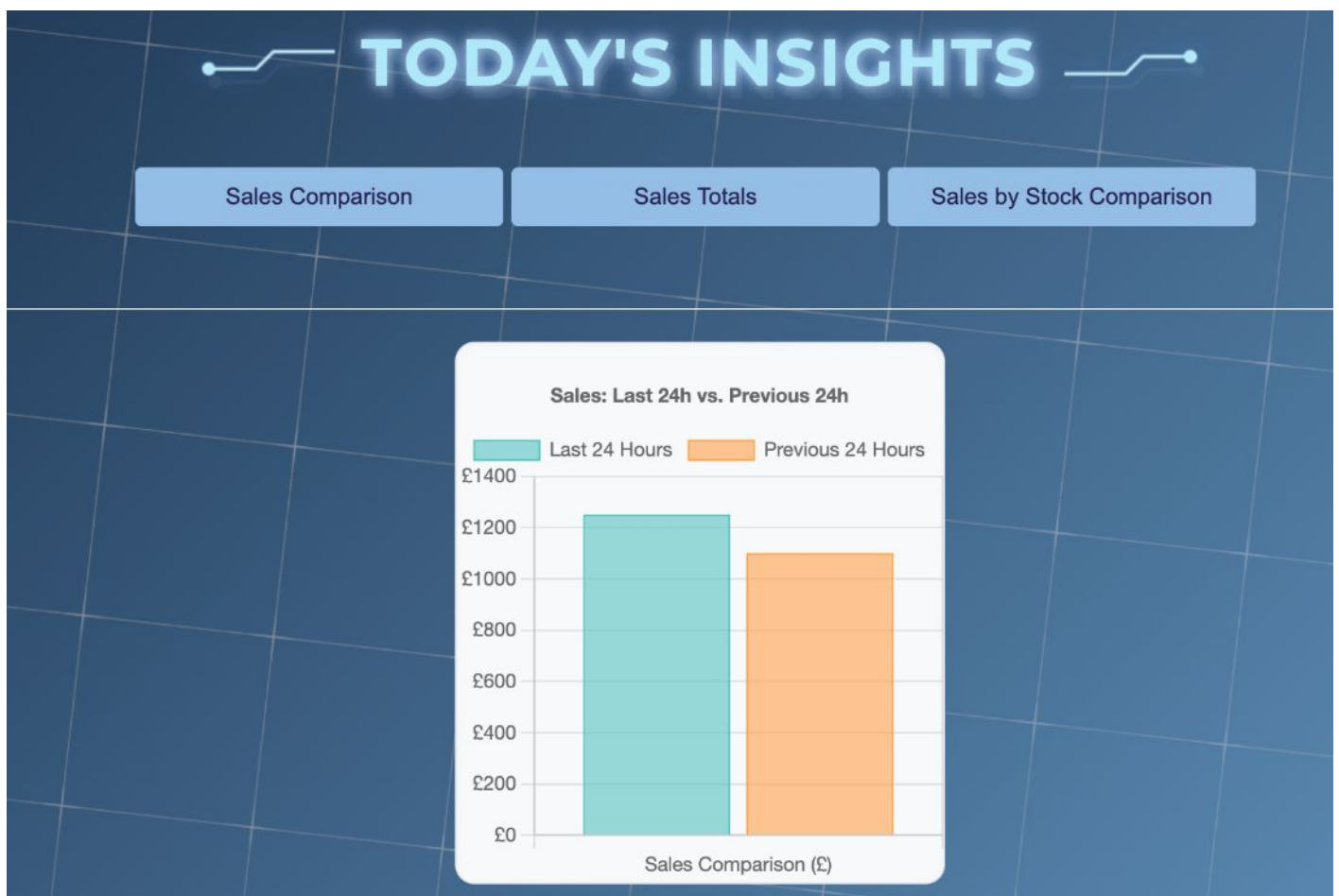
# OmniIndex

This innovative approach allows the user to ask straightforward questions and receive immediate insights. For instance:

- "How much stock do I hold?"
- "Which supplier had the most sales today?"
- "How much wool have I sold this week?"

In response, Boudica AI generates graphs and provides clear, natural language answers directly within Excel, eliminating the need for complex query reports or static reporting tools.

The EPOS dashboard also provides quick insights from the day's sales and stock, again showing these insights in clear graphs after automatically generating them in real-time from the fully encrypted data.





Curiosity Cabins are now using this OmniIndex EPOS solution in their shop, keeping their data safe and gaining valuable insights with AI.

This tailor made solution was done specifically for Curiosity Cabins and is not being sold as a specific EPOS product. However the PGBC database with the built-in AI for analytics of fully encrypted data is available to be used however our customers desire with them able to develop their own similar solutions.

Please get in touch to learn more.



[www.omniindex.io](http://www.omniindex.io)  
[info@omniindex.io](mailto:info@omniindex.io)  
+1 (650) 297-4682