Streamlining a complex development environment using Dyalog

Dyalog '23 – 10/16/2023 Mark I.Wolfson



Who is BIG?

Who is BIG and why is it a perfect use-case for APL

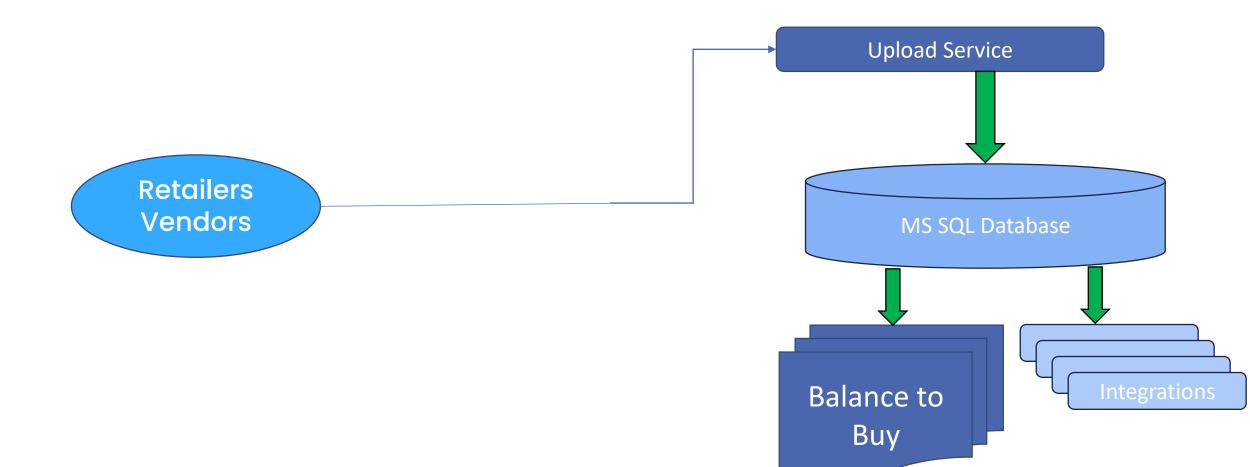
- Service consultancy in the jewelry industry
 - Customers:
 - Retail Jewelers
 - Jewelry Manufacturers (vendors)
 - Jewelry industry service companies
 - Services:
 - Inventory analysis & merchandising consulting
 - Jewelry sales/inventory data aggregation
 - We provide these services by collecting accurate, timely data from 1600 retail jewelry stores using 40 different software systems.



Big Business – Disrupting the Jewelry Industry

- Prior to BIG 2005
 - Independent Jewelers family-owned businesses
 - No POS/Inventory Management
 - Wrong inventory mix
 - Too much non-performing inventory
- Balance to Buy 2007
 - Improve performance by using data
 - Analyze prior consumer behavior
 - Strategies to reduce aged inventory
 - Budget/Plan/Buy/Manage





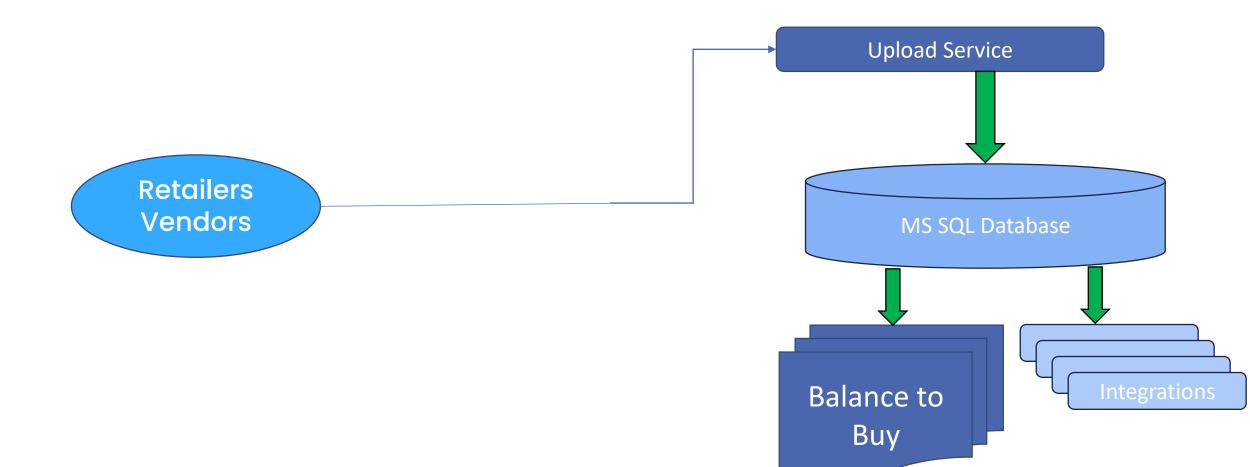


Retailer Data – A HOT MESS

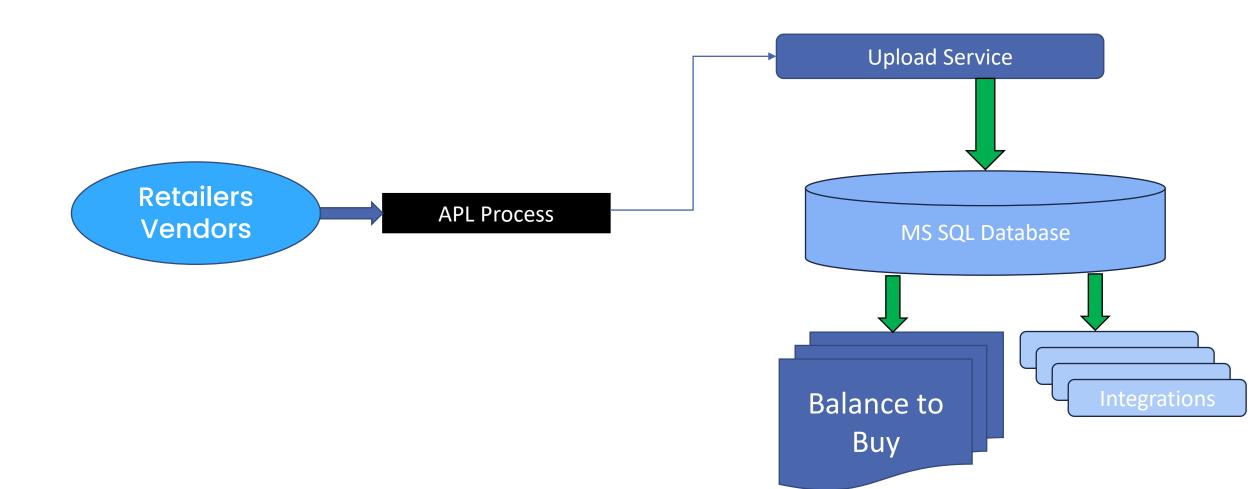
Integration with dozens of systems

- Varying number of files even for the same system
- Different formats
 - Flavors of CSV
 - Text files
 - Excel
 - XML
 - JSON
- Different content
 - Variations in content between retailers using the same system
 - Variations within a retailer depending on who's entering the data
 - Changes over time

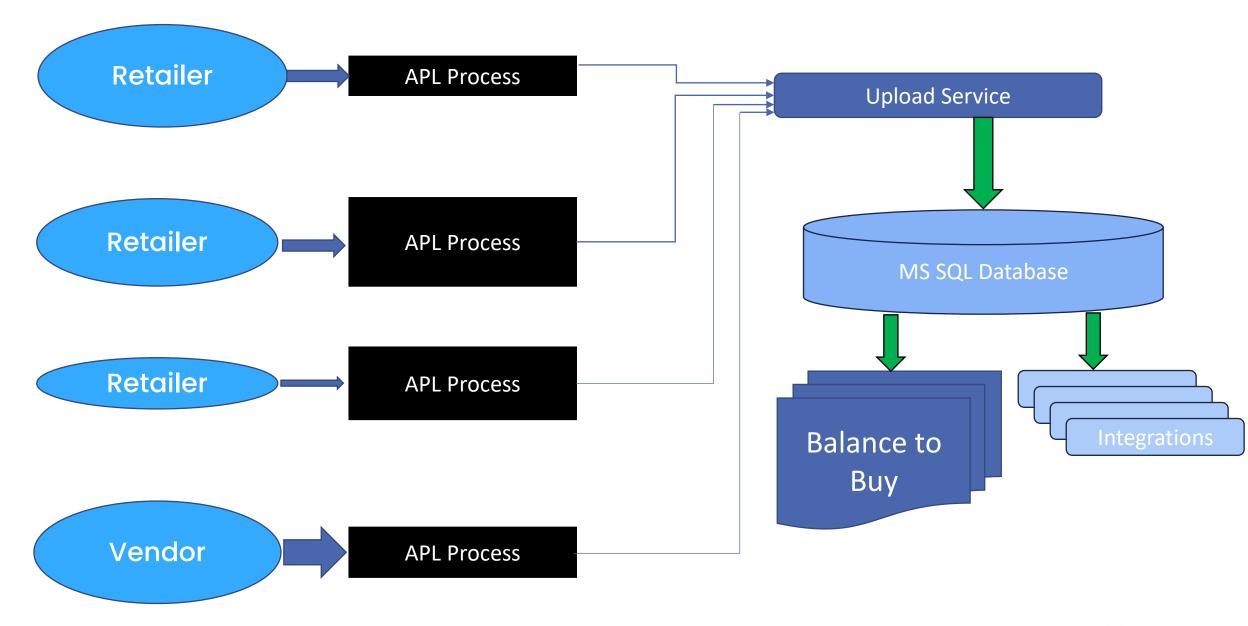




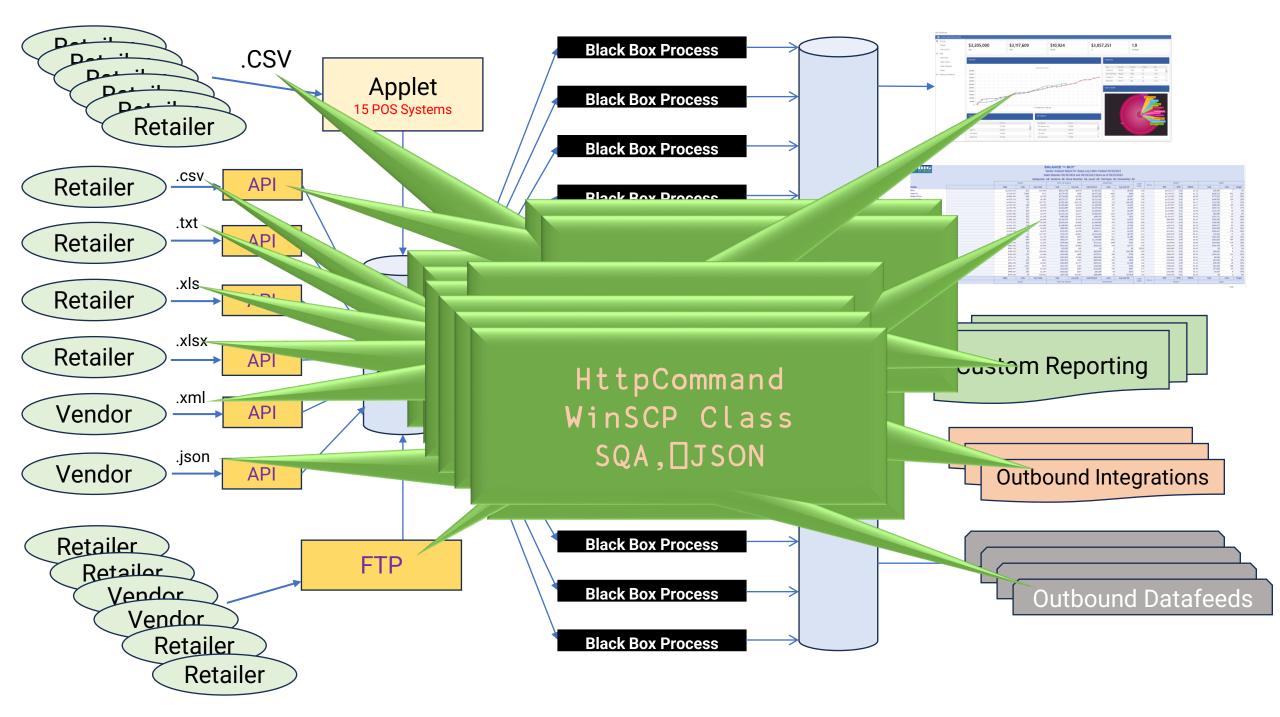












Academy View (ALPHA)

Training				
Videos	\$4,665,000	\$2,597,650	\$2,659,777	-2.2
One on One	Goal	MTD Sales	LY Sales	% Change Sales
		\$3,211	\$3,071	5.5
👜 Data		MTD New	LY New	% Change New
Store View	\$147,668	\$26	\$21	19.2
Team Viewer	Per Day	MTD Avg Ticket	LY Avg Ticket	% Change Average
Sales Associate				

Settings and Reports

Top Vendors

Top Vendors:

Gn Diamond

Rahaminov Diamonds Inc

Lagos Inc

Rolex

\$ Amount:

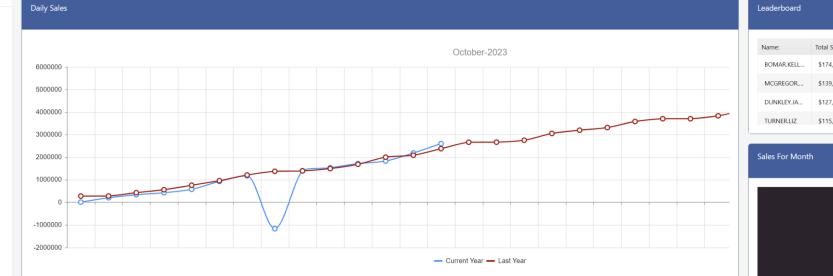
\$603,250

\$202,420

\$192,114

\$190,481

Goals



Top Categories

Top Categories:

150 -Dia Ear

190 -Dia -Loose

610 -Silver Brac

500 -Watches -Luxury

.

•

\$ Amount:

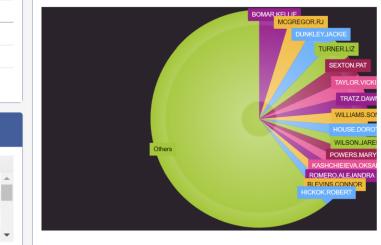
\$603,250

\$270,068

\$266,744

\$134,137

Name:	Total Sales:	Avg Ticket:	# Tickets:	GP%:	% New	
BOMAR.KELL	\$174,035	6001	29	42	0	
MCGREGOR	\$139,531	15574	12	46	8	
DUNKLEY.JA	\$127,344	6445	20	40	40	
TURNER.LIZ	\$115,521	3935	30	50	37	



BIG

New Production Environment

- Windows Service
- Code in text files
- Full Source Control
- Global file handling
- Global error handling



Thank you!

Dyalog '23 – 10/16/2023 Mark I.Wolfson

