



**GROUP 1** SOFTWARE

# Customer Data Quality Platform

## Enabling Master Data Management

**Navin Sharma**  
Pitney Bowes Software

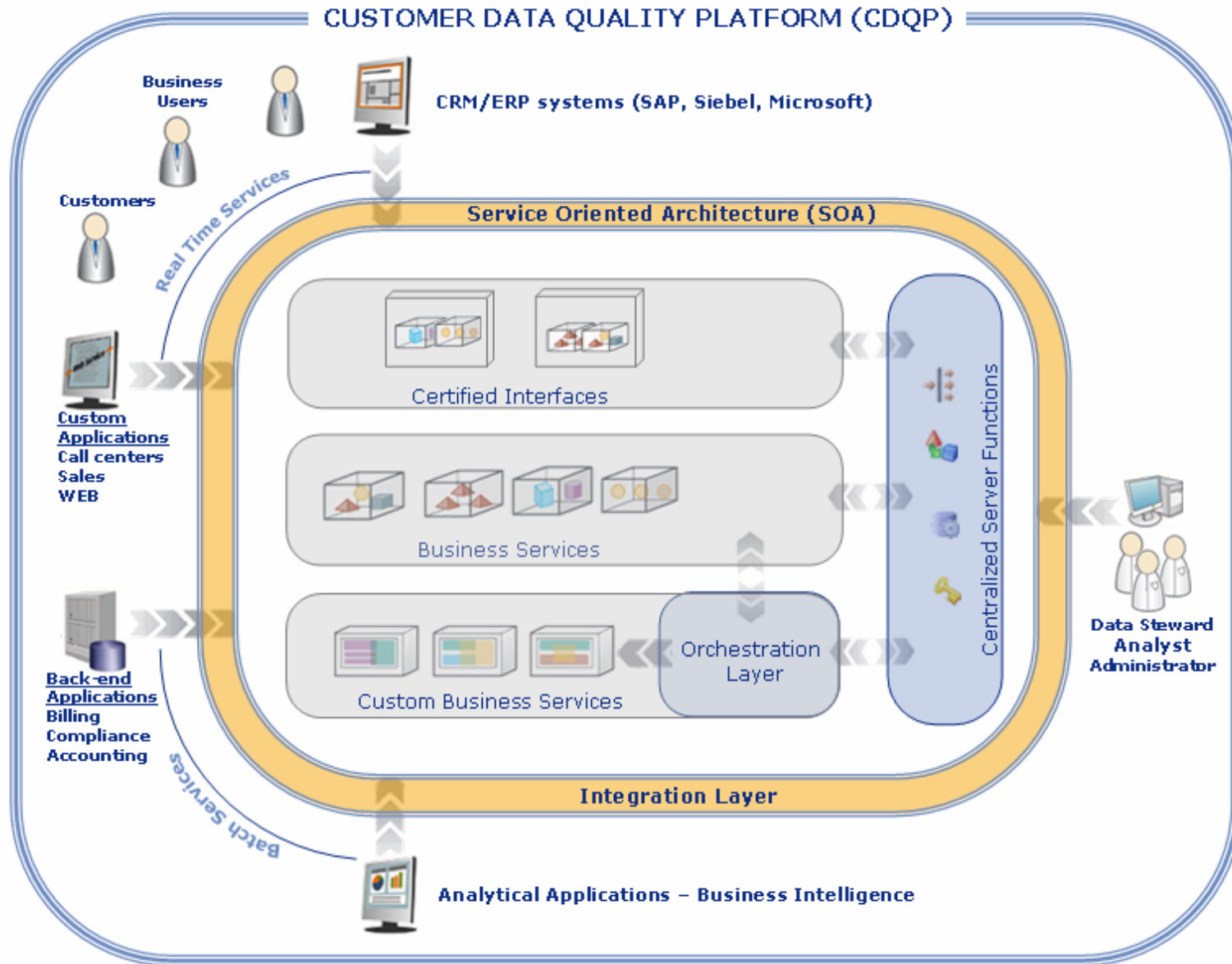
# Pitney Bowes Software –

## Helping Our Customers Manage Their Customer Portfolio

- Understand
  - Data integration
  - Data Profiling
  - Data quality
    - Data Cleansing
    - De-duplication & Householding
    - Consolidation
  - Geospatial data analysis and enrichment
- Connect
  - Mail preparation and mailing efficiency
  - Multi-channel customer communication management



# PBG1 – CDQ Platform

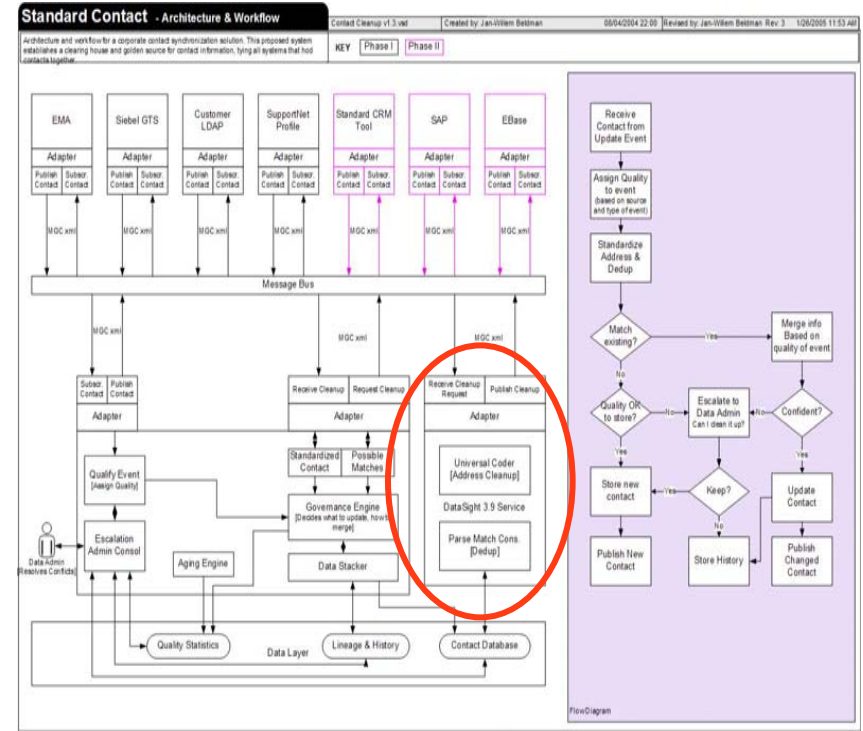


# Functional Strengths

- Built-in knowledge for identifying and resolving syntactical and semantic ambiguities and inconsistencies
- Address quality that uses multiple reference data sources
  - US Postal (DPV, LACS<sup>Link</sup>, RDI, NCOA<sup>Link</sup>, EWS),
  - Non-Postal (NAVTEQ, TeleAtlas, TIGER, Targus, Experian, Customer-Supplied),
  - Global (UPU, Country-Specific) to provide a richer and wider universe
- Multi-cultural name recognition.
- Superior match algorithms for entity resolution and link analysis.
- Pattern analysis and domain validation and standardization.
- Best-in-class data enrichment with point-level geocoding and location based intelligence.
  - Demographic (Census, Claritas, Prizm, LifeStyle)
  - Business Geographics (tax jurisdictions, proximity to service locations)
  - Geographic Risk (flood plains, hurricane tracks)

# Case Study

- **COMPANY** – B2B Technology leader in electronic design automation (EDA), providing software and hardware design solutions that enable companies to develop better electronic products faster and more cost-effectively.
- **PROJECT** – Develop a corporate wide master contact database
- **DRIVER** – Corporate Marketing wants to better identify the physical location of leads so that marketing messages can be more targeted.
- **CHALLENGE** – Disparate Sources Systems with Contact information – EMA, SAP, Siebel, SFA.
- **REQUIREMENTS** –
  - Standardize, match & maintain unique contacts in the contact database with real-time updates into source systems.
  - PHASE I: Create a master contact data hub
  - PHASE II: Create a Publish & Subscribe Architecture
- **SOLUTION** – Java Messaging Service (ESB) with Group 1's Customer DQ Services at the core.



# Lessons Learned

- Identify what's important (in-scope)
  - Data domain that will drive immediate business value
  - Number of sources to integrate
- Leverage existing people and technology resources
  - Data Modelers, DBA, Data Warehouse, EAI, ETL
- Learn from the CRM mistakes
  - Make Data Quality/Governance a key requirement for your project from Day 1
- Beware of the “one vendor” approach
  - MDM vendors quick to discount the value of data quality
  - Data Quality vendors quick to discount the value of a “Master Data Hub”

# Technology Evaluation

- Do I need to buy MDM or can I make do with what I have internally?
- Based on what's in scope and existing resources do I need an army of consultants with enterprise software? And if so,
- Vendor Selection
  - Benchmark for data accuracy & completeness
  - POC for ease of deployment, configuration and integration (out-of-the box experience)
  - Combination of Architectural Foundation, Experience with core needs and Long term viability as a partner

