# Project 2: Developing Key Enterprise Architecture Artifacts for Strategic Alignment

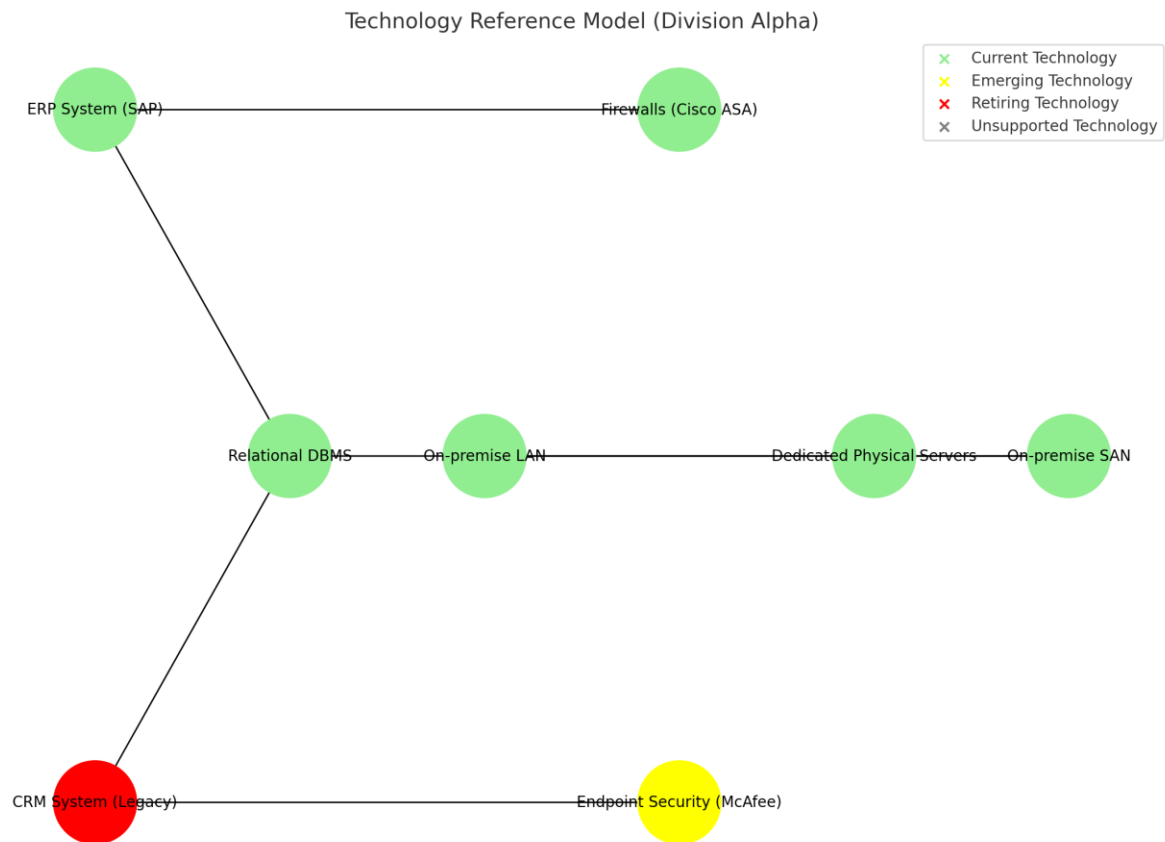Dimitris C. Zoumpakis [redacted]


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# Part A: Technology Reference Model (TRM) for Division Alpha



Technology Reference Model (Division Alpha)

1.
2. The TRM focuses on operational efficiency and stability
   a. **Infrastructure**: On-premises infrastructure ensure secure and reliable connectivity, reducing dependence on external factors
   b. **Data**: Use of RDBMS aligns with divisions needs for structured data storage with consistency
   c. **Applications**: SAP ERP to support end-to-end manufacturing processes and retirement of legacy CRM to reduce costs
   d. **Security:** Emphasizing on security with Cisco firewalls and antivirus software to protect sensitive manufacturing data and support uninterrupted operations

# Part B: Standard-Related Artifacts for Division Beta

## Logical Data Model

Logical Data Model for Division Beta
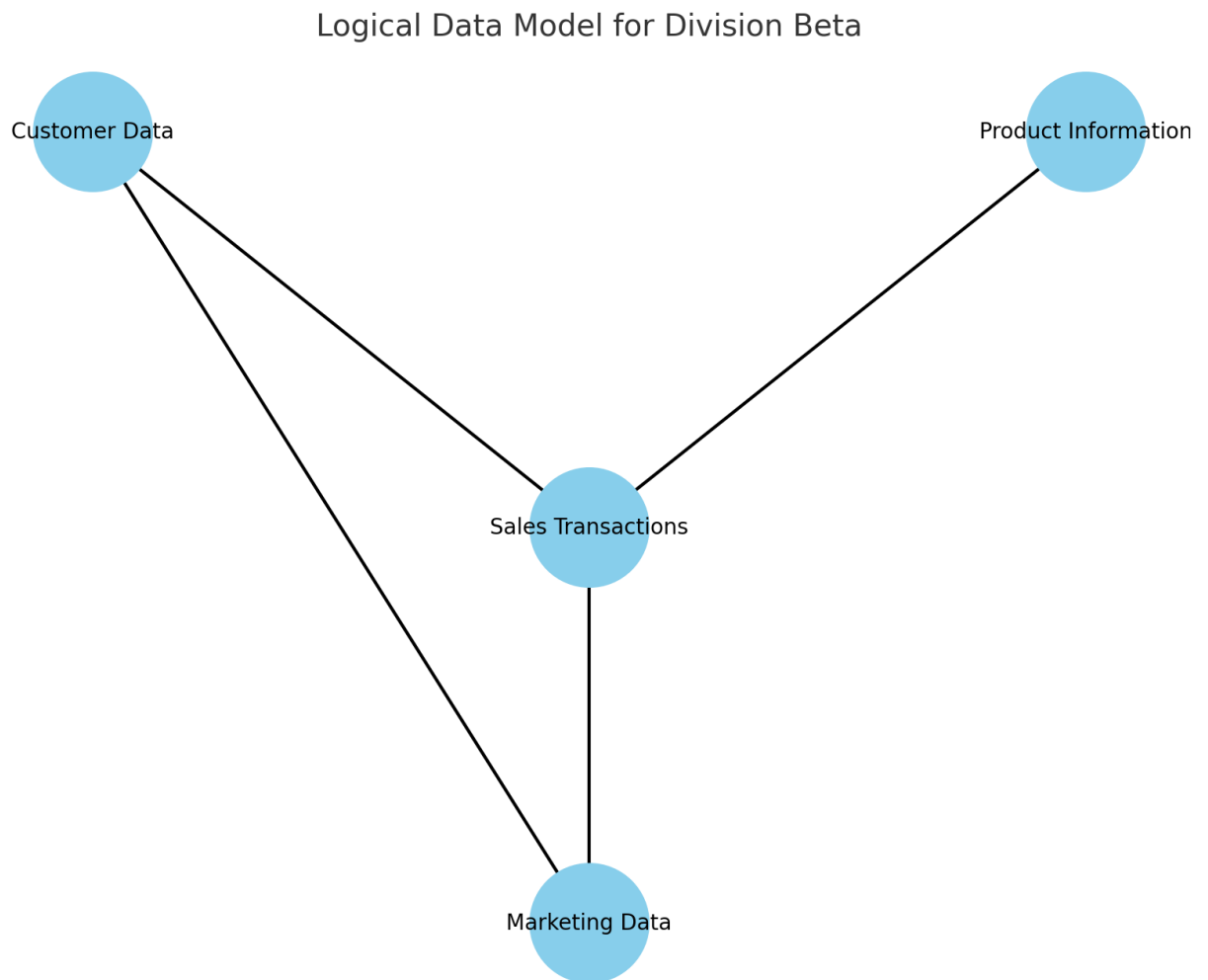


The Logical Data Model ensures consistency and integration across operations of Division Beta

- **Customer Data**: Seamless tracking of purchases and cross selling
- **Product Information**: Inventory Management for agile decision making
- **Sales Transactions**: Central entity linking customers with products, giving real time insights
- **Marketing Data**: Campaigns align with customer needs, fostering innovation in marketing and targeting strategies


## IT Principles

1. Data Scalability
    a. Description: Ensures data systems can handle increasing volumes of information as the division expands
    b. Justification: Supports future growth and innovation
2. System Interoperability
    a. Description: All systems integrate seamlessly to enable cross-functioning collaboration
    b. Justification: Agility and efficient operations across all product lines
3. Agile Developemnt Framework
    a. Description: Adaptation of modular and flexible development practices to help ever-evolving business needs
    b. Justification: Rapid deployment of new technologies
4. Security by Design:
    a. Description: Robust security measures at every stage of system development
    b. Justification: Protects sensitive data while supporting innovation
5. Cloud First Strategy:
    a. Description: Prioritizing cloud-based solutions for scalability and flexibility matters
    b. Justification: Enhancement of operational agility and cost efficiency