# **BigCorp Integration Requirements**

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## **Executive Summary**

BigCorp requires an enterprise-grade integration solution for bulk data operations, with specific focus on security, reliability, and performance. This document outlines the business requirements and success criteria for the integration.

#### **Business Goals**

- 1. Enable BigCorp to migrate 10M+ historical records
- 2. Support ongoing sync of 500k daily transactions
- 3. Maintain data integrity and audit compliance
- 4. Achieve sub-15min processing time for standard imports

## **User Stories**

#### As a BigCorp Data Admin

- I need to bulk import customer records from our legacy CRM
- I want to validate data before committing to import
- I need to track progress of ongoing imports
- I must be able to retry failed records
- I need detailed error reports for failed imports

#### As a BigCorp Security Officer

- I must ensure all data is encrypted in transit and at rest
- I need comprehensive audit logs of all operations
- I want to rotate security credentials regularly
- I need to restrict access by IP and user role

#### As a BigCorp Integration Engineer

- I need clear API documentation
- I want to test imports in a staging environment
- I need to handle custom field mappings
- I must maintain backward compatibility

## **Success Criteria**

Performance		
	Process 100k records in under 10 minutes Support 5 concurrent import jobs Achieve 99.9% uptime for API endpoints Handle 1000 API requests per minute	
Security		
	SOC 2 Type II compliance End-to-end encryption HMAC authentication Detailed audit logs	
Quality		
	Zero data loss guarantee Automated data validation Comprehensive error reporting Rollback capability	

### **Timeline**

- Phase 1 (Week 1-2): API Design and Security Review
- Phase 2 (Week 3-4): Implementation and Internal Testing
- Phase 3 (Week 5): BigCorp UAT
- Phase 4 (Week 6): Production Deployment

## **Risks and Mitigations**

#### **Performance Risk**

- Risk: Processing time exceeds requirements
- Mitigation: Implement async processing with progress tracking

### **Security Risk**

- Risk: Unauthorized data access
- Mitigation: Implement multiple security layers and regular audits

## **Integration Risk**

- Risk: Data format incompatibility
- Mitigation: Comprehensive validation and flexible field mapping

## **Technical Dependencies**

- 1. AWS Infrastructure
  - SQS for job queue
  - Lambda for processing
  - Redis for rate limiting
- 2. Security Infrastructure
  - HMAC authentication
  - TLS 1.3
  - AES-256 encryption
- 3. Monitoring Infrastructure
  - Real-time dashboards
  - Alert system
  - Audit logging

## Sign-off

BigCorp CTO
BigCorp CISO
BigCorp Integration Lead
Our Technical Lead
Our Security Lead