

# Data Lineage Report

## Report Information:

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## Data Lineage Analysis Report

### *Data Lineage Overview*

This report provides comprehensive analysis of data flow, dependencies, and lineage across the SAP S/4HANA Plant Maintenance system.

### *Data Flow Analysis*

- SAP S/4HANA → Data Extraction Layer
- Data Extraction → Validation Engine
- Validation Engine → PostgreSQL Database
- Database → Reporting & Analytics

### *Key Data Dependencies*

- Equipment Master Data → Maintenance Orders
- Functional Locations → Equipment Hierarchy
- Maintenance Plans → Scheduled Activities
- Notifications → Work Orders

### *Data Quality Impact Analysis*

- Upstream data quality issues affect downstream processes
- Validation failures impact reporting accuracy
- Data lineage gaps create audit trail challenges

### *Recommendations*

1. Implement comprehensive data lineage tracking
2. Establish data quality gates at each stage
3. Create automated lineage documentation
4. Monitor data flow performance metrics
5. Implement data lineage visualization tools