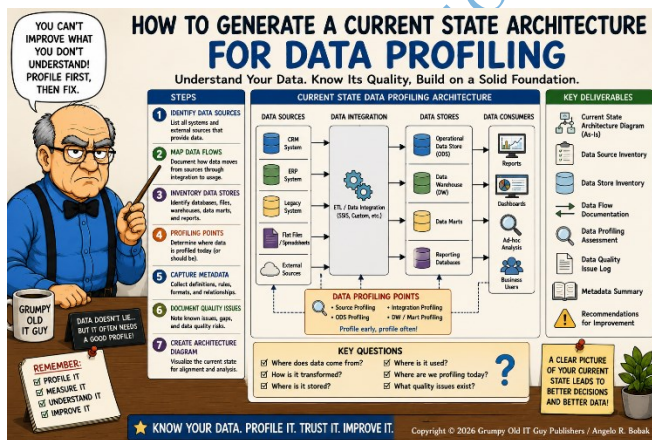


Appendix 4 – Current State Architecture Deliverables & Artifacts.

Version 1.0

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A thorough understanding of the current technology environment is the foundation of every successful data management, governance, and modernization initiative.



Before organizations can design future-state architectures or implement data quality improvements, they must first document how information currently flows through the enterprise, where critical systems reside, how data is integrated, and where quality risks exist. This appendix describes the key deliverables and artifacts produced during a Current State Architecture assessment, including inventories, process flows, application landscapes, data

models, integration diagrams, technology catalogs, and governance documentation.

Together, these artifacts provide a comprehensive baseline for identifying architectural gaps, prioritizing remediation efforts, and developing a practical roadmap toward a more integrated, governed, and trusted enterprise data environment.

Outputs Produced During the Assessment

A current-state assessment produces a collection of architectural, technical, and business artifacts that document how the enterprise operates today.

These deliverables provide the baseline needed to identify gaps, assess risks, prioritize improvements, and support the design of future-state architecture.

The following table summarizes the key outputs generated during the assessment and their purpose.

Artifact	Purpose	Typical Deliverables
1. Executive Assessment Report	Summarizes overall findings	Executive summary, business drivers, risks, recommendations
2. Business Process Assessment	Documents where poor data quality impacts operations	Current business process diagrams, affected departments, pain points, manual workarounds

Artifact	Purpose	Typical Deliverables
3. Current Data Architecture	Documents enterprise data landscape	Source systems, databases, data flows, integrations, data warehouses, data lakes
4. Current Application Architecture	Inventory of applications	ERP, CRM, HR, Finance, Manufacturing, custom applications
5. Technology Architecture	Documents hardware and software	Servers, storage, cloud platforms, SQL Server instances, operating systems, networking
6. Data Integration Architecture	Documents data movement	SSIS packages, APIs, batch jobs, message queues, ETL schedules
7. Data Quality Assessment	Measures current quality	Profiling reports, duplicate rates, completeness, accuracy, consistency, timeliness
8. Master Data Assessment	Evaluates master data management	Customer, Product, Vendor, Employee master data, ownership, synchronization
9. Reference Data Assessment	Reviews shared code tables	Countries, currencies, states, product categories, lookup tables
10. Metadata Assessment	Evaluates metadata maturity	Business glossary, technical metadata, lineage, data dictionary

Artifact	Purpose	Typical Deliverables
11. Governance Assessment	Measures governance maturity	Policies, standards, stewardship, governance council, issue management
12. Security & Compliance Assessment	Reviews compliance posture	GDPR, HIPAA, SOX, PII, access controls, auditing
13. Reporting Assessment	Reviews reporting quality	Dashboards, KPIs, scorecards, trusted reports, report duplication
14. Infrastructure Capacity Assessment	Determines scalability	CPU, memory, storage, SQL Server performance, cloud readiness
15. Organization & Staffing Assessment	Reviews people and skills	Current roles, data stewards, DBAs, analysts, governance staff, training needs
16. Software Inventory	Documents technology assets	SQL Server, MDS, DQS, SSIS, SSRS, Purview, Fabric, Power BI, third-party tools
17. Hardware Inventory	Documents infrastructure	Servers, SAN/NAS storage, virtualization, backup, networking
18. Current Pain Point Register	Captures business issues	Duplicate customers, poor reporting, manual cleansing, inconsistent codes
19. Risk Assessment	Identifies business risks	Financial risk, compliance risk,

Artifact	Purpose	Typical Deliverables
20. Maturity Assessment	Establishes baseline	operational risk, reputational risk Overall Data Quality Maturity Score using your GITG-DQMM™

Gap Analysis Deliverables

The gap analysis compares the current environment with the target architecture and typically produces:

- Missing software platforms
- Missing hardware capacity
- Missing governance processes
- Missing business policies
- Missing data standards
- Missing metadata
- Missing master/reference data repositories
- Missing stewardship roles
- Missing skills and training
- Missing reports and dashboards
- Missing monitoring capabilities
- Missing security controls
- Missing integration capabilities
- Project Portfolio

The gaps are grouped into implementation projects. A typical portfolio might include:

Project Portfolio

The gaps are grouped into implementation projects. A typical portfolio might include:

- DG-101 Data Governance Framework
- DQ-201 Enterprise Data Profiling
- DQ-202 Data Cleansing Initiative
- MDM-301 Master Data Repository
- RDM-302 Reference Data Repository
- META-401 Enterprise Metadata Repository
- INT-501 SQL Server / Fabric Integration
- REP-601 Executive Dashboards & Scorecards
- GOV-701 Stewardship Workflow
- AI-801 AI-Based Data Quality Monitoring

For each project, a timeline in the form of a Gantt chart plus other project plan deliverables needs to be created.

Methodology

A complete methodology could look like this:

1. Discovery & Current State Assessment
2. Future State Architecture
3. Gap Analysis
4. Business Case & ROI
5. Project Portfolio Development
6. Program Management Office (PMO)
7. Implementation Roadmap
8. Technology Deployment
9. Data Governance Rollout
10. Operational Transition

11. Continuous Monitoring & Improvement
12. Program Maturity Assessment (GITG-DQMM™)

This sequence provides an implementation team with an end-to-end blueprint for implementing enterprise data quality and governance, extending well beyond a description of individual tools.

It would also integrate naturally with the other original frameworks we've developed throughout the handbook.

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