Data Fabric Architecture (High level)

**[01] External Interacting Parties**

External Party Business actor

These are the range of external parties that supply data to and access data from the enterprise.

**[02] External Party Interaction Zones, Applications, Channels and Facilities**

- External Party Application interaction

These are the set of applications and data channels provided by external parties that allow them to supply data to and access data from the enterprise. These can be hosted internally or externally, or a mix of both.

**[03] External Party Interaction Zones Data Stores**

External Party Data Stores Application collaboration

These are applications and sets of data created by external parties, and external parties can access information and interact with the enterprise.

**[04] External Third Party Applications**

External 3rd Party Applications Interaction

These are third-party applications (such as social media platforms) that contain information about the enterprise or that are used by the enterprise to present information to or interact with external parties or where the enterprise is referred to, affecting the perception or brand of the enterprise.

**[05] External Data Sensors**

External Data Sensors Application interaction

Sources of remote data measurements

**[06] External Data Devices**

External Data Devices Technology interaction

These are devices connected with services offered by the enterprise (such as ATMs and Kiosks).

**[07] Data Intake/Gateway**

Data Intake Gateway Application collaboration

This is the set of facilities for handling data supplied to the enterprise including validation and transformation, including a possible integration or service bus. This can be hosted internally or externally or a mix of both.

**[08] Line of Business Applications**

Line of Business Application collaboration

This represents the set of line of business applications deployed on enterprise owned and managed infrastructure used by business functions to operate their business processes.

**[09] Line of Business Applications hosted outside the organisation**

Line of Business Application collaboration

This represents the set of line of business applications deployed on external infrastructure used by business functions to operate their business processes. This includes cloud facilities such as external data storage and SaaS facilities and an integration service to connect external data to internal data.

**[10] Desktop Applications**

Desktop Applications interaction

These are applications used by individual users to view and author documents.

**[11] Data Storage Platforms**

Data Storage Platforms Application collaboration

Operational Data Stores - These are the various operational data stores used by the Line of Business Applications.

Unstructured Data Stores - This provides structured access to documents and information including externally hosted applications providing these facilities.

**[12] External Application Operational Data Stores**

Data Storage Platforms Application collaboration

These are the various operational data stores used by the Line of Business Applications hosted outside the organisation.

**[13] Document Centric Applications**

Document Centric Applications collaboration

Doc Management Systems - These are systems used to manage transactional and ad hoc structured and unstructured documents in a formal and controlled manner, including the metadata associated to documents.

Doc Sharing & Collaboration - These are tools used within the enterprise to share and collaborate on the authoring of documents.

Document Information Portal - This provides structured access to documents and information, including externally hosted applications providing these facilities.

**[14] Cloud Extension to Data Mastering, Reporting and Analysis Facilities**

Data Mastering Applications collaboration

These are facilities to create and manage master data and data extracted from operational data to create a data warehouse and data extracts for reporting and analysis. This includes an extract, transformation, and load facility. These can be hosted internally or externally or a mix of both.

**[15] Data Reporting and Analysis Facilities**

Data Reporting and Analysis Applications collaboration

These represent the range of applications created by the enterprise to present information to or interact with external parties, external parties can access information and interact with the enterprise.

**[16] Data Mastering**

Data Mastering Applications collaboration

These are facilities to create and manage master data and data extracted from operational data to create a data warehouse and data extracts for reporting and analysis. This includes an extract, transformation, and load facility. These can be hosted internally or externally or a mix of both.

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https://www.slideshare.net/alanmsweeney/designing-an-enterprise-data-fabric