



Longitude v3.4 for MOSS Process Flow Diagrams

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Abstract

Longitude v3.4 for Microsoft Office SharePoint Server extends SharePoint Search, Business Data Catalog, and Excel Services to provide innovative features that empower users to find and understand information 10x faster than traditional search and business intelligence technologies.

This white paper describes the technical architecture and process flows for the most common usage scenarios.

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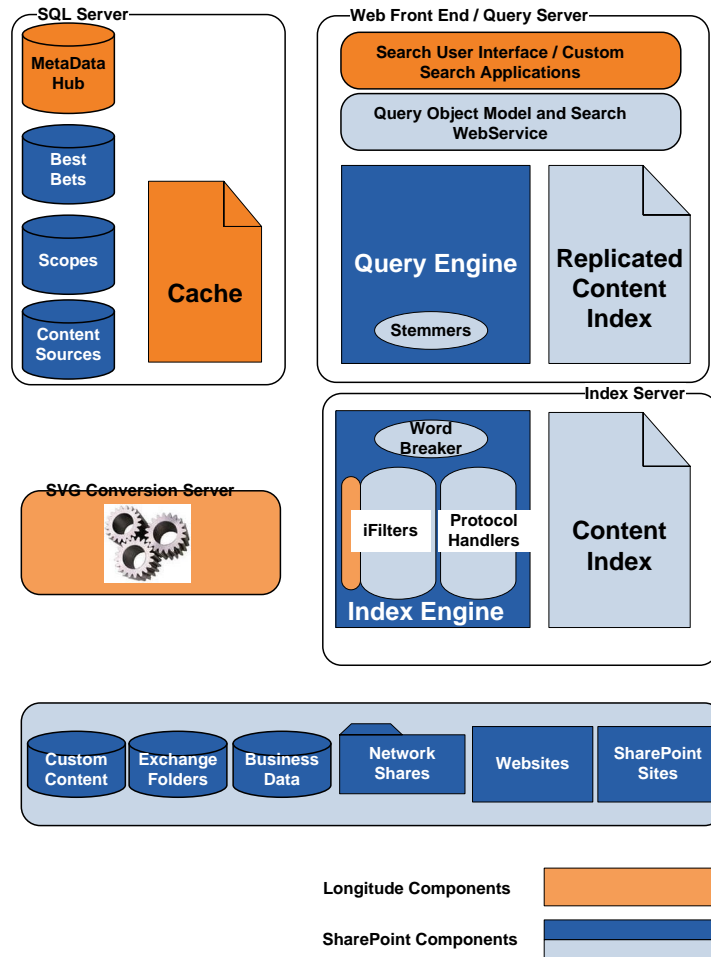
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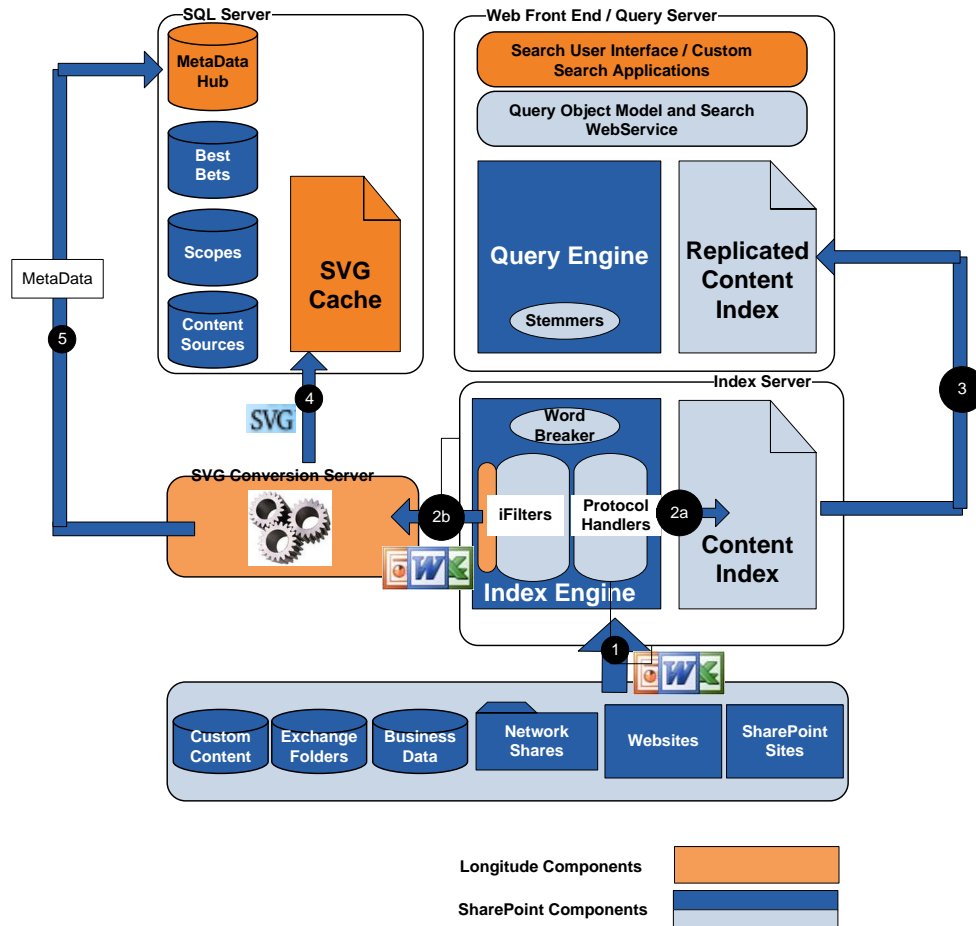
Longitude for SharePoint Architecture Diagram



Architecture Diagram

The diagram above details the architectural components of Longitude for SharePoint. The diagram depicts where Longitude resides physically (i.e. which physical servers).

Indexing Process Flow Diagram

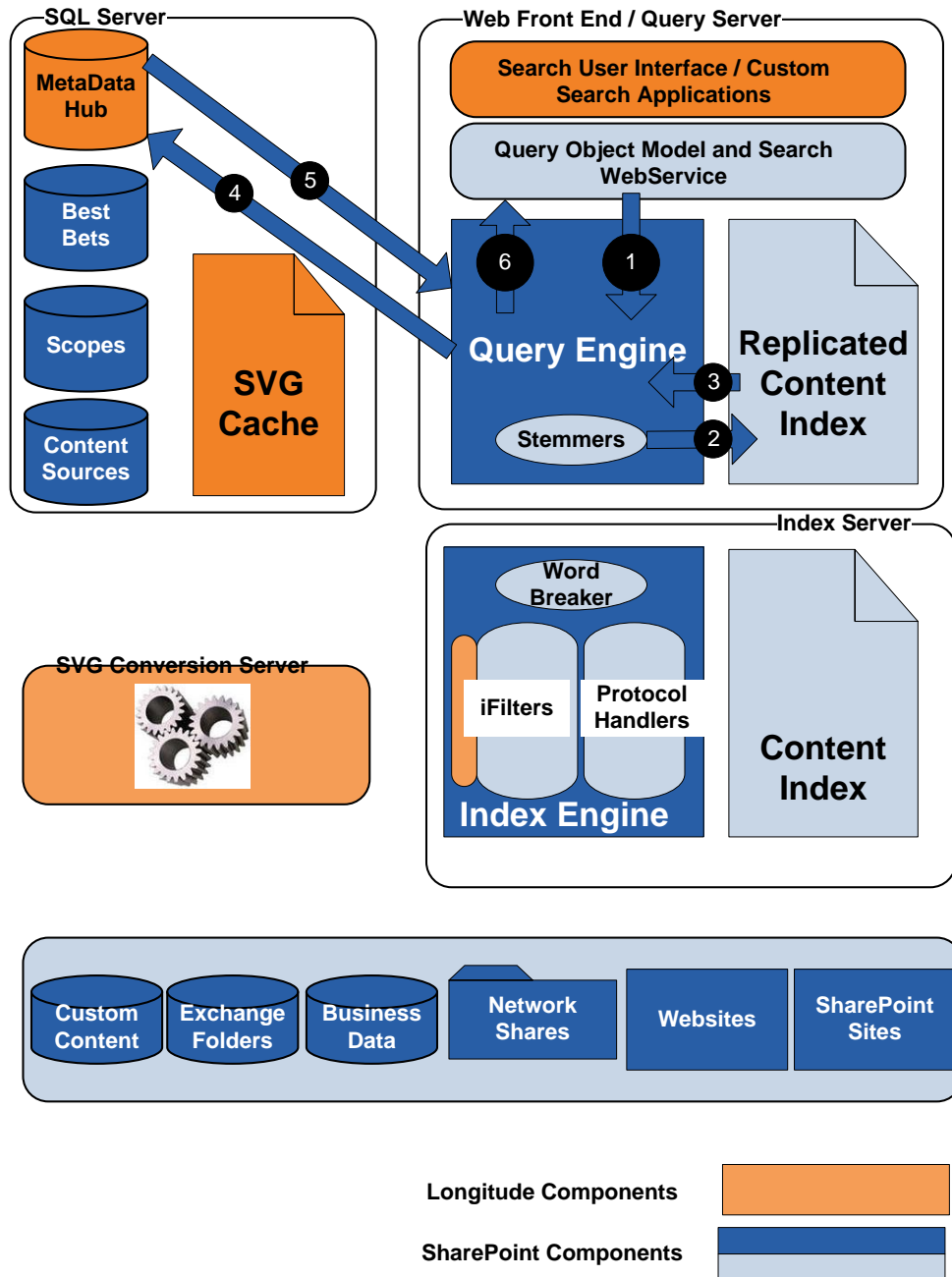


Process Flow

1. SharePoint indexes content sources according to the index schedule.
- 2a. The documents within each content source are transferred back to SharePoint where the appropriate iFilter is called. The document is broken into keyword tokens and the index is created.
- 2b. Longitude's custom iFilter Proxy captures and passes documents to the SVG Conversion Server during the indexing process. SharePoint indexing process is not impacted.
3. The content index is continuously propagated to the query server.
4. Documents are converted into SVG and stored in MS SQL Server Longitude database. The collection of SVG documents is referred to as the SVG Cache.

5. Longitude extracts metadata from the documents during the conversion process and stores it into MS SQL Server Longitude database. The collection of metadata is referred to as the metadata hub.

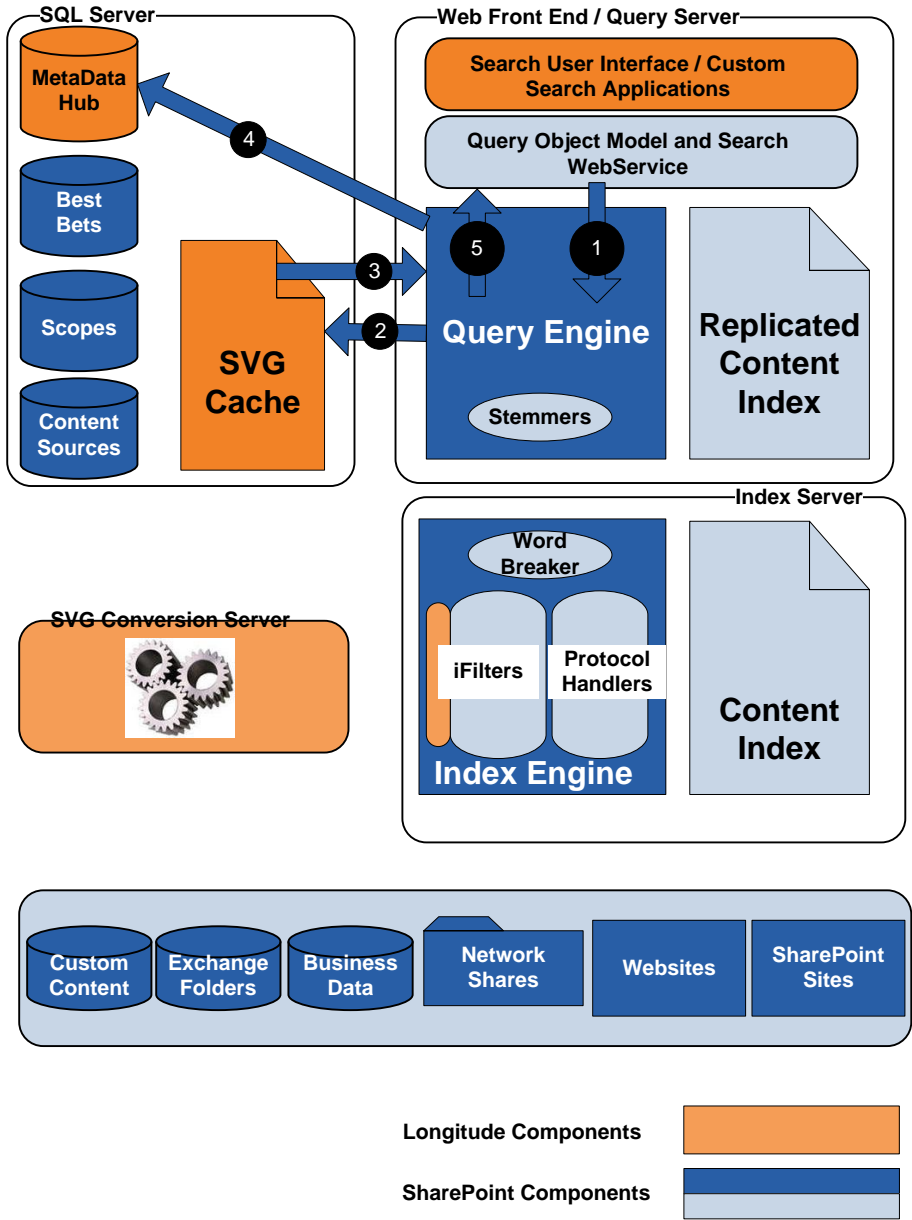
Query Process Flow Diagram



Process Flow

1. User executes a query against SharePoint Search.
2. Query engine receives request and stems keywords. Index is queried for stemmed keywords based on security credentials of the individual executing the query.
3. The index returns the list of relevant documents on page N that the user has read-access to.
4. The metadata hub is queried for the extended metadata of each document
5. The metadata hub returns the metadata associated with each relevant document
6. The enhanced search result is returned to the user

Search Item Selected Process Flow Diagram



Process Flow

1. User selects an Enhanced Search result item.

2. The SVG Cache is queried for the relevant SVG preview
3. The SVG preview is returned to the query engine
4. The user's activities are logged in the metadata hub. Longitude records what user's preview and what actions they take on documents.
5. The SVG preview is returned to the user mitigating the need to download the entire document.