

# Morphological Analysis Service Description and Assumptions - v1.1.1

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## Description

### Summary Description

Interacts with disparate morphology services and text repositories to provide the ability to process, retrieve and store morphological analyses for specified texts.

### Full Description

The Morphological Analysis Service responds to requests for morphological analysis of texts, submits them to the appropriate morphology service for processing and returns the results in XML adhering to a standard morphology schema. The Service supports retrieval of texts for analysis from remote repositories as well as user-supplied chunks of text. Where retrieval from repository is requested, CMIS objectIDs and CTS URNs are supported as document identifiers.

## Assumptions

### Key Concepts

### Dependencies

#### BSP

- Result Set Caching Service
- Notification Service
- Person/Profile/Group Service

#### External

- Text Repositories (CMIS and CTS)
- Morphology Services
- CTS Reference Index Service
- Data Storage Services

## Collaborations

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Linking drawing automatically to page [Scholarly Services - Linguistic Analysis](#)

Component	Responsibility
Client	Initiates Request, Supplies user auth info to person/profiles/services; Supplies personId and documentId to MAST service; retrieves cached results from result set service
Person /Profiles /Groups	Authenticates with IDP; supplies opaque personId to BSP services; validates personId;
MAST service	requests guid from result set cache; identifies repository for document; retrieves documents from remote repository; tokenizes documents into words; issues request(s) to remote morphology service; compiles and stores result set in result set cache service

Result Set Cache Service	creates guid for result set; notifies notification service when result set storage is complete
Notification Service	notifies client of result set availability
Remote Repository	supplies documents
Remote Morphology Service	analyzes words

## Configuration

- general service config
  - list of supported output schemas (alpheios, tbd others)
  - list of supported output formats (xml or json)
  - list of supported languages
  - list of supported input/output encodings
  - list of available text repositories (listed according to default search order)
- language-specific config
  - code
  - description
  - default engine
  - default encoding
- engine-specific config
  - code
  - url
  - supported language(s)
  - engine/provider description
  - options
- repository-specific config
  - code
  - description
  - type (cts or cmis)

## Background Documentation

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