

# proofing-lib-api

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## 1 Introduction

Here's a first, tentative list of functions that should be available in the API. In this first draft, the function names are prefixed with OLA, short for Open Linguistic API.

## 2 Services API

The upper side, where applications or end users ask for linguistic services

### 2.1 Wish list

- count-words (or probably count-strings, as "words" is quite ambiguous)
- parse-document. Returns: true/false depending on whether the parse succeeded. Within the library, the LDOM is stored, that is: basic document structure + default, language independent flat analysis/statistics + language identification + whatever ling. analyses are returned by the ling. processing

## 3 Compatibility Functions

This set of functions is meant to ease integration with existing API's in applications such as OpenOffice.org, etc.

### 3.1 Spell checker

- OLA\_check\_spelling(word, language) -> true/false
- OLA\_get\_speller\_suggestions(word, language) -> ordered list of strings
- OLA\_add\_word\_to\_user\_dictionary(word, language) -> boolean (succeed)
- OLA\_ignore\_word(word) -> boolean (succeed)
- OLA\_reject\_word\_in\_speller(word, language) -> boolean (succeed)

### 3.2 Grammar checker

### 3.3 Hyphenation

### 3.4 TYthesaurus

### 3.5 Dictionary

### 3.6 Translation

### 3.7 MS Office AS verbs

- apply correction v : Replaces a range with the value of the specified autocorrect entry.
- check grammar v : Begins a grammar check for the text range. Returns true if the text range had no errors
- check spelling v : Begins a spelling check for the text range. Returns true if the text range had no errors
- check synonyms v : Displays the thesaurus dialog box, which lists alternative word choices, or synonyms, for the text in the text range.
- get spelling suggestions v : Returns a record that specifies the error kind and a list of words. The AEKeyword for the error kind is type and AEKeyword for the list is list.
- get synonym info object v : Returns a synonym info object that contains the information from the thesaurus on the synonyms, antonyms, or related words and expressions for the specified word or phrase.
- get synonym list for v : Get the list of synonyms for a particular word
- get synonym list from v : Get the list of synonyms using an index into the list of meanings
- text range spelling suggestions v : Returns a record that contains the spelling error type and the list of words suggested as replacements for the first word in the specified range

## 4 Langtech API

The lower side, where language technology tools integrate to offer their services in a uniform way by way of the library/API/Upper side.

## 5 Various notes

- we need encryption on both sides: document content and linguistic analysis, if requested by user or tool provider

## 6 Old stuff

This document specifies the proofing API to be used by outside processes when implementing proofing services based on this library. It is divided into X main sections:

1. document interface functions
2. word-level or lexical entity corrections
3. sentence or paragraph level corrections
4. document-level corrections
5. text prediction functions
6. functions for manipulating linguistic entities, structures and relationship