

# Coveo Enterprise Search

## Web Service Reference

Applies to CES 5 and more

### PerformQuery Method

Performs a query using the parameters specified in a **QueryParameters** object.

#### Parameters

**p\_Params:** The parameters for the query, contained in a **QueryParameters** object.

#### Returns

A **QueryResults** object that contains the query results.

### UpdateUserRating Method

Updates the user rating of a document.

#### Parameters

**p\_DocId:** The id of the document whose rating needs to be updated.

**p\_Rating:** The new rating of the document, ranging from 1 to 5.

### ClearUserRating Method

Clears the user rating for a document.

#### Parameters

**p\_DocId:** The id of the document whose rating needs to be cleared.

### QueryParameters Structure

Holds information about a query to perform through the Web service.

<b>BasicQuery</b> (string)	The basic query expression is used for <b>Did You Mean</b> , the thesaurus, etc. Basically, it should be the one entered by the user.
<b>AdvancedQuery</b> (string)	The advanced query expression contain the various expressions that should not be seen by the user and that are generated by the search page. Most of the time, those are custom field expressions such as @Categories=News.
<b>CollectionNames</b> (string)	The names or Ids of the collections in which the query is be performed.
<b>CollectionIds</b> (int[])	If nothing is specified, all the collections the user can accessed are used. You decide whether you prefer specifying collections by names or Ids.
<b>TimeZoneOffset</b> (int)	The offset from local time to UTC, in minutes for the user that is performing the query. This value is usually retrieved from the Web browser, not from the server.

<b>ReferredLanguage</b> (string)	<p>The optional name of the preferred language for results (e.g.: English, French, Spanish, Dutch, etc).</p> <p>When specified, results in the preferred language have a slight priority boost over the other ones when the results are ranked and sorted.</p>
<b>UseWildcards</b> (bool)	Set to True to enable use of wildcards for this query.
<b>UseCollaborativeRanking</b> (bool)	<p>Set to True to enable collaborative ranking for this query.</p> <p><b>Collaborative ranking</b> is used in enterprise environments, where a track can be kept of which results have been opened by which users. This way, results that are often clicked by users near the one performing the query (in terms of security group membership) will appear higher in the result list.</p>
<b>FilterDuplicates</b> (bool)	<p>Set to True to enable duplicate document filtering. If this is enabled, documents that resemble others will appear only once in the results.</p> <p>Enabling this feature may render the total result count less precise, as only the results up to those being retrieved are submitted to filtering. So, if you have 10 unique documents and then 90 duplicate ones in the result, the first result page will display a total count of 100 results, but when the user jumps to the second page the count will be lowered to 11 and only one result will be displayed.</p>
<b>Optimize</b> (bool)	Set to True to enable exact string query optimizations. Just enable them, this has no noticeable effect.
<b>ExpandQuery</b> (bool)	<p>Set to True to enable query expansion using the thesaurus.</p> <p>The thesaurus is edited through the Administration Tool and provides a way to define synonyms for certain terms, so that when a user looks for <i>car</i>, the search engine also looks for documents containing 'automobile', 'vehicle', etc. If you set this option to true, the expansion is automatically performed. If you leave it to false, then you can still get the expanded query from the results and offer to the user the choice to use it.</p>
<b>FirstResult</b> (int)	The 0-based index of the first result to retrieve. Specify a value other than 0 when you want to display the second, third, etc. page of results.
<b>NumberOf Results</b> (int)	The maximum number of results to retrieve. This is the number of results per page.
<b>SortCriteria</b> (SortByEnum)	The sort criteria to use for sorting results. The most common criterion is Relevance, which uses the main ranking algorithm. You may also sort by date, or by the value of a custom field.
<b>SortByField</b> (string)	The optional name of the field to use for sorting results (when SortCriteria is set to sort by a field value). This field has to be registered in the Administration Tool before it can be specified here.
<b>NeedHighlights</b> (bool)	Set to true to retrieve the highlights for the title, excerpt, etc. The highlights are an array of positions and lengths within the strings where keyword occurs. Your code is responsible of inserting the proper HTML tags inside the string so the words are highlighted.
<b>NeedQueryCorrections</b> (bool)	Set to true to retrieve the potential query corrections. Those are used to implement the <b>Did You Mean</b> feature.
<b>ExcerptLength</b> (int)	<p>The length of the excerpt to retrieve for each result (in characters).</p> <p>You must set this property to a non-zero value to retrieve an excerpt, otherwise no excerpt is provided.</p>

<b>SummaryLength</b> (int)	The length of the summary to retrieve for each result (in words). You must set this property to a non-zero value to retrieve a summary.
<b>NeedConcepts</b> (bool)	Set to True to retrieve the concepts for each result. The concepts are words that have been recognized as important within the document by linguistic algorithms applied to the document's text.
<b>NeedCachedDocumentUris</b> (bool)	Set to true to retrieve the uris that serve for cached versions of the results. This uri refers to the server on which the call to the web service is made. If they are loaded into a browser, the cached html version of the document will be served.
<b>NeededFields</b> (string[])	The names of the fields whose values should be retrieved. You should include here the names of all the fields you want for each result. The resulting values are available through the Fields property of the <b>QueryResult</b> object. The index of the value in the Fields property is the same as the one of the corresponding entry in <b>NeededFields</b> .
<b>RefineByFields</b> (RefineByField[])	The list of fields for which to retrieve possible refinements. This list specifies, for the results of the current query, the fields for which you want to retrieve the list of values. The information about the field and how to sort the values is specified through the <b>RefineByField</b> structure.

### RefineByField Structure

Holds information for a field for which possible refinements should be returned.

<b>Field</b> (string)	The name of the field for which to list the possible values.
<b>DisplayField</b> (string)	The optional name of the field to use to fetch the display value. This can be used if, for example, you want to list the possible network login names, but display the full names instead.
<b>Maximum</b> (int)	The maximum number of values to return.
<b>SortBy</b> (GroupBySortByEnum)	The criteria to use for sorting the results.

### QueryResults Structure

Holds the results of a query.

<b>Executed</b> (bool)	Will be set to true if a query has been executed. If the query was not executed, then there may have not been enough information to execute it (e.g.: No query at all, etc.)
<b>BasicQuery</b> (string)	The basic, effective query expression that was executed. This may not be the same query that you passed in entry if you enabled query expansion through the thesaurus using QueryParameters.ExpandQuery.
<b>AdvancedQuery</b> (string)	The advanced query expression. This is the same query as the one you passed in entry.
<b>ExpandedQuery</b> (string)	The expanded query obtained using the thesaurus. Use this value to offer to expand the query of the user when automatic query expansion is disabled.

<b>TotalCount</b> (int)	The total number of results returned by the query. This number may not be exact if duplicate document filtering has been enabled through the FilterDuplicates property.
<b>Time</b> (double)	The execution time of the query (in seconds).
<b>Filtered</b> (bool)	Will be true if duplicate results are filtered. If no duplicate is found in the results, the value will be false.
<b>Optimized</b> (bool)	Will be true if the query is optimized. This value is not very useful, and may be safely ignored.
<b>QueryCorrections</b> (QueryCorrection[])	The QueryCorrection objects holding information about the potential query corrections. Use those corrections to implement the Did You Mean feature. Although several potential corrections can be specified, typically only the first one is used (a single correction may provide corrections for several different words in the query).
<b>Results</b> (QueryResult[])	The QueryResult objects holding information about the individual results that were retrieved.
<b>RefineByResults</b> (RefineByResult[])	The RefineByResult objects holding information about the values of the requested custom fields within the query results (all of them, not only those that have been retrieved).

### QueryCorrection Structure

Holds the data for a query correction.

<b>CorrectedQuery</b> (string)	The corrected query. This contains the full query, with all corrections applied, but without any html tag to identify them.
<b>WordCorrections</b> (WordCorrection[])	The WordCorrection objects holding information about each word that was corrected. Those objects provide the positions of the corrections in the query, allowing you to highlight them in some way so that the user may see them.

### WorldCorrection Structure

Holds the data for a word correction.

<b>Position</b> (int)	The position at which the correction was made.
<b>OriginalWord</b> (string)	The original word on which the correction was made.
<b>CorrectedWord</b> (string)	The corrected word.

### QueryResult Structure

Holds information about a single query results.

<b>UniqueId</b> (int)	The unique identifier of the result.
<b>Title</b> (string)	The title of the result.
<b>TitleHighlights</b> (Highlight[])	The positions of the query keywords within the title, if the NeedHighlights property was set.

<b>Uri</b> (string)	The uri of the result. Loading this uri in a browser opens the result from its original location.
<b>PrintableUri</b> (string)	The printable version of the uri of the result. This is useful for some types of results (namely Microsoft Exchange), because the uri used to open email within outlook consists of a hex-encoded blob. For those results, the printable uri is the path within the MAPI folders where the items was found.
<b>PrintableUriHighlights</b> (Highlight[])	The positions of the query keywords within the printable uri, if the NeedHighlights property was set.
<b>Score</b> (double)	The score of the result for the query.
<b>Size</b> (int)	The size of the result, in bytes.
<b>IsAttachment</b> (bool)	Will be true if the result is an email attachment.
<b>ContainsAttachment</b> (bool)	Will be true if the result is an email that contains attachments.
<b>ModifiedDate</b> (DateTime)	The last modification date of the result.
<b>IndexedDate</b> (DateTime)	The indexation date of the result.
<b>double</b> (Rating)	The rating of the result (ranging from 1 to 5). This rating is determined by the how many times the result have been opened by the user or the members of the same security groups. It is possible to manually override this rating for a specific user.
<b>IsUserRating</b> (bool)	Will be true if the rating is a user rating (e.g.: That has been manually overridden by the user).
<b>LastView</b> (DateTime)	The last time the result was viewed by the user that performed the query.
<b>NumberOfViews</b> (int)	The number of times the result has been viewed by the user that performed the query.
<b>Excerpt</b> (string)	The excerpt of the result. This excerpt consists of passages of the document that contain the query keywords that have been entered. To retrieve this value, you must set the QueryParameters.ExcerptLength to a non-zero value.
<b>ExcerptHighlights</b> (Highlight[])	The positions of the query keywords within the excerpt, if the NeedHighlights property was set.
<b>Summary</b> (string)	The summary of the result. This summary is automatically generated for each result when it is indexed. It is created by advanced linguistic algorithms that attempt to locate the important sentences in the document. To retrieve this value, you must set the QueryParameters.SummaryLength property to a non-zero value.
<b>Concepts</b> (string[])	The concepts of the result. The concepts are words that have been identified as important by the same linguistic algorithms that the ones used to generate the summary.

**CachedDocumentUri** (string) The uri that serves the cached version of the document. This uri refers to the Web server that hosts the Web service. If it is loaded in a browser, it will load the HTML version of the document that was generated during the indexation.

**Fields** (ResultField[]) The values of the fields that were requested through the NeededFields property of the QueryParameters object.

### RefineByResult Structure

Holds information about the values of a field occurring in the results of the query.

**Field** (string) The name of the field whose values are listed.

**Values** (RefineByValue[]) The values of the field occurring in the results of the query.

### RefineByValue Structure

Holds information about single value of a field occurring in the results.

**Value** (string) The value of the field.

**DisplayValue** (string) The value of the display field (if requested). This value is taken from a random result whose other field equals Value. It is up to you to ensure that the field for which the values are listed and the one used to display have a 1:1 relationship, like for example a field named @LoginName and another named @FullName.

**Count** (int) The number of occurrences of the value in the results.

**Score** (int) The score of the value. The score depends on the number of occurrences and how much those occurrences are nearer to the top of the result list.

### Highlight Structure

Holds information about a highlight within a string (a keyword position).

**Position** (int) The position at which the keyword begins.

**Length** (int) The length of the keyword.

### ResultField Structure

Holds information about a field value for a result.

**Name** (string) The name of the field.

**Value** (string) The value of the field.

### SortByEnum Enum

List of sort criteria's that may be used to sort results.

**Relevancy** Sort by result relevancy, using the main ranking algorithm.

**ModifiedDateAscending** Sort by last modification date, in ascending order.

**ModifiedDateDescending** Sort by last modification date, in descending order.

<b>FieldAscending</b>	Sort by a field value, in ascending order. The name of the field is specified through the SortByField property.
<b>FieldDescending</b>	Sort by a field value, in descending order. The name of the field is specified through the SortByField property.

### GroupBySortByEnum Enum

List of sort criteria's that may be used to sort the values of a field within the results of a query.

<b>Occurrences</b>	Sort values by number of results that have this value.
<b>Score</b>	Sort values by score. The score is computed using the number of results having the value and the proximity of those results to the top of the result list.
<b>AlphaAscending</b>	Sort values in ascending alphabetical order.
<b>AlphaDescending</b>	Sort values in descending alphabetical order.