

# Criteria reference

## Intro

**Criteria** are the filters for Content and Location Search, for generic use of API Search see [Search Criteria and Sort Clauses](#).

A Criterion consist of two parts just like [SortClause](#) and [FacetBuilder](#):

- The API Value: `Criterion`
- Specific handler per search engine: `Criterion Handler`

`Criterion` represents the value you use in the API, while `CriterionHandler` deals with the business logic in the background translating the value to something the Search engine can understand.

Implementation and availability of a handler typically depends on search engine capabilities and limitations, currently only Legacy (SQL) Search Engine exists, and for instance its support for FullText and Field Criterion is not optimal and it is advised to avoid heavy use of these until future search engine arrives.

## Common concepts for most Criteria

For how to use each and every Criterion see the list below, as it depends on the Criterion Value constructor, but *in general* you should be aware of the following common concepts:

- `target`: Exposed if the given Criterion supports targeting a specific sub field, example: `FieldDefinition` or Meta Data identifier
- `value`: The value(s) to *filter* on, this is typically a scalar or array of scalars.
- `operator`: Exposed on some Criteria
  - All operators can be seen on `eZ\Publish\API\Repository\Values\Content\Query\Criterion\Operator`, at time of writing: `IN`, `EQ`, `GT`, `GTE`, `LT`, `LTE`, `LIKE`, `BETWEEN`, `CONTAINS`
  - Most Criteria do not expose this and select `EQ` or `IN` depending on if value is scalar or array
  - `IN` & `BETWEEN` always acts on an array of values, while the other operators act on single scalar value
- `valueData` : Additional value data, required by some Criteria, `MapLocationDistance` for instance

In the Legacy search engine, the field index/sort key column is limited to 255 characters by design. Due to this storage limitation, searching content using the eZ Country Field Type when there are multiple countries selected may not return all the expected results.

## List of Criteria

The list below reflects Criteria available in the `eZ\Publish\API\Repository\Values\Content\Query\Criterion` namespace (it is also possible to make a custom Criterion):

### Only for LocationSearch

Criterion	Constructor arguments description
<code>Location\Depth</code> >= 5.3/2014.03	<code>operator</code> ( <code>IN</code> , <code>EQ</code> , <code>GT</code> , <code>GTE</code> , <code>LT</code> , <code>LTE</code> , <code>BETWEEN</code> ), value being the Location depth(s) as an integer(s).
<code>Location\IsMainLocation</code> >= 5.3/2014.03	Whether or not the Location is a Main Location value ( <code>Location\IsMainLocation::MAIN</code> , <code>Location\IsMainLocation::NOT_MAIN</code> ).

Location\Priority >= 5.3/2014.03	Priorities are integers that can be used for sorting in ascending or descending order. What is higher or lower priority in relation to the priority number is left to the user choice. operator (GT, GTE, LT, LTE, BETWEEN), value being the location priority(s) as an integer(s).
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## Only for ContentSearch

Criterion	Constructor arguments description
Depth DEPRECATED IN 5.3/2014.03	Use LocationSearch with Location\Depth, since Depth can give unpredictable results when content has several locations.
LocationPriority DEPRECATED IN 5.3/2014.03	Use LocationSearch with Location\Priority, since LocationPriority can give unpredictable results when content has several locations.

## Common

Criterion	Constructor arguments description
ContentId	value being scalar(s) representing the Content id.
ContentTypeGroupId	value being scalar(s) representing the Content Type eGroup id.
ContentTypeId	value being scalar(s) representing the Content Type id.
ContentTypeIdentifier >= 5.1/2013.01	value being string(s) representing the Content Type identifier, example: "article".
DateMetadata	target (DateMetadata::MODIFIED, DateMetadata::CREATED), operator (IN, EQ, GT, GTE, LT, LTE, BETWEEN), value being integer(s) representing unix timestamp.
Field	target (FieldDefinition identifier), operator (IN, EQ, GT, GTE, LT, LTE, LIKE, BETWEEN, CONTAINS), value being scalar(s) relevant for the field.
FieldRelation >= 5.3/2014.05	target (FieldDefinition identifier), operator (IN, CONTAINS), value being array of scalars representing Content id of relation. <i>Use of IN means relation needs to have one of the provided ID's, while CONTAINS implies it needs to have all provided id's.</i>
FullText	value being the string to search for, properties is array to set additional properties for use with future search engines like Solr/ElasticSearch.
LanguageCode	value being string(s) representing Language Code(s) on the Content ( <i>not</i> on Fields), matchAlwaysAvailable >= 5.2/2013.11 as boolean.
LocationId	value being scalar(s) representing the Location id.
LocationRemoteId	value being string(s) representing the Location Remote id.
LogicalAnd	A LogicalOperator that takes array of other Criteria, makes sure all Criteria match.
LogicalNot	A LogicalOperator that takes array of other Criteria, makes sure none of the Criteria match.
LogicalOr	A LogicalOperator that takes array of other Criteria, makes sure one of the Criteria match.
MapLocationDistance >= 5.3/2014.03	target (FieldDefinition identifier), operator (IN, EQ, GT, GTE, LT, LTE, BETWEEN), distance as float(s) from a position using latitude as float, longitude as float as arguments
MatchAll	<i>No arguments, mainly for internal use when no filter or query is provided on Query object.</i>
MatchNone	<i>No arguments, mainly for internal use by BlockingLimitation.</i>
MoreLikeThis	<b>NOT IMPLEMENTED</b>
ObjectStateId	value being string(s) representing the Content ObjectState id.

ParentLocationId	value being scalar(s) representing the Parent's Location id
RemoteId	value being string(s) representing the Content Remote id.
SectionId	value being scalar(s) representing the Content Section id.
Subtree	value being string(s) representing the Location id in which you can filter. <i>If the Location Id is /1/2/20/42, you will filter everything under 42.</i>
UserMetadata	target (UserMetadata ::OWNER , UserMetadata ::GROUP , UserMetadata ::MODIFIER), operator (IN, EQ ), value being scalars (s) representing the User or User Group id(s).
Visibility	value (Visibility ::VISIBLE , Visibility ::HIDDEN) , <i>Note: This acts on all assigned locations when used with ContentSearch, meaning hidden content will be returned if it has a location which is visible. Use LocationSearch to avoid this.</i>

**Related topics:**

- [Search Criteria and Sort Clauses](#)
- [Sort Clauses reference](#)