

# Extention of CQL to match abilities of Filter (ECQL)

<b>Motivation:</b>	CQL is limited to its specification; we need a text format for filter and expression
<b>Contact:</b>	<a href="#">Jody Garnett</a> <a href="#">Mauricio Pazos</a>
<b>Tracker:</b>	<a href="http://jira.codehaus.org/browse/GEOT-1666">http://jira.codehaus.org/browse/GEOT-1666</a>
<b>Tagline:</b>	We need a text format for filter and expression

This page represents the **current** plan; for discussion please check the tracker link above.

## Contents:

- [Description](#)
- [Status](#)
- [Tasks](#)
- [Debate](#)
- [API Changes](#)
  - [Facade Class](#)
- [Documentation Changes](#)
- [Resources](#)

## Description

The CQL format has a couple of limitations we need to break free of:

- propertyName OP expression
- there is no support for FeatureId filters

This proposal will create a new query language (called TXT) that looks like CQL but offers support for the above two ideas. We would call it WKT but since we are making up is is not yet known.

## Status

Voting in progress:

- [Andrea Aime](#) (+1)
- [Ian Turton](#)
- [Justin Deoliveira](#) (+1)
- [Jody Garnett](#) (+1)
- [Martin Desruisseaux](#)
- [Simone Giannecchini](#) (+1)

## Tasks

*This section is used to make sure your proposal is complete (did you remember documentation?) and has enough paid or volunteer time lined up to be a success*

---

	no progress	✓	done	✗	impeded	⚠	lack mandate /funds/time	?	volunteer needed
--	-------------	---	------	---	---------	---	--------------------------	---	------------------

status	description	Release
✓	Define the BNF for TXT based on the CQL original (see <a href="#">TXT Language Analysis</a> )	2.6.0
✓	Code refactoring in CQLCopiler class to separate the generated parser from filter builder logic	2.6.0
✓	Create a TXT facade class that is method compatible with CQL	2.6.0
✓	<a href="#">Develop ID predicate</a>	2.6.0
✓	<a href="#">Develop Comparison predicate</a>	2.6.0
✓	<a href="#">Develop Between predicate</a>	2.6.0
✓	<a href="#">Develop Null predicate</a>	2.6.0
✓	<a href="#">Develop IN predicate</a>	2.6.0
✓	<a href="#">Develop LIKE Text Pattern predicate</a>	2.6.0
✓	<a href="#">Develop Spatial Predicate Functions</a>	2.6.0
✓	Update the user guide to present TXT as a non standard option.	2.6.0
✓	Replace TXT by ECQL (src and docs).	2.6.0
	<a href="#">Develop Spatial Relation Predicates</a>	2.6.1

## Debate

We are looking for a better name for the new language

Now: TXT

Options:

- ECQL: Andrea, Mauricio, Matthias
- CQL+: Jody
- TXTQL: Adrian

Name	+	-
TXT	the user can easily see the context	TXT is a file format with a big history
ECQL	All OGC CQL statements are valid in the new language; It is clear for the users that they only need to learn the new language features; maintains the reference to CQL the original language	could be prone to error: only a letter ("E") of difference to distinguish the context
CQL+	idem ECQL	need to be url-escaped in a GET request
TXTQL	the user can easily see the context	hard to pronounce

Conclusion: it will be ECQL (thanks everybody)

## API Changes

### Facade Class

```
class ECQL {
    Expression toExpression( String );
    Expression toExpression( String,
FilterFactory );
    Filter toFilter( String );
    Filter toFilter( String, FilterFactory
);
    List<Filter> toFilterList(String);
    List<Filter>
toFilterList(String,FilterFactory);
}
```

## Documentation Changes

*list the pages affected by this proposal*

- [CQL Parser](#) from the [Module matrix](#) page
- [Home](#)
- [TXT Language Analysis](#)

## Resources

Name	Size	Creator	Creation Date	Comment
------	------	---------	---------------	---------



Drag files from your desktop onto your browser or select files by clicking "Browse"

Children: