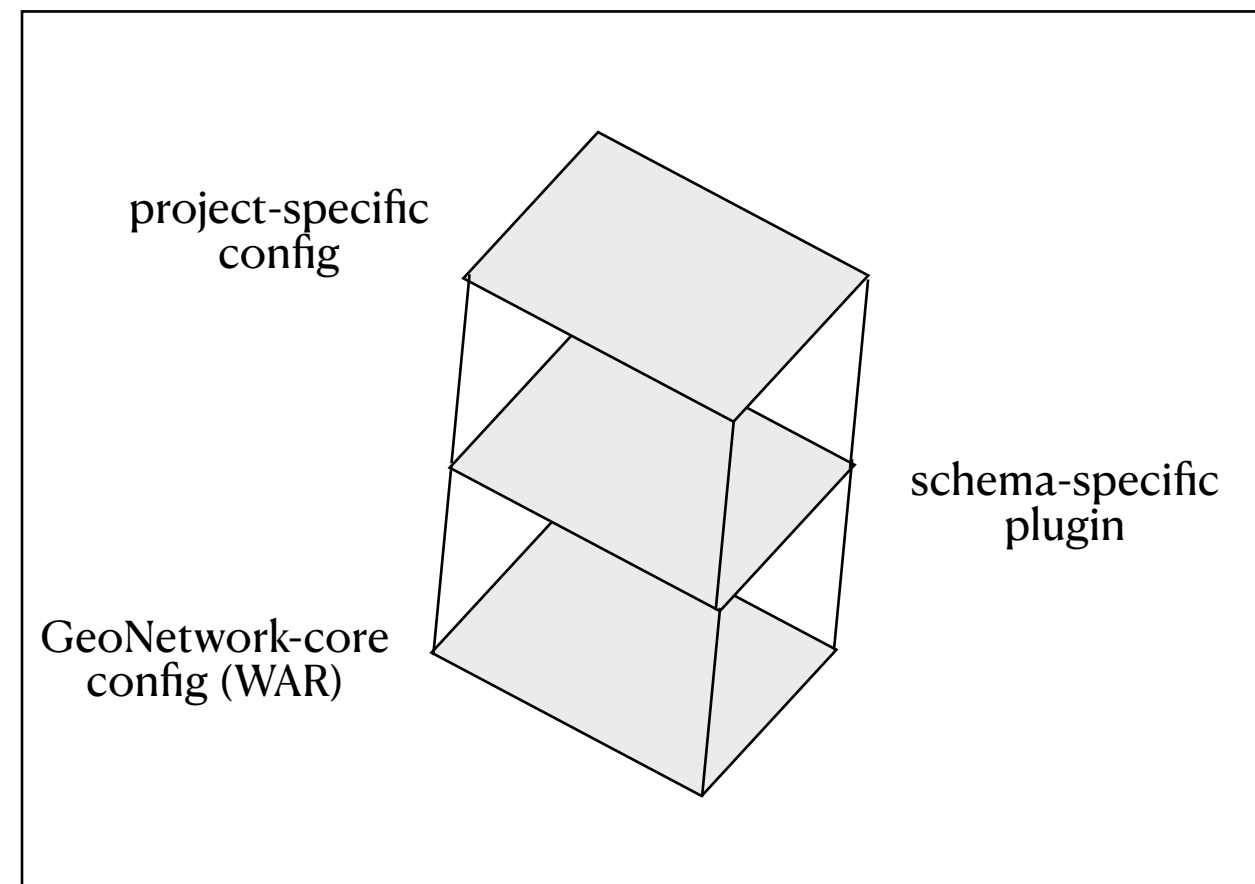


# Configuring GeoNetwork

**...for deployments with *WAR-Overly***

# The WAR-Overlay Technique



WAR-Overlay

The WAR-Overlay technique starts with a base WAR (the standard GeoNetwork WAR) and then has layers on top of this.

Each of these layers can either add new files or overwrite (modify) existing files.

The end result is a new WAR that this is “tuned” at each layer to make is more specific.

In general, there are three layers of settings;

- a) BASE LAYER - this is the standard GeoNetwork WAR, with its default configuration
- b) SCHEMA PLUGIN - this layer adds schemas (i.e. HNAP), with their default configuration
- c) **PROJECT LAYER - this layer adds project-specific configuration**

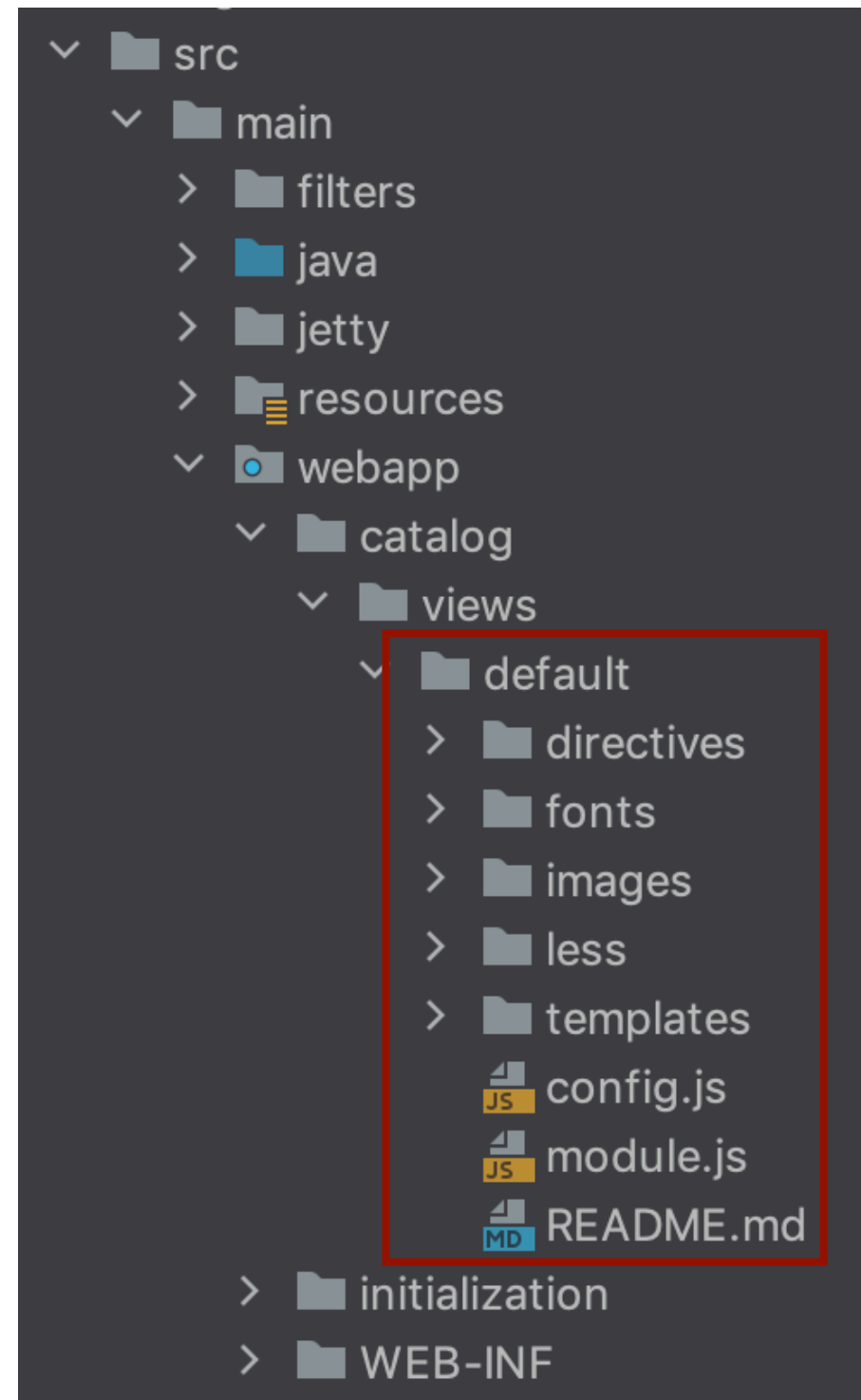
This presentation will look at some of the project-specific configuration option using both standard WAR-overlay technique as well as GeoNetwork specific techniques.

# Overview

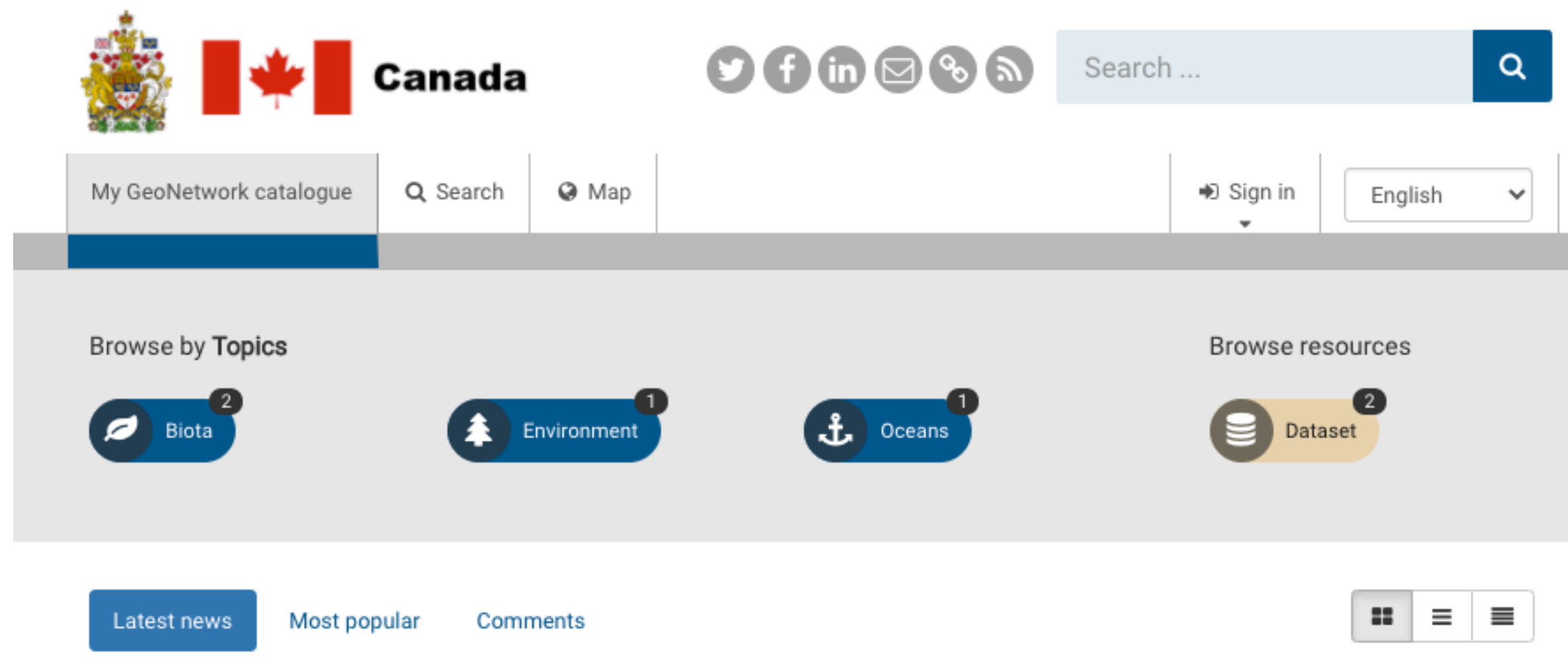
There are three main ways to configure GeoNetwork in the “WAR-overlay” -

- a) Adding/Overwriting files
  - Configuration files
  - Views
- b) Use the Tomcat context (not really in the WAR-overlay)
- c) More sophisticated tools to do things typically done in the UI
  - Settings
  - UISettings
  - User Groups
  - Thesauruses
  - Schematron Criteria (turning Schematron validation on/off)

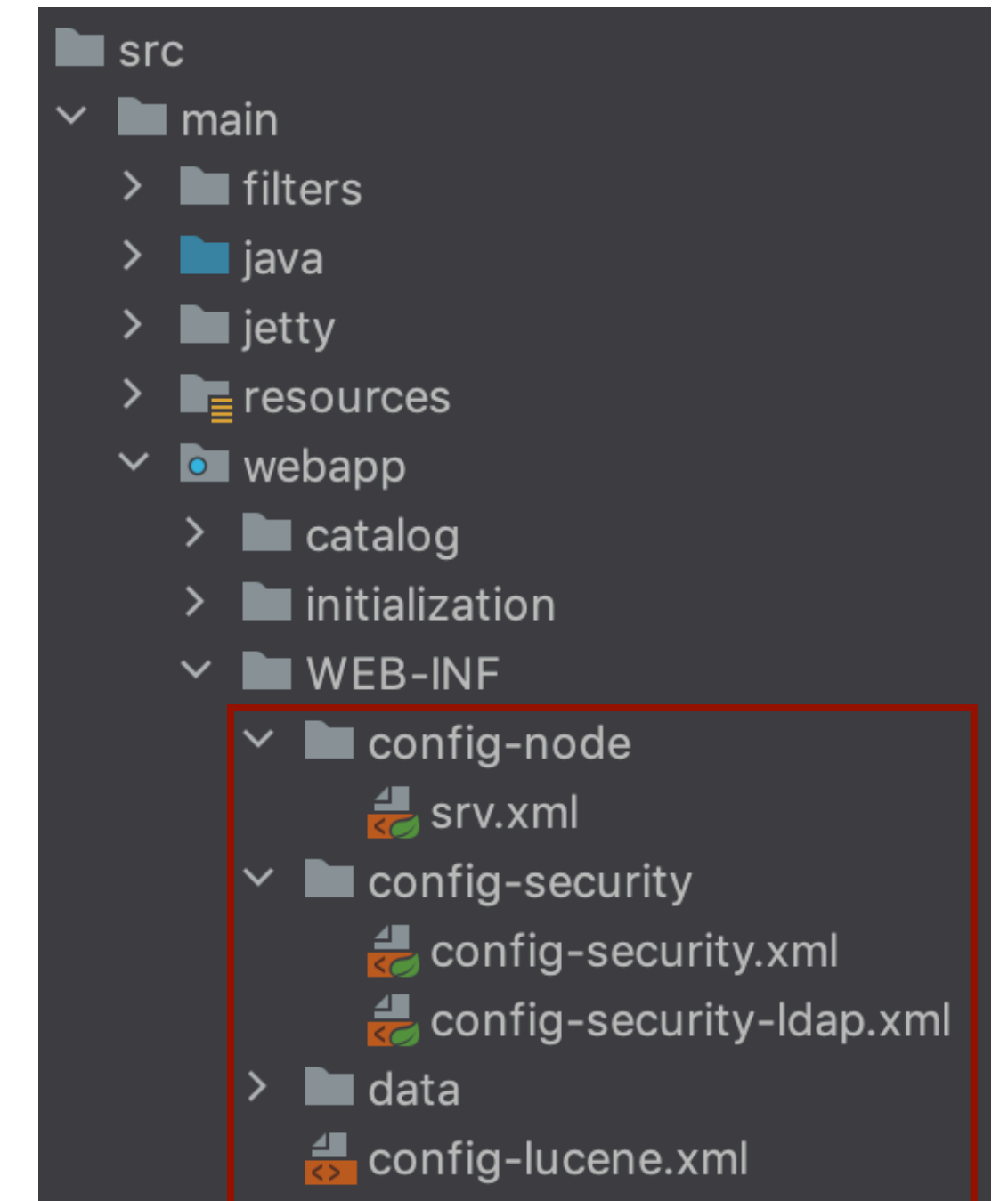
# Adding/Overwriting files



*Overriding the default view*



*Overriding the default view*



*Overriding configuration files  
(i.e. LDAP)*

REMEMBER: put these file in the correct location relative to the WAR (not the GeoNetwork source)

# Use the Tomcat context

```
<?xml version="1.0" encoding="UTF-8"?>
<Context>

  <Environment name="gnDatabaseDialect" value="ORACLE" type="java.lang.String" override="false"/>
  <Resource name="jdbc/geonetwork" auth="Container"
    factory="org.apache.tomcat.jdbc.pool.DataSourceFactory"
    type="javax.sql.DataSource" driverClassName="oracle.jdbc.OracleDriver"
    url="jdbc:oracle:thin:@DBHOST:1521:DBTABLE"
    username="DBUSER" password="DBPASSWORD"
    maxActive="20" maxIdle="10"
    validationQuery="select 1 from dual"
    defaultAutoCommit="false" maxWait="-1"/>

  <Parameter name="geonetwork.dir" value="C:\\ProgramData\\GeoNetwork\\Data" type="java.lang.String" override="false"/>
  <Environment name="ldap_password" value="LDAPPASSWORD" type="java.lang.String" override="false"/>

</Context>
```

*C:\Program Files\Apache Software Foundation\Tomcat 9.0\_Tomcat\conf\Catalina\localhost\geonetwork.xml*

NOTE: this isn't part of the WAR-Overlay - its the standard Tomcat context configuration.  
This is related to the `web.xml` file in the WAR

This can be used to set web parameters and environment variables.

# Settings

Settings

Need help

Schema-Specific Settings

ISO19139 HNAP Settings

Use Enhanced  
(MultiEntryCombiner)  
Organization Selector

☒

Org Select: Default top-level  
Organization Name (English)

City of David

Org Select: Default top-level  
Organization Name (French)

City of David

Save settings

Admin Page - Settings - Settings

```
[
  {
    "type": "BOOLEAN",
    "key": "schema/iso19139.ca.HNAP/UseGovernmentOfCanadaOrganisationName",
    "position": 1,
    "value": "true"
  },
  {
    "type": "STRING",
    "key": "schema/iso19139.ca.HNAP/DefaultMainOrganizationName_en",
    "position": 2,
    "value": "City of David"
  },
  {
    "type": "STRING",
    "key": "schema/iso19139.ca.HNAP/DefaultMainOrganizationName_fr",
    "position": 3,
    "value": "City of David"
  }
]
```

web/src/main/webapp/initialization/settings/settings.json

This can be used to create new settings (if they don't already exist in the DB) and to update their value.

# UISettings

Choose UI configuration

srv

▼

Add a new UI configuration

UI configuration identif

+

User interface

Need help

Filter settings

▼

e.g. INSPIRE

×

✕ Delete UI configuration

Save settings

Configure the search application. Define main options of the layout and modules of the search interface.

General options

☒ Humanize dates

For selected dates, if checked, show the date in human friendly format, for example "3 days ago". If not set, show the full date.

☒ Footer

☐ Show Social bar

Show the button bar with all the social buttons (facebook, twitter, etc.) in the footer of GeoNetwork

☒ Top toolbar

```
{
  "id": "srv",
  "configuration":"{.. very long JSON ... }"
}
```

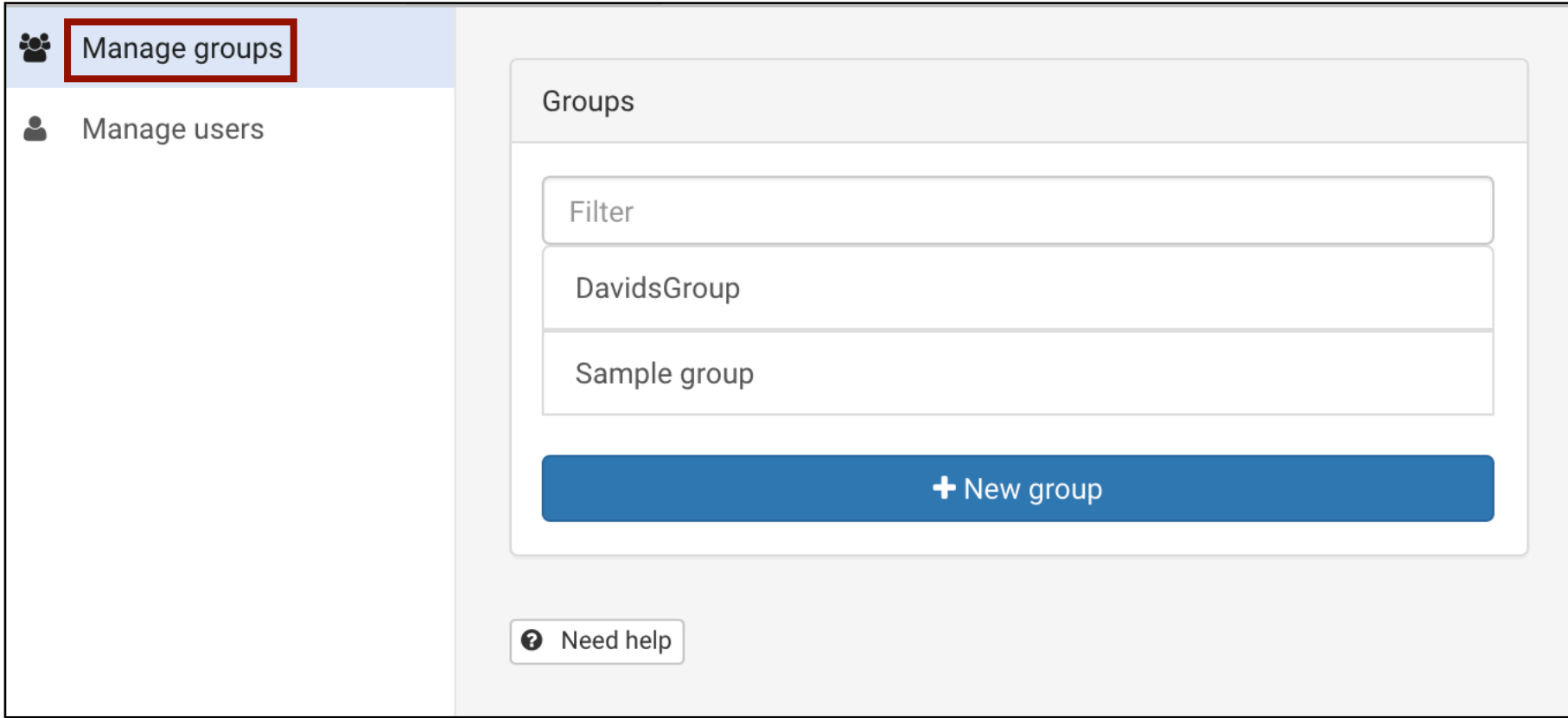
web/src/main/webapp/initialization/settings/uissettings.json

Admin Page - Settings - User Interface Settings

This can be used to create new ui settings (if they don't already exist in the DB) and to update its value.

NOTE: you can get this value by either looking in the DB or by watching the browser requests to/from the server.

# User Groups



*Admin Page - User and Groups - Manage Groups*

```
[
  {
    "name": "DavidsGroup",
    "description": "Group for everyone in the DaveVille",
    "email": "",
    "logo": "",
    "website": ""
  }
]
```

*web/src/main/webapp/initialization/settings/groups.json*

This is typically used for setting up security - precreating groups for users to belong to



# Thesauruses

Thesaurus

Filter

Branch (theme)

Business Functions (theme)

Canada/US States and Provinces (theme)

City of Hamilton Departments (theme)

Continents, countries, sea regions of the world. (place)

Countries (theme)

Directorate (theme)

GC Core Subject (theme)

GC Government Names (theme)

GC Open License (theme)

Previous

1 / 2

Next

+ Add thesaurus

Need help

GC Core Subject

Download

Delete

Title

GC Core Subject

Identifier

GC\_Core\_Subject.rdf

Thesaurus type

Theme

Namespace

http://www.thesaurus.gc.ca/#CoreSubjectThesaurus

Enable

In multinode mode, use this option to enable or disable a thesaurus for this node.

External thesauri are in read only mode.

Keywords

Filter keyword

Switch language...

Show 50 results

+ Add keyword

Abbreviations

URI: http://www.thesaurus.gc.ca/concept/#Abbreviations

Aboriginal affairs

URI: http://www.thesaurus.gc.ca/concept/#Aboriginal%20affairs

Aboriginal businesses

URI: http://www.thesaurus.gc.ca/concept/#Aboriginal%20businesses

Aboriginal culture

URI: http://www.thesaurus.gc.ca/concept/#Aboriginal%20culture

Aboriginal governments

```
[
  {
    "source": "initialization/settings/thesaurus/GC_Org_Names.rdf",
    "action": "overwrite",
    "destination": "external/thesauri/theme/GC_Org_Names.rdf"
  },
  {
    "source": "initialization/settings/thesaurus/GC_Departments.rdf",
    "action": "overwrite",
    "destination": "external/thesauri/theme/GC_Departments.rdf"
  }
]
```

web/src/main/webapp/initialization/settings/thesaurus/thesurus.json

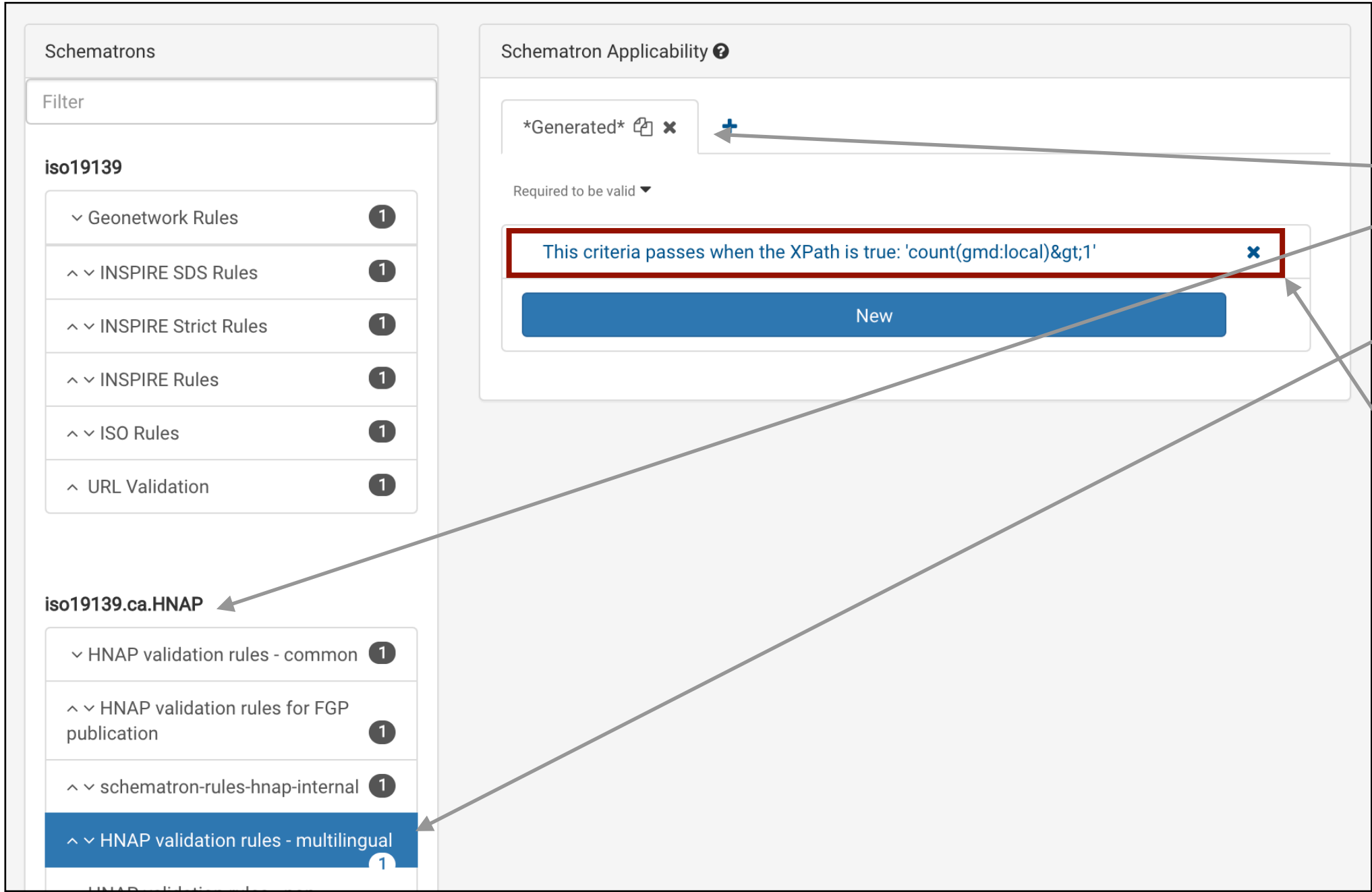
Source thesaurus files are in

web/src/main/webapp/initialization/settings/thesaurus/\*.rdf

Action can be;

- delete - delete an existing thesaurus (ie. remove schema-default thesaurus)
- overwrite - overwrite an existing thesaurus and replace its contents (ie. change contents of an existing thesaurus)
- createOnly - if the thesaurus doesn't exist, add it (i.e. create a new thesaurus, allow users to edit it)

# Schematron Criteria



*Admin Page - Metadata and Templates - Validation*

```
[
  {
    "schemaName": "iso19139.ca.HNAP",
    "schemaFileName": "schematron-rules-multilingual.xsl",
    "groupName": "*Generated*",

    "action": "DELETE",

    "type": "ALWAYS_ACCEPT",
    "value": "_ignored_",
    "uitype": "",
    "uivalue": ""
  },
  {
    "schemaName": "iso19139.ca.HNAP",
    "schemaFileName": "schematron-rules-multilingual.xsl",
    "groupName": "*Generated*",

    "action": "ADD",

    "type": "XPATH",
    "value": "count(gmd:local)>1",
    "uitype": "XPATH",
    "uivalue": "count(gmd:local)>1"
  }
]
```

*web/src/main/webapp/initialization/settings/schematron.json*

Action can be;

- DELETE - delete an existing Criteria
- ADD - create a new Criteria