

# Migrazione alla 4.6.X

## Prerequisiti

### Java

Java 8 o superiore.

### Application Server

#### Tomcat

1. <https://tomcat.apache.org/download-90.cgi>
2. <https://tomcat.apache.org/download-80.cgi>

Non sono supportate versioni 10+, basate su **jakarta**

#### Wildfly

1. wildfly 20.0.1.Final <https://www.wildfly.org/downloads/>

### Database

#### Oracle

Geoweb 4.6.0 utilizza il driver oracle **ojdbc8 v 21.5.0.0**.

In base alla matrice di compatibilità ufficiale, per utilizzare questa versione di Geoweb è necessario assicurarsi che la versione del database sia **'12.2 or 12cR2' o superiore**.

Matrice di compatibilità [qui](#)

#### Postgre

Geoweb 4.6.0 utilizza il driver **postgresql v 42.6.0**. In base alla matrice di compatibilità ufficiale, per utilizzare questa versione di Geoweb è necessario assicurarsi che la versione del database sia **"PostgreSQL 8.2 or newer"**.

Matrice di compatibilità [qui](#).

## MsSqlServer

Geoweb 4.6.0 utilizza il driver **mssql-jdbc v 12.2.0.jre8**.

In base alla matrice di compatibilità ufficiale, per utilizzare questa versione di Geoweb è necessario assicurarsi che la versione del database sia **SQL Server 2014**.

Matrice di compatibilità [qui](#)

## MongoDB

La minima versione testata è **MongoDB 4.2**. In caso contrario l'applicativo segnalerà un errore del tipo:

```
....ERROR .... - Server at 127.0.0.1:27017 reports wire version 4, but this version of the driver requires at least 6 (MongoDB 3.6).
```

## Alfresco

I vecchi componenti CMIS continuano a lavorare, come prima, con **Alfresco 5**. I nuovi componenti CMS, necessitano di **Alfresco 7**.

## SharePoint

## Passaggi da seguire

- Creare un repository ex-novo ex-novo o modificare quello esistente intervenendo su tutti i file necessari come descritto nella parte [Migrazione repository](#)
- Apportare le opportune modifiche nello schema dei metadati, come descritto nella parte [Migrazione metadati](#)
- leggere le [Note Migrazione](#)

## Migrazione repository

### Repository git nuovi

I nuovi repository git, di progetto o di commessa, dovrebbero utilizzare fin da subito il nuovo template di progetto **gw-webapp-template**. La prima cosa da fare per creare un progetto di base nel proprio pc cliccare sul seguente link e avviare il download della cartella ZIP

makegproj-4.6.x.zip

## Repository git preesistenti

Per tutti i progetti git in corso:

- va adeguato il [pom.xml](#).
- vanno sostituiti specifici file nel vecchio template di progetto. file interessati:
  - [spring-security.xml](#)
  - [dispatcher-servlet.xml](#)
  - [web.xml](#)
  - [configuration.properties](#)
  - [log4j.properties](#), sostituito da [log4j2.properties](#)

Questi file potrebbero comunque necessitare di ulteriori integrazioni dovute a personalizzazioni a suo tempo seguite sul cliente.

### Note

`log4j.properties` va proprio eliminato. Se configurato male può causare la non partenza del server, con errore sul log standard error del server.

```
log4j:ERROR Could not find value for key log4j.appender.access
log4j:ERROR Could not instantiate appender named "access".
```

### **pom.xml**

Per le versioni 4.6.X è stato creato un apposito template **gw-webapp-template 1.0.0**, che sostituisce il vecchio template **gw-webapp-template 1.0.0**. Il template va generato tramite

```
makegproj-4.6.x.zip
```

Al contempo sono state fatti vari refactor di vario genere sui maven module del framework:

- refactor nome dei moduli
  - tutti i moduli ora partono per 'gw-'
  - tutti name in minuscolo
  - key-word staccate con '-'
  - niente parole ridondanti nei name dei moduli maven: *plugin*, *service*, *utils*
- *artifactId* (non il *groupId*) del pom generale *geowebframework* passa da `<artifactId>com.geowebframework</artifactId>` a `<artifactId>geowebframework</artifactId>` (interessa solo gli sviluppatori che devono generare nuovi maven plugin)
- moduli integrati nel repository git di *geowebframework*
- moduli tirati fuori dal repository git di *geowebframework*, in quanto di prodotto/commessa

Per i progetti preesistenti modificare il `pom.xml` utilizzando i nuovi *artifactId*, e lasciando inalterato il *groupId*.

## Tabella riepilogativa

NOME MODULO MAVEN (artifactId)		spostato da git geowebframework	MOVED/DELETED	Deprecated	NOTE
VECCHIO	NUOVO				
calendar	gw-advanced				
cde	gw-cde	SI	(git CDE)		specifico CDE, da spostare su repo di prodotto
classificationplugin	gw-classification				
gwApproval	gw-approvals				
furnitureplugin	gw-furnitures	SI	(git SPACE)		specifico SPACE, da spostare su repo di prodotto
googleStreetView	gw-google-street-view				
dataservice	gw-data				
-	gw-cms				versione 1.0.0. Aggiunto per ospitare i servizi cms rest
gwCsvConnector	gw-csv-connector		MOVED		integrato in git geowebframework, versionamento corrente 2.0.0
gwindex	gw-index			SI	pagine di accesso specifiche per il cde, da spostare su repo di prodotto
gwMnemonicCode	gw-mnemonic-code				
gwProvisioning	gw-provisioning				usato solo da Università Padova, ma generale (provisioning dei loro utenti, copiati sul nostro DB)
gwRabbitApi	gw-rabbit-api				
gwRabbitConsumer	gw-rabbit-consumer				
gwRabbitPublisher	gw-rabbit-publisher				
gwScenari	gw-scenarios				
gwXktVisualizer	gw-xkt-visualizer				
hierarchicalFilterMenu			MOVED		integrato in git geowebframework, ora senza versionamento specifico
indexPortal	gw-index-portal			SI	pagine di accesso specifiche per vecchie commesse
keycloak-userspi	gw-keycloak-userspi				intesa Cloud, rimane in comune per ora ma non più usato con il nuovo KEYCLOACK
metadataservice	gw-metadata				
portalApi	gw-portal-api			SI	
portalObjects	gw-portal-commons			SI	

NOME MODULO MAVEN (artifactId)		spostato da git geowebframework	MOVED/DELETED	Deprecated	NOTE
VECCHIO	NUOVO				
printMapFlow	-		MOVED		usato solo in SPACE (Intesa) per ora, ma di carattere generale: accorpato in gw-print-map-legend, senza versionamento sprcifico
printMapLegend	gw-print-map-legend				
restapi	gw-rest-api	SI			rimosse chiamate del modulo EQUIPMENT (@Deprecated), tenuto per spostare servizi interoperabilità
smartplatformplugin	gw-smartplatform	SI	MOVED	SI	widget (indicatori in mappa auto aggiornanti, serie storiche, etc..) e funzionalità per integrazione dati sensori provenienti dalla smartplatform
thematism	gw-thematism				
ThreeDVisualizer	gw-3d-visualizer				
transfer-objects	gw-commons + gw-commons-web				splittato in due moduli gw-commons + gw-commons-web
umplugin	gw-upload-manager				
webadmin	gw-webadmin				
webclient	gw-webclient				
workflowservice	gw-workflow				
xeokitUtils	gw-xeokit	SI	DELETED	SI	cancellato, mai usato nel CDE (sostituito da rabbit-consumer)
webclientTemplate	gw-webapp-template				nuovo template 1.0.0

excel censimento moduli:

<https://docs.google.com/spreadsheets/d/1kqvL8uERY4FJDFaPrI44kl7L1QYpds4pR55I1MhUGv8/edit#gid=0>

### Esempi

Esempio 1:

```
<dependency>
  <groupId>com.geowebframework</groupId>
  <artifactId>calendar</artifactId>
  <version>${com.geowebframework.version}</version>
</dependency>
...
<dependency>
  <groupId>com.geowebframework</groupId>
```

```
<artifactId>ThreeDVisualizer</artifactId>
  <version>${com.geowebframework.version}</version>
</dependency>
...
<dependency>
  <groupId>com.geowebframework</groupId>
  <artifactId>umplugin</artifactId>
  <version>${com.geowebframework.version}</version>
</dependency>
```

diventa:

```
<dependency>
  <groupId>com.geowebframework</groupId>
  <artifactId>gw-advanced</artifactId>
  <version>${com.geowebframework.version}</version>
</dependency>
...
<dependency>
  <groupId>com.geowebframework</groupId>
  <artifactId>gw-3d-visualizer</artifactId>
  <version>${com.geowebframework.version}</version>
</dependency>
...
<dependency>
  <groupId>com.geowebframework</groupId>
  <artifactId>gw-upload-manager</artifactId>
  <version>${com.geowebframework.version}</version>
</dependency>
```

Esempio 2, da rimuovere:

```
<dependency>
  <groupId>com.geowebframework</groupId>
  <artifactId>printMapFlow</artifactId>
  <version>${com.geowebframework.version}</version>
</dependency>
...
<dependency>
  <groupId>com.geowebframework</groupId>
  <artifactId>hierarchicalFilterMenu</artifactId>
  <version>${com.geowebframework.version}</version>
</dependency>
```

## spring-security.xml

Localizzazione: *WEB-INF/spring-security.xml*

Nel nuovo template di progetto **gw-webapp-template**, sono resi disponibili i seguenti template di *spring-security\*.xml*:

- [spring-security.xml-base](#) - NO KEYCLOAK
- [spring-security-keycloak.xml](#) - KEYCLOAK
- [spring-security-deprecated.xml](#) - NO KEYCLOAK, ma con altri tag http, meccanismi di autenticazione, ora deprecati, o di uso particolare:

- `<http pattern="/oauth/*"`

usati dalle app e servizi rest, legati alla parte oauth2

- `<http pattern="/services/**"`

usati dalle app e servizi rest, legati alla parte oauth2

- preAuthFilter

```
<beans:bean id="preAuthFilter"
```

- preAuthAuthenticationProviderExt

```
<beans:bean id="preAuthAuthenticationProviderExt"
```

- oauth2

```
<beans:bean id="oauthAuthenticationEntryPoint"  
class="org.springframework.security.oauth2.provider.error.OAuth2Auth  
enticationEntryPoint">
```

- LDAP

```
<beans:bean id="adAuthenticationProvider"  
class="org.springframework.security.ldap.authentication.ad.ActiveD  
irectoryLdapAuthenticationProvider">
```

## Quando usare uno specifico template

- [spring-security.xml](#) Nei casi **dove c'è un ID (Identity Provider)** esterno o comunque messo a disposizione dal cliente (i cui *bean* di configurazione dovranno eventualmente essere integrati)
- [spring-security-keycloak.xml](#) Nei casi **dove non c'è un ID (Identity Provider)** del cliente, o nei nostri ambienti interni, dove l'ID scelto è per l'appunto *keycloak*
- [spring-security-deprecated.xml](#) **MAI**, usarlo solo come riferimento per integrare negli altri due template solo la parte eventualmente necessaria

## spring-security-base.xml

[spring-security.xml](#)

```
<?xml version="1.0" encoding="UTF-8"?>
<beans:beans
  xmlns="http://www.springframework.org/schema/security"
  xmlns:beans="http://www.springframework.org/schema/beans"
  xmlns:context="http://www.springframework.org/schema/context"
  xmlns:oauth="http://www.springframework.org/schema/security/oauth2"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="
    http://www.springframework.org/schema/security
    http://www.springframework.org/schema/security/spring-security.xsd
    http://www.springframework.org/schema/beans
    http://www.springframework.org/schema/beans/spring-beans.xsd
    http://www.springframework.org/schema/context
    http://www.springframework.org/schema/context/spring-context.xsd
    http://www.springframework.org/schema/security/oauth2
    http://www.springframework.org/schema/security/spring-security-oauth2.x
    sd
    "
  >

  <context:component-scan base-
package="com.geowebframework.webclient.security" />

  <beans:import resource="classpath:metadata-config-spring-
security.xml" />

  <beans:import resource="classpath*:META-INF/*.beandef-security.xml"
/>

  <beans:bean id="messageSource"
class="com.geowebframework.metadataservice.messagesource.GwReloadableRe
sourceBundleMessageSource">
    <beans:property name="basenames">
      <beans:list>
        <beans:value>classpath*:locale/messages*</beans:value>
<!-- load all .properties files contained under folder locale, which
name starts with 'messages'. Works even for plug-in -->
      </beans:list>
    </beans:property>
    <beans:property name="defaultEncoding" value="UTF-8"/>
    <beans:property name="useCodeAsDefaultMessage"
value="false"/><!-- Set whether to use the message code as default
message instead of throwing a NoSuchMessageException. Useful for
development and debugging. Default is "false". -->
  </beans:bean>

  <!-- PropertyPlaceholderConfigurer still needed here,
GwPropertyPlaceholderConfigurer not used -->
  <beans:bean
```



```

class="org.springframework.beans.factory.config.PropertyPlaceholderConf
igurer">
    <beans:property name="locations"
value="classpath:configuration.properties"/>
    </beans:bean>

    <!-- Add disable-url-rewriting set to true to prevent URL rewriting
of jsessionId -->
    <http auto-config="true" use-expressions="true" disable-url-
rewriting="true">
        <csrf request-matcher-ref="csrfMatcher"/>

        <!--
        issue #589 set response header to prevent clickjacking attacks
        it solves browser console error:
        Refused to display 'http://localhost:8081/' in a frame
because it set 'X-Frame-Options' to 'deny'.
        -->
        <headers>
            <frame-options policy="SAMEORIGIN" />
            <header name="X-Content-Security-Policy" value="default-src
inline-script eval-script; frame-ancestors 'self'"/>
            <hsts include-subdomains="true" max-age-seconds="31536000"
/>
        </headers>

        <!-- IMPORTANT -->
        <!-- Patterns are always evaluated in the order they are
defined. Thus it is important that more specific patterns are defined
higher in the list than less specific patterns. -->

        <intercept-url pattern="/login*" access="permitAll" /> <!--
cover also 'loginPage' -->
        <intercept-url pattern="/forgotPassword*" access="permitAll" />
        <intercept-url pattern="/resetPassword*" access="permitAll" />
        <intercept-url pattern="/forceChangePassword*"
access="permitAll" />
        <intercept-url pattern="/accessdenied*" access="permitAll" />
        <intercept-url pattern="/emptyMetadataCache" access="permitAll"
/>
        <intercept-url pattern="/emptyClassificationCache"
access="permitAll" />
        <intercept-url pattern="/emptyMnemonicCodeCache"
access="permitAll" />
        <intercept-url pattern="/livenessProbe" access="permitAll" />
        <!-- kubernetes support -->
        <intercept-url pattern="/readinessProbe" access="permitAll" />
        <!-- kubernetes support -->

        <!-- set permitAll for all used resources inside login pages -

```

```
->
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/debug/dojo/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/debug/dijit/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/debug/dojox/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/compressed/dojo/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/compressed/dijit/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/compressed/dojox/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/css/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/icons/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/fontawesome/**" access="permitAll" /> <!-- issue #509 -->
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/images/favicon.png" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/images/${images.login.form.logo:gw4_enterprise.png}"
access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/${images.IndexBackground:IndexBackground.jpg}"
access="permitAll" />

    <!-- for all other resources should to be isAuthenticated() or
isAnonymous() -->
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/**" access="isAuthenticated()" />

    <intercept-url pattern="/index*" access="isAuthenticated()" />

    <!-- @@@ANONYMOUS_USER@@@ -->
```

```

    <!--
      -to enable anonymous access: comment 1 and decomment 2
      write the right group name inside 'anonymous' tag, in
'granted-authority' attribute
      (if omitted, the default role is ROLE_ANONYMOUS)
    -->
    <!--1-->
    <intercept-url pattern="/**" access="isAuthenticated()" />
    <!--2
    <intercept-url pattern="/**" access="isAuthenticated() or
isAnonymous()" />
    <anonymous username="" granted-authority="ROLE_ANONYMOUS" />-->

    <!--
      defaults tag attributes:
      password-parameter="password"
      username-parameter="username"
      login-processing-url="login"
    -->
    <form-login
      login-page="/loginPage.html"
      default-target-url="/index.html"
      authentication-failure-handler-
ref="gwAuthenticationFailureHandler"

    />
    <!--
      alternative to authentication-failure-handler-ref:
      authentication-failure-url="/loginPage.html?error" />
    -->

    <!--STANDARD OR CUSTOM LOGOUT, decomment the one to be used-->

    <!--STANDARD LOGOUT-->
    <!--choose one between-->
    <!--<logout invalidate-session="true" logout-url="/gwlogout"
logout-success-url="/" />-->
    <!--<logout invalidate-session="true" logout-url="/gwlogout"
logout-success-url="/loginPage.html?logout" />-->
    <logout invalidate-session="true" logout-url="/gwlogout"
logout-success-url="/loginPage.html?logout" />

    <!--CUSTOM LOGOUT-->
    <!--
    <logout success-handler-ref="customLogoutSuccessHandler" />
    -->
</http>

<!--CUSTOM LOGOUT-->
<!--

```

```
<beans:bean id="customLogoutSuccessHandler"
class="com.geowebframework.webclient.controller.CustomLogoutSuccessHand
ler" />
-->

<beans:bean id="csrfMatcher"
class="org.springframework.security.web.util.matcher.OrRequestMatcher">
<beans:constructor-arg>
<beans:list value-
type="org.springframework.security.web.util.matcher.RequestMatcher">
<beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
<beans:constructor-arg name="pattern"
value="login*" />
<beans:constructor-arg name="httpMethod"
value="POST" />
</beans:bean>
<beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
<beans:constructor-arg name="pattern"
value="/rest/*/groovyAction/generic/**" />
<beans:constructor-arg name="httpMethod"
value="POST" />
</beans:bean>
<beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
<beans:constructor-arg name="pattern"
value="/rest/*/groovyAction/detail/**" />
<beans:constructor-arg name="httpMethod"
value="POST" />
</beans:bean>
<beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
<beans:constructor-arg name="pattern"
value="/rest/*/groovyAction/list/**" />
<beans:constructor-arg name="httpMethod"
value="POST" />
</beans:bean>
<beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
<beans:constructor-arg name="pattern"
value="/rest/editDetail/*/insertDetail**" />
<beans:constructor-arg name="httpMethod"
value="POST" />
```

```
        </beans:bean>
        <beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
            <beans:constructor-arg name="pattern"
value="/rest/editDetail/*/updateDetail**"/>
            <beans:constructor-arg name="httpMethod"
value="POST"/>
        </beans:bean>
        <beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
            <beans:constructor-arg name="pattern"
value="/rest/editDetail/*/deleteDetail**"/>
            <beans:constructor-arg name="httpMethod"
value="POST"/>
        </beans:bean>
        <beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
            <beans:constructor-arg name="pattern"
value="/rest/saveAllMultipleGeometryEdit**"/>
            <beans:constructor-arg name="httpMethod"
value="POST"/>
        </beans:bean>
    </beans:list>
</beans:constructor-arg>
</beans:bean>

    <beans:bean id="filterMultipartResolver"
class="org.springframework.web.multipart.commons.CommonsMultipartResolv
er">
        <beans:property name="maxUploadSize"
value="{commonsMultipartResolver.maxUploadSize:209715200}" />
    </beans:bean>

    <beans:bean id="userLoginLogger"
class="com.geowebframework.webclient.security.LogFileLogger"/>
    <beans:bean id="authenticationSuccessEventListener"
class="com.geowebframework.webclient.security.AuthenticationSuccessEven
tListener">
        <beans:constructor-arg ref = "userLoginLogger"/>
    </beans:bean>

    <beans:bean id="gwAuthenticationFailureHandler"
class="com.geowebframework.webclient.security.GwAuthenticationFailureHa
ndler"/>

    <beans:bean id="metadataSource"
```

```
class="org.apache.commons.dbcp.BasicDataSource"
    destroy-method="close">
    <beans:property name="driverClassName"
value="{jdbcmetadata.driverClassName}" />
    <beans:property name="url" value="{jdbcmetadata.url}" />
    <beans:property name="username"
value="{jdbcmetadata.username}" />
    <beans:property name="password"
value="{jdbcmetadata.password}" />
    <beans:property name="maxActive" value="2" />
    <beans:property name="minIdle" value="1" />
    <beans:property name="maxIdle" value="2" />
    <beans:property name="validationQuery"
value="{jdbcmetadata.validationQuery}"/>
</beans:bean>

<beans:bean id="metadataSqlSessionFactory"
class="org.mybatis.spring.SqlSessionFactoryBean">
    <beans:property name="dataSource" ref="metadataSource" />
    <beans:property name="configLocation" value="classpath:mybatis-
config.xml" />
</beans:bean>

<beans:bean id="customUserDetailsService"
class="com.geowebframework.webclient.security.CustomUserDetailsService"
>
    <beans:property name="usersByUsernameQuery" value="select *
from GWM_USERS where username = ?"/>
    <beans:property name="authoritiesByUsernameQuery" value="select
GWM_USER_GROUPS.*, usergroup as authority from GWM_USER_GROUPS where
username =?" />
    <beans:property name="dataSource">
        <beans:ref bean="metadataSource"></beans:ref>
    </beans:property>
</beans:bean>

<beans:bean id="gwUserDetailsDao"
class="com.geowebframework.webclient.security.GwUserDetailsDaoImpl"
></beans:bean>

<beans:bean id="limitLoginAuthenticationProvider"
class="com.geowebframework.webclient.security.LimitLoginAuthenticatio
nProvider">
    <beans:property name="userDetailsService"
ref="customUserDetailsService" />
    <beans:property name="passwordEncoder" ref="passwordEncoder" />
</beans:bean>
```

```

    <authentication-manager alias="authenticationManager">
        <authentication-provider
ref="limitLoginAuthenticationProvider"></authentication-provider>
    </authentication-manager>
</beans:beans>

```

## spring-security-keycloak.xml

### spring-security-keycloak.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<beans:beans
  xmlns="http://www.springframework.org/schema/security"
  xmlns:beans="http://www.springframework.org/schema/beans"
  xmlns:context="http://www.springframework.org/schema/context"
  xmlns:oauth="http://www.springframework.org/schema/security/oauth2"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="
    http://www.springframework.org/schema/security
http://www.springframework.org/schema/security/spring-security.xsd
    http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
    http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd
    http://www.springframework.org/schema/security/oauth2
http://www.springframework.org/schema/security/spring-security-oauth2.x
sd
"
>

  <context:component-scan base-
package="com.geowebframework.webclient.security" />

  <beans:import resource="classpath:metadata-config-spring-
security.xml" />

  <beans:import resource="classpath*:META-INF/*.beandef-security.xml"
/>

  <beans:bean id="messageSource"
class="com.geowebframework.metadataservice.messagesource.GwReloadableRe
sourceBundleMessageSource">
    <beans:property name="basenames">
      <beans:list>
        <beans:value>classpath*:locale/messages*</beans:value>

```

```
<!-- load all .properties files contained under folder locale, which
name starts with 'messages'. Works even for plug-in -->
    </beans:list>
    </beans:property>
    <beans:property name="defaultEncoding" value="UTF-8"/>
    <beans:property name="useCodeAsDefaultMessage"
value="false"/><!-- Set whether to use the message code as default
message instead of throwing a NoSuchMessageException. Useful for
development and debugging. Default is "false". -->
    </beans:bean>

    <!-- @@@KEYCLOAK@@@ STARTS -->
    <beans:bean id="adapterDeploymentContext"
class="org.keycloak.adapters.springsecurity.AdapterDeploymentContextFac
toryBean">
        <beans:constructor-arg value="/WEB-INF/keycloak.json" />
    </beans:bean>

    <beans:bean id="keycloakAuthenticationEntryPoint"
class="org.keycloak.adapters.springsecurity.authentication.KeycloakAuth
enticationEntryPoint">
        <beans:constructor-arg name="adapterDeploymentContext"
ref="adapterDeploymentContext" />
    </beans:bean>

    <beans:bean id="gwKeycloakAuthenticationProvider"
class="com.geowebframework.keycloak.authentication.GwKeycloakAuthentica
tionProvider" >
        <beans:constructor-arg name="gwKeycloakUserDetailsService"
ref="gwKeycloakUserDetailsService" />
    </beans:bean>

    <beans:bean id="gwKeycloakUserDetailsService"
class="com.geowebframework.keycloak.userdetails.GwKeycloakUserDetailsSe
rvice">
        <beans:property name="dataSource">
            <beans:ref bean="metadataSource"></beans:ref>
        </beans:property>
    </beans:bean>

    <beans:bean id="httpSessionManager"
class="org.keycloak.adapters.springsecurity.management.HttpSessionManag
er" />
    <beans:bean id="keycloakPreAuthActionsFilter"
class="org.keycloak.adapters.springsecurity.filter.KeycloakPreAuthActio
nsFilter" >
        <beans:constructor-arg ref="httpSessionManager"/>
    </beans:bean>
```



```

    <beans:bean id="keycloakAuthenticationProcessingFilter"
class="org.keycloak.adapters.springsecurity.filter.KeycloakAuthenticati
onProcessingFilter">
    <beans:constructor-arg name="authenticationManager"
ref="authenticationManager" />
    </beans:bean>

    <beans:bean id="keycloakLogoutHandler"
class="org.keycloak.adapters.springsecurity.authentication.KeycloakLogo
utHandler">
    <beans:constructor-arg ref="adapterDeploymentContext" />
    </beans:bean>

    <beans:bean id="logoutFilter"
class="org.springframework.security.web.authentication.logout.LogoutFil
ter">
    <beans:constructor-arg name="logoutSuccessUrl" value="/" />
    <beans:constructor-arg name="handlers">
    <beans:list>
    <beans:ref bean="keycloakLogoutHandler" />
    <beans:bean
class="org.springframework.security.web.authentication.logout.SecurityC
ontextLogoutHandler" />
    </beans:list>
    </beans:constructor-arg>
    <beans:property name="logoutRequestMatcher">
    <beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
    <beans:constructor-arg name="pattern"
value="/gwlogout**" />
    <beans:constructor-arg name="httpMethod" value="POST"
/>
    </beans:bean>
    </beans:property>
    </beans:bean>
<!-- @@@KEYCLOAK@@@ ENDS -->

    <!-- Add disable-url-rewriting set to true to prevent URL rewriting
of jsessionid -->
    <http auto-config="false" use-expressions="true" disable-url-
rewriting="true" entry-point-ref="keycloakAuthenticationEntryPoint">
    <csrf disabled="true"/>
    <!-- <csrf request-matcher-ref="csrfMatcher"/> -->

    <!--
    issue #589 set response header to prevent clickjacking attacks
it solves browser console error:
    Refused to display 'http://localhost:8081/' in a frame
because it set 'X-Frame-Options' to 'deny'.

```

```
-->
    <headers>
        <frame-options policy="SAMEORIGIN" />
        <header name="X-Content-Security-Policy" value="default-src
inline-script eval-script; frame-ancestors 'self'"/>
        <hsts include-subdomains="true" max-age-seconds="31536000"
/>
    </headers>

    <!-- @@@KEYCLOAK@@@ -->
    <custom-filter ref="keycloakPreAuthActionsFilter"
before="LOGOUT_FILTER" />
    <custom-filter ref="keycloakAuthenticationProcessingFilter"
before="FORM_LOGIN_FILTER" />

    <!-- IMPORTANT -->
    <!-- Patterns are always evaluated in the order they are
defined. Thus it is important that more specific patterns are defined
higher in the list than less specific patterns. -->

    <intercept-url pattern="/login*" access="permitAll" /> <!--
cover also 'loginPage' -->
    <intercept-url pattern="/forgotPassword*" access="permitAll" />
    <intercept-url pattern="/resetPassword*" access="permitAll" />
    <intercept-url pattern="/forceChangePassword*"
access="permitAll" />
    <intercept-url pattern="/accessdenied*" access="permitAll" />
    <intercept-url pattern="/emptyMetadataCache" access="permitAll"
/>

    <intercept-url pattern="/emptyClassificationCache"
access="permitAll" />
    <intercept-url pattern="/emptyMnemonicCodeCache"
access="permitAll" />
    <intercept-url pattern="/livenessProbe" access="permitAll" />
    <!-- kubernetes support -->
    <intercept-url pattern="/readinessProbe" access="permitAll" />
    <!-- kubernetes support -->

    <!-- set permitAll for all used resources inside login pages -
->
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/debug/dojo/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/debug/dijit/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/debug/dojox/**" access="permitAll" />
```

```

    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/compressed/dojo/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/compressed/dijit/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/compressed/dojox/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/css/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/icons/**" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/fontawesome/**" access="permitAll" /> <!-- issue #509 -->
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/images/favicon.png" access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/images/${images.login.form.logo:gw4_enterprise.png}"
access="permitAll" />
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/${images.IndexBackground:IndexBackground.jpg}"
access="permitAll" />

    <!-- for all other resources should to be isAuthenticated() or
isAnonymous() -->
    <intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevis
ion() }/**" access="isAuthenticated()" />

    <intercept-url pattern="/index*" access="isAuthenticated()" />

    <!-- @@@ANONYMOUS_USER@@@ -->
    <!--
    -to enable anonymous access: comment 1 and decomment 2
    write the right group name inside 'anonymous' tag, in
'granted-authority' attribute
    (if omitted, the default role is ROLE_ANONYMOUS)
-->
    <!--1-->
    <intercept-url pattern="/**" access="isAuthenticated()" />
    <!--2
    <intercept-url pattern="/**" access="isAuthenticated() or
isAnonymous()" />
    <anonymous username="" granted-authority="ROLE_ANONYMOUS" />-->

```

```
<!-- @@@KEYCLOAK@@@ -->
<custom-filter ref="logoutFilter" position="LOGOUT_FILTER" />

</http>

<beans:bean id="csrfMatcher"
class="org.springframework.security.web.util.matcher.OrRequestMatcher">
  <beans:constructor-arg>
    <beans:list value-
type="org.springframework.security.web.util.matcher.RequestMatcher">
      <beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
        <beans:constructor-arg name="pattern"
value="login*" />
        <beans:constructor-arg name="httpMethod"
value="POST" />
      </beans:bean>
      <beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
        <beans:constructor-arg name="pattern"
value="/rest/*/groovyAction/generic/**" />
        <beans:constructor-arg name="httpMethod"
value="POST" />
      </beans:bean>
      <beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
        <beans:constructor-arg name="pattern"
value="/rest/*/groovyAction/detail/**" />
        <beans:constructor-arg name="httpMethod"
value="POST" />
      </beans:bean>
      <beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
        <beans:constructor-arg name="pattern"
value="/rest/*/groovyAction/list/**" />
        <beans:constructor-arg name="httpMethod"
value="POST" />
      </beans:bean>
      <beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
        <beans:constructor-arg name="pattern"
value="/rest/editDetail/*/insertDetail**" />
        <beans:constructor-arg name="httpMethod"
```

```

value="POST"/>
        </beans:bean>
        <beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
            <beans:constructor-arg name="pattern"
value="/rest/editDetail/*/updateDetail**"/>
            <beans:constructor-arg name="httpMethod"
value="POST"/>
        </beans:bean>
        <beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
            <beans:constructor-arg name="pattern"
value="/rest/editDetail/*/deleteDetail**"/>
            <beans:constructor-arg name="httpMethod"
value="POST"/>
        </beans:bean>
        <beans:bean
class="org.springframework.security.web.util.matcher.AntPathRequestMatc
her">
            <beans:constructor-arg name="pattern"
value="/rest/saveAllMultipleGeometryEdit**"/>
            <beans:constructor-arg name="httpMethod"
value="POST"/>
        </beans:bean>
    </beans:list>
</beans:constructor-arg>
</beans:bean>

    <beans:bean id="filterMultipartResolver"
class="org.springframework.web.multipart.commons.CommonsMultipartResolv
er">
        <beans:property name="maxUploadSize"
value="{commonsMultipartResolver.maxUploadSize:209715200}" />
    </beans:bean>

    <!-- TODO TEST -->
    <beans:bean id="userLoginLogger"
class="com.geowebframework.webclient.security.LogFileLogger"/>
    <beans:bean id="authenticationSuccessEventListener"
class="com.geowebframework.webclient.security.AuthenticationSuccessEven
tListener">
        <beans:constructor-arg ref = "userLoginLogger"/>
    </beans:bean>
    <!-- TODO TEST -->
    <beans:bean id="gwAuthenticationFailureHandler"
class="com.geowebframework.webclient.security.GwAuthenticationFailureHa
ndler"/>

```

```
<beans:bean id="metadataSource"
class="org.apache.commons.dbcp.BasicDataSource"
destroy-method="close">
  <beans:property name="driverClassName"
value="{jdbcmetadata.driverClassName}" />
  <beans:property name="url" value="{jdbcmetadata.url}" />
  <beans:property name="username"
value="{jdbcmetadata.username}" />
  <beans:property name="password"
value="{jdbcmetadata.password}" />
  <beans:property name="maxActive" value="2" />
  <beans:property name="minIdle" value="1" />
  <beans:property name="maxIdle" value="2" />
  <beans:property name="validationQuery"
value="{jdbcmetadata.validationQuery}" />
</beans:bean>

<beans:bean id="metadataSqlSessionFactory"
class="org.mybatis.spring.SqlSessionFactoryBean">
  <beans:property name="dataSource" ref="metadataSource" />
  <beans:property name="configLocation" value="classpath:mybatis-
config.xml" />
</beans:bean>

<authentication-manager alias="authenticationManager">

  <!-- @@@KEYCLOAK@@@ -->
  <authentication-provider ref="gwKeycloakAuthenticationProvider"
/>

</authentication-manager>

</beans:beans>
```

## Modifiche

E' stato modificato il blocco

```
<http auto-config="true" use-expressions="true" disable-url-
rewriting="true">...</http>
```

in particolare sono stati aggiunte le parti:

```
...
<intercept-url pattern="/livenessProbe" access="permitAll" />
<intercept-url pattern="/readinessProbe" access="permitAll" />
```

```

..
<intercept-url pattern="/resources/#{
T(com.geowebframework.metadataservice.registry.GwReleaseInfos).getRevision()
}/fontawesome/**" access="permitAll" /> <!-- issue #509 -->

```

e modificate queste:

```

<!--
  password-parameter="password"
  username-parameter="username"
  login-processing-url="login"
-->
<form-login
  login-page="/loginPage.html"
  default-target-url="/index.html"
  authentication-failure-handler-
ref="gwAuthenticationFailureHandler"

/>
<!-- authentication-failure-url="/loginPage.html?error" /> -->

<!--STANDARD OR CUSTOM LOGOUT, decomment the one to be used-->
<!--STANDARD LOGOUT-->
<!--<logout logout-success-url="/" /> or <logout logout-success-
url="/loginPage.html?logout" />-->
<logout
  invalidate-session="true"
  logout-url="/gwlogout"
  logout-success-url="/loginPage.html?logout"
/>
<!--CUSTOM LOGOUT-->
<!--
<logout success-handler-ref="customLogoutSuccessHandler" />
-->

```

Sono stati inoltre rimossi bean ora conservati in **spring-security-deprecated.xml**

## dispatcher-servlet.xml

Localizzazione: *WEB-INF/dispatcher-servlet.xml*

dispatcher-servlet.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<beans
  xmlns="http://www.springframework.org/schema/beans"

```

```

    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:mvc="http://www.springframework.org/schema/mvc"
    xmlns:context="http://www.springframework.org/schema/context"
    xmlns:mybatis="http://mybatis.org/schema/mybatis-spring"
    xmlns:util="http://www.springframework.org/schema/util"
    xmlns:aop="http://www.springframework.org/schema/aop"
    xmlns:task="http://www.springframework.org/schema/task"
    xmlns:ehcache="http://ehcache-spring-annotations.googlecode.com/svn/schema/ehcache-spring"
    xmlns:mongo="http://www.springframework.org/schema/data/mongo"
    xsi:schemaLocation="
        http://www.springframework.org/schema/mvc
http://www.springframework.org/schema/mvc/spring-mvc.xsd
        http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
        http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd
        http://mybatis.org/schema/mybatis-spring
http://mybatis.org/schema/mybatis-spring.xsd
        http://www.springframework.org/schema/util
http://www.springframework.org/schema/util/spring-util.xsd
        http://www.springframework.org/schema/aop
http://www.springframework.org/schema/aop/spring-aop.xsd
        http://www.springframework.org/schema/task
http://www.springframework.org/schema/task/spring-task.xsd
        http://ehcache-spring-annotations.googlecode.com/svn/schema/ehcache-spring
http://ehcache-spring-annotations.googlecode.com/svn/schema/ehcache-spring/ehcache-spring-1.1.xsd
        http://www.springframework.org/schema/data/mongo
http://www.springframework.org/schema/data/mongo/spring-mongo.xsd
    "
>
    <context:component-scan base-package="com.geowebframework" />

    <!-- Convention: automatically including all resources declared
    under the folder META-INF/ inside files with '.beandef.xml' extension
    -->
    <import resource="classpath*:META-INF/*.beandef.xml" />

    <!-- METADATASOURCE -->
    <bean id="metadataSource"
class="org.apache.commons.dbcp.BasicDataSource" destroy-method="close">
        <property name="driverClassName"
value="{jdbcmetadata.driverClassName}" />
        <property name="url" value="{jdbcmetadata.url}" />
        <property name="username" value="{jdbcmetadata.username}" />
        <property name="password" value="{jdbcmetadata.password}" />
        <property name="maxActive" value="{jdbcmetadata.maxActive}" />

```



```

        <property name="minIdle" value="{jdbcmetadata.minIdle}" />
        <property name="maxIdle" value="{jdbcmetadata.maxIdle}" />
        <property name="validationQuery"
value="{jdbcmetadata.validationQuery}"/>
    </bean>

    <!-- DATASOURCE -->
    <bean id="dataSource"
class="org.apache.commons.dbcp.BasicDataSource" destroy-method="close">
        <property name="driverClassName"
value="{jdbc.driverClassName}" />
        <property name="url" value="{jdbc.url}" />
        <property name="username" value="{jdbc.username}" />
        <property name="password" value="{jdbc.password}" />
        <property name="maxActive" value="{jdbc.maxActive}" />
        <property name="minIdle" value="{jdbc.minIdle}" />
        <property name="maxIdle" value="{jdbc.maxIdle}" />
        <property name="validationQuery"
value="{jdbc.validationQuery}"/>
    </bean>

    <!-- MARSHALL -->
    <mvc:annotation-driven>

        <mvc:path-matching suffix-pattern="true"/> <!-- issue #589 -->

        <mvc:message-converters register-defaults="true">
            <bean id="marshallingHttpMessageConverter"
class="org.springframework.http.converter.xml.MarshallingHttpMessageCon
verter">
                <property name="marshaller" ref="oxmMarshaller" />
                <property name="unmarshaller" ref="oxmMarshaller" />
            </bean>
        </mvc:message-converters>

    </mvc:annotation-driven>

    <bean id="oxmMarshaller"
class="org.springframework.oxm.xstream.XStreamMarshaller">
        <property name="autodetectAnnotations" value="true" />
    </bean>

    <!-- FILE UPLOAD -->
    <bean id="multipartResolver"
class="org.springframework.web.multipart.commons.CommonsMultipartResolv
er">

        <!-- one of the properties available; the maximum file size in
bytes -->
        <property name="maxUploadSize" value="2000000000" />
    </bean>

```

```
</beans>
```

## Modifiche

E' stato rimosso il blocco *log4jInitialization*, non piu necessario con **log4j2**

```
<!-- LOG4J -->
<bean id="log4jInitialization"
class="org.springframework.beans.factory.config.MethodInvokingFactoryBean">
  <property name="targetClass"
value="org.springframework.util.Log4jConfigurer" />
  <property name="targetMethod" value="initLogging" />
  <property name="arguments">
    <list>
      <value>classpath:log4j.properties</value>
      <value>10000</value>
    </list>
  </property>
</bean>
```

## web.xml

Localizzazione: *WEB-INF/web.xml*

[web.xml](#)

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app
  xmlns="http://xmlns.jcp.org/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
  version="3.1"
>

  <display-name>GeoWeb Manager</display-name>

  <welcome-file-list>
    <!--DEFAULT -->
    <welcome-file>index.html</welcome-file>

    <!-- SOLO EXITONE -->
    <!--<welcome-file>indexPortal.html</welcome-file>-->
```

```

    <!--SOLO CDE 3.5 -->
    <!--<welcome-file>gwindex.html</welcome-file>-->
</welcome-file-list>

<servlet>
  <servlet-name>dispatcher</servlet-name>
  <servlet-
class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
  <load-on-startup>1</load-on-startup>
  <!--<async-supported>true</async-supported> must be enable for
use websocket with mapguide -->
  <async-supported>true</async-supported>
  <!--
    It should to solve the problem:
    Request processing failed; nested exception is
    org.springframework.web.multipart.MultipartException:
      Failed to parse multipart servlet request; nested exception is
    org.apache.commons.fileupload.FileUploadException:
      UT000020: Connection terminated as request was larger than
    10485760

    Sizes must to be expressed in byte (B)
  -->
  <multipart-config>
    <location>/tmp</location>
    <max-file-size>104857600</max-file-size><!--100MB-->
    <max-request-size>209715200</max-request-size><!--200MB-->
    <file-size-threshold>0</file-size-threshold>
  </multipart-config>
</servlet>

<servlet-mapping>
  <servlet-name>dispatcher</servlet-name>
  <url-pattern>*.html</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>dispatcher</servlet-name>
  <url-pattern>/rest/*</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>dispatcher</servlet-name>
  <url-pattern>/services/*</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>dispatcher</servlet-name>
  <url-pattern>/files/*</url-pattern>
</servlet-mapping>
</servlet-mapping>

```

```
<servlet-name>dispatcher</servlet-name>
<url-pattern>/</url-pattern>
</servlet-mapping>

<!--HTML REPORT SERVELT STARTS-->
<servlet>
  <servlet-name>ImageServlet</servlet-name>
  <servlet-
class>net.sf.jasperreports.j2ee.servlets.ImageServlet</servlet-class>
  <async-supported>>true</async-supported>
</servlet>
<servlet-mapping>
  <servlet-name>ImageServlet</servlet-name>
  <url-pattern>/jrImage</url-pattern>
</servlet-mapping>
<!--HTML REPORT SERVELT ENDS-->

<jsp-config>
  <taglib>
    <taglib-
uri>http://geowebframework.com/jsp/jstl/functions</taglib-uri>
    <taglib-location>/WEB-INF/gwutil-functions.tld</taglib-
location>
  </taglib>

  <jsp-property-group>
    <url-pattern>*.jsp</url-pattern>
    <page-encoding>UTF-8</page-encoding>
  </jsp-property-group>
</jsp-config>

<listener>
  <listener-class>
    org.springframework.web.context.ContextLoaderListener
  </listener-class>
</listener>

<!--
  It's needed to have HttpServletRequest request available with
  @Autowired;
  inside a generic XUserDetailsService that implements
  UserDetailsService.
  example: SiteminderUserDetailsService.java
-->
<listener>
```

```

    <listener-class>
org.springframework.web.context.request.RequestContextListener
    </listener-class>
</listener>

<!-- Spring Security STARTS -->
<context-param>
    <param-name>contextConfigLocation</param-name>
    <param-value>
        <!-- TODO CONFIGURE, choose one between: -->
        <!-- /WEB-INF/spring-security.xml -->
        <!-- /WEB-INF/spring-security-keycloak.xml -->
        /WEB-INF/spring-security.xml
    </param-value>
</context-param>

<filter>
    <filter-name>springSecurityFilterChain</filter-name>
    <filter-class>
        org.springframework.web.filter.DelegatingFilterProxy
    </filter-class>
    <!--<async-supported>true</async-supported> must be enable for
use websocket whith mapguide, must stay before <init-param> and after
<filter-class>-->
    <async-supported>true</async-supported>
    <init-param>
        <param-name>contextAttribute</param-name>
        <param-
value>org.springframework.web.servlet.FrameworkServlet.CONTEXT.dispatch
er</param-value>
    </init-param>
</filter>

<filter-mapping>
    <filter-name>springSecurityFilterChain</filter-name>
    <url-pattern>/*</url-pattern>
</filter-mapping>
<!-- Spring Security ENDS -->

<!-- FORCE UTF-8 STARTS -->
<!-- important that is at the beginning -->
<filter>
    <filter-name>encodingFilter</filter-name>
    <filter-
class>org.springframework.web.filter.CharacterEncodingFilter</filter-
class>
    <async-supported>true</async-supported>
    <init-param>
        <param-name>encoding</param-name>

```

```
        <param-value>UTF-8</param-value>
    </init-param>
    <init-param>
        <param-name>forceEncoding</param-name>
        <param-value>>true</param-value>
    </init-param>
</filter>

<filter-mapping>
    <filter-name>encodingFilter</filter-name>
    <url-pattern>/*</url-pattern>
</filter-mapping>
<!-- FORCE UTF-8 ENDS -->

<!-- CORS STARTS-->
<filter>
    <filter-name>customOptionsMethodFilter</filter-name>
    <filter-
class>com.geowebframework.webclient.security.cors.CustomOptionsMethodFi
lter</filter-class>
</filter>
<filter-mapping>
    <filter-name>customOptionsMethodFilter</filter-name>
    <url-pattern>/*</url-pattern>
</filter-mapping>

<filter>
    <filter-name>customCorsFilter</filter-name>
    <filter-
class>com.geowebframework.webclient.security.cors.CustomCorsFilter</fil
ter-class>
</filter>
<filter-mapping>
    <filter-name>customCorsFilter</filter-name>
    <url-pattern>/*</url-pattern>
</filter-mapping>
<filter>
    <filter-name>XSSFilter</filter-name>
    <filter-
class>com.geowebframework.webclient.security.xss.CrossSiteScriptingFilt
er</filter-class>
</filter>
<filter-mapping>
    <filter-name>XSSFilter</filter-name>
    <url-pattern>/*</url-pattern>
</filter-mapping>
<!-- CORS ENDS-->
```

```

<!-- MULTIPART FILTER STARTS-->
<filter>
  <filter-name>MultipartFilter</filter-name>
  <filter-
class>org.springframework.web.multipart.support.MultipartFilter</filter-
-class>
</filter>
<filter-mapping>
  <filter-name>MultipartFilter</filter-name>
  <url-pattern>/*</url-pattern>
</filter-mapping>
<!-- MULTIPART FILTER ENDS-->

<!-- [RP20_666_27] INFORMATION DISCLOSURE OF THE INFRASTRUCTURE -->
<context-param>
  <param-name>com.sun.faces.sendPoweredByHeader</param-name>
  <param-value>>false</param-value>
</context-param>

<session-config>
  <session-timeout>15</session-timeout>

  <!-- [RP20_666_14] INSECURE SESSION COOKIE -->
  <!-- The following 4 lines (cookie-config tag) must be
uncommented in production -->

  <!--
  <cookie-config>
    <http-only>>true</http-only>
    <secure>>true</secure>
  </cookie-config>
  -->
</session-config>

</web-app>

```

## Modifiche

Nel blocco sottostante si può scegliere quale spring-security utilizzare fra *spring-security.xml* e *spring-security-keycloak.xml*. Il default è *spring-security.xml*

```

...
<context-param>
  <param-name>contextConfigLocation</param-name>
  <param-value>

```

```
<!-- TODO CONFIGURE, choose one between: -->
<!-- /WEB-INF/spring-security.xml -->
<!-- /WEB-INF/spring-security-keycloak.xml -->
    /WEB-INF/spring-security.xml
</param-value>
</context-param>
...

```

## configuration.properties

Localizzazione:

- *[static-contents-folder]/conf/configuration.properties*
- *src/main/resources/configuration.properties*

Va utilizzato il template disponibile [qui](#) , integrandolo con i dati e le personalizzazioni del vecchio *configuration.properties*

## log4j2.properties

Nelle versioni 4.6.X è stato introdotto **log4j2**, che sostituisce **log4j**.

Localizzazione:

- *[static-contents-folder]/conf/log4j2.properties*
- *src/main/resources/log4j2.properties*

Va utilizzato il template disponibile nella [guida](#), integrandolo con i dati del vecchio *log4j.properties*.

In particolare dovrebbe essere solo necessario riprendere i nomi dei file di log, e configurarli nei blocchi:

```
appender.rolling.fileName = ${sys:catalina.home}/logs/geoweb_client.log
appender.rolling.filePattern = ${sys:catalina.home}/logs/geoweb_client-
%d{yyyy-MM-dd-HH-mm-ss}-%i.log
```

```
appender.rollingEmail.fileName = ${sys:catalina.home}/logs/gwMail.log
appender.rollingEmail.filePattern = ${sys:catalina.home}/logs/gwMail-
%d{yyyy-MM-dd-HH-mm-ss}-%i.log
```

```
appender.rollingAccess.fileName = ${sys:catalina.home}/logs/gwAccess.log
appender.rollingAccess.filePattern = ${sys:catalina.home}/logs/gwAccess-
%d{yyyy-MM-dd-HH-mm-ss}-%i.log
```

Eventualmente integrate ulteriori personalizzazione di progetto/commessa.



## Migrazione metadati

Nella 4.6.0-SNAPSHOT la mappa 2D è stata resa configurabile con un xml nel webadmin (come le mappe BIM) (issue #563). A tale scopo è stato aggiunto il campo **xml\_map\_mode (stringa, maxLenght 4000)** alla tabella dei metadati **gwm\_maps**. Quindi, tramite script del *gw\_resource\_deployer*, o manualmente va eseguito lo script:

```
ALTER TABLE [SCHEMA_NAME].GWM_MAPS ADD XML_MAP_MODE VARCHAR2(4000 BYTE);
```

I metadati che si riferiscono a versioni particolarmente vecchie possono essere importati dal **webadmin**, e venire automaticamente aggiustati, tramite gli appositi *converters* che si preoccupano di effettuare il passaggio da una versione all'altra.

Al momento non viene ancora gestito il popolamento automatico dell'xml. Utilizzare quindi il template seguente:

[map\\_mode.xml](#)

```
<?xml version="1.0" encoding="UTF-8"?>
<mode name='default' label='Base Mode' icon='defaultMapMode.png'>
  <mainToolBar>
    <buttonGroup name='selection' />
    <buttonGroup name='navigation' />
    <buttonGroup name='info' />
    <buttonGroup name='refresh' />
    <buttonGroup name='report' />
    <buttonGroup name='googleStreetView' />
    <buttonGroup name='commandsTab' />
  </mainToolBar>
  <tabList>
    <tab type='layers' name='layers' label='' />
    <tab type='baseMaps' name='baseMaps' label='' />
    <tab type='edit' name='edit' label=''>
      <!--<tabAttribute name='cutCopyPasteToolBar' />-->
      <tabAttribute name='singleInsertToolBar' />
      <tabAttribute name='singleMultipleEditToolBar' />
    </tab>
    <!--<tab type='furniture' name='furniture' label='' />-->
  </tabList>
  <properties>
    <entry key="showScaleLineControl" value="true" />
    <entry key="showScaleControl" value="true" />
    <entry key="showMousePositionControl" value="true" />
    <entry key="startWithMapSwitcherOpened" value="true" />
  </properties>
</mode>
```

Il template va anche puntualmente configurato per decidere quali gruppi di bottoni, tab e controlli visualizzare e quali no. In precedenza queste configurazioni erano globali ed impostabili dall'xml di

progetto. Tutti quei tag vanno considerati **deprecati**:

```
<mapSettings>
  <showScaleLineControl>true</showScaleLineControl>
  <showScaleControl>true</showScaleControl>
  <showMousePositionControl>true</showMousePositionControl>
  <showBaseMapChange>true</showBaseMapChange>
  <showLayersManagement>true</showLayersManagement>
  <showThematisms>true</showThematisms>
  <showMapEditing>true</showMapEditing>
  <startWithMapSwitcherOpened>true</startWithMapSwitcherOpened>
  . . .
</mapSettings>
```

## Note Migrazione

### Download gw-webadmin war (Webadmin)

Il download dell'applicazione gw-webadmin-X.Y.Z.war rilasciate è disponibile in artifactory a questo link (utilizzare le credenziali aziendali):

<http://artifactory.geowebframework.com/artifactory/gw-release/com/geowebframework/gw-webadmin/X.Y.Z/gw-webadmin-X.Y.Z.war>

dove X.Y.Z è la versione di geoweb richiesta.

Esempio webadmin versione 4.6.10

<http://artifactory.geowebframework.com/artifactory/gw-release/com/geowebframework/gw-webadmin/4.6.10/gw-webadmin-4.6.10.war>

Nel caso straordinario in cui si richiede una versione hotfix la struttura del link è la seguente:

<http://artifactory.geowebframework.com/artifactory/gw-hotfix/com/geowebframework/gw-webadmin/X.Y.Z-HOTFIX/gw-webadmin-X.Y.Z-HOTFIX.war>

<http://artifactory.geowebframework.com/artifactory/gw-hotfix/com/geowebframework/gw-webadmin/4.6.11-HOTFIX/gw-webadmin-4.6.11-HOTFIX.war>

## Workflow

In presenza del modulo del workflow, *Activiti* provvederà ad aggiornare le tabelle **act\_\***. In particolare viene aggiornata l'informazione sulla version di activiti che passa da

5.17.0

a

5.23.0

**Questo renderà inutilizzabili eventuali applicativi webapp che puntano allo stesso database, e che sono versioni precedenti alla 4.6.X**

## Preferiti del browser

La pagina di login è passata da **login.html** a **loginPage.html**. Nel caso in cui nei *preferiti*, il link sia salvato con parti oltrelto / successivo al contesto, come per esempio

```
[server]/[nome_progetto]/login.html
```

Modificare il link della voce dei preferiti, così:

```
[server]/[nome_progetto]/
```

## File groovy

Con il passaggio alla versione 4.6.0 del framework, c'è stato un'aggiornamento di librerie. Vanno quindi allineati tutti i **file .groovy** che facevano riferimento alla vecchia versione.

In **rosso** i vecchi import, in **verde** i nuovi path per l' import.

### log4j

Era affetta da varie falle di sicurezza. Adesso viene utilizzato log4j2.

```
private static final org.apache.log4j.Logger log =  
org.apache.log4j.Logger.getLogger("com.geowebframework.groovy");
```

```
private static final org.apache.logging.log4j.Logger log =  
org.apache.logging.log4j.LogManager.getLogger("com.geowebframework.groovy");
```

---

```
import org.apache.log4j.Logger;
```

```
...
```

```
private static final Logger log = Logger.getLogger("com.geowebframework.groovy");
```

---

```
import org.apache.logging.log4j.LogManager;
```

```
import org.apache.logging.log4j.Logger;
```

...

```
private static Logger log = LogManager.getLogger("com.geowebframework.groovy");
```

Inoltre ora log4j 2 viene gestito come parametro sia String che CharSequence, quindi nei .groovy potrebbe generarsi l'errore

```
2023-01-23 16:15:06,330 [ajp-nio-8019-exec-70] ERROR
com.geowebframework.dataservice.service.GwClassListService - Ambiguous
method overloading for method org.apache.logging.log4j.core.Logger#warn.
Cannot resolve which method to invoke for [null, class
java.lang.NullPointerException] due to overlapping prototypes between:
    [interface java.lang.CharSequence, class java.lang.Throwable]
    [interface org.apache.logging.log4j.message.Message, class
java.lang.Throwable]
    [interface org.apache.logging.log4j.util.MessageSupplier, class
java.lang.Throwable]
    [interface org.apache.logging.log4j.util.Supplier, class
java.lang.Throwable]
groovy.lang.GroovyRuntimeException: Ambiguous method overloading for method
org.apache.logging.log4j.core.Logger#warn.
Cannot resolve which method to invoke for [null, class
java.lang.NullPointerException] due to overlapping prototypes between:
    [interface java.lang.CharSequence, class java.lang.Throwable]
    [interface org.apache.logging.log4j.message.Message, class
java.lang.Throwable]
    [interface org.apache.logging.log4j.util.MessageSupplier, class
java.lang.Throwable]
    [interface org.apache.logging.log4j.util.Supplier, class
java.lang.Throwable]
```

in casi del tipo:

```
log.warn(e.getMessage(), e);
```

Da sostituire con:

```
log.warn((String) e.getMessage(), e);
```

## **jackson**

```
import org.codehaus.jackson.map.annotate.JsonSerialize.Inclusion;
```

```
import com.fasterxml.jackson.annotation.JsonInclude.Include;
```

---

```
import org.codehaus.jackson.map.JsonMappingException;
```

```
import com.fasterxml.jackson.databind.JsonMappingException;
```

---

```
import org.codehaus.jackson.type.TypeReference;
```

```
import com.fasterxml.jackson.core.type.TypeReference;
```

---

```
import org.codehaus.jackson.JsonGenerationException;
```

```
import com.fasterxml.jackson.core.JsonGenerationException;
```

---

```
import org.codehaus.jackson.map.ObjectMapper;
```

```
import com.fasterxml.jackson.databind.ObjectMapper;
```

## JTS

in generale:

```
import com.vividsolutions.jts.*
```

```
import org.locationtech.jts.*
```

---

```
import com.vividsolutions.jts.geom.Geometry;
```

```
import org.locationtech.jts.geom.Geometry;
```

---

```
import org.locationtech.jts.geom.Coordinate;
```

```
import org.locationtech.jts.geom.Geometry;
```

```
import org.locationtech.jts.geom.GeometryCollection;
```

```
import org.locationtech.jts.geom.GeometryFactory;
```

```
import org.locationtech.jts.geom.LineString;
```

```
import org.locationtech.jts.geom.LinearRing;
```

```
import org.locationtech.jts.geom.MultiLineString;
```

```
import org.locationtech.jts.geom.MultiPoint;
```

```
import org.locationtech.jts.geom.MultiPolygon;  
  
import org.locationtech.jts.geom.Point;  
  
import org.locationtech.jts.geom.Polygon;  
  
import org.locationtech.jts.geom.Coordinate;  
  
import org.locationtech.jts.geom.Envelope;
```

## Report

La libreria di JasperReports **6.20.1**. E' consigliabile utilizzare per la gestione dei file *.jasper* l'ultimo [Jaspersoft Studio](#).

Il passaggio a **java 11**, ha portato con se il definito superamento di una serie di classi che erano da tempo state marchiate come deprecated, e che adesso sono inutilizzabili.

In particolare, in alcune implementazioni di report, possono essere stati utilizzati costrutti non più funzionanti, in particolare che fanno riferimento a metodi della **class java.util.Date**.

Vanno quindi allineati tutti i **file .jrxml** che facevano riferimento a metodi non più supportati.

In **rosso** esempi di vecchio codice, in **verde** il nuovo equivalente.

### java.util.Date format()

risorse utili:

- [java-8-date-time-intro](#)
- [java-8-how-to-format-localdatetime](#)

```
<textFieldExpression><![CDATA["PRENOTAZIONI DI OGGI " + new java.util.Date().format('EEEE dd-MM-yyyy')]]></textFieldExpression>
```

```
<textFieldExpression><![CDATA["PRENOTAZIONI DI OGGI " +  
java.time.LocalDateDateTime.now().format(java.time.format.DateTimeFormatter.ofPattern("EEEE dd-MM-yyyy"))]]></textFieldExpression>
```

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