

01 Configuring Eclipse

- [Checkstyle](#)
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- [Javadoc](#)
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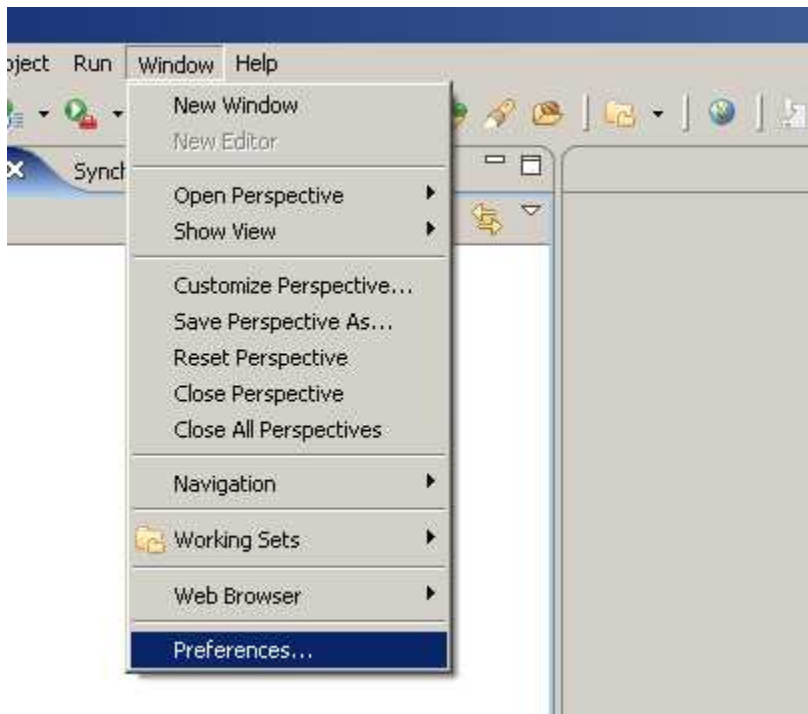
Checkstyle

esup-commons uses strict syntax checks.

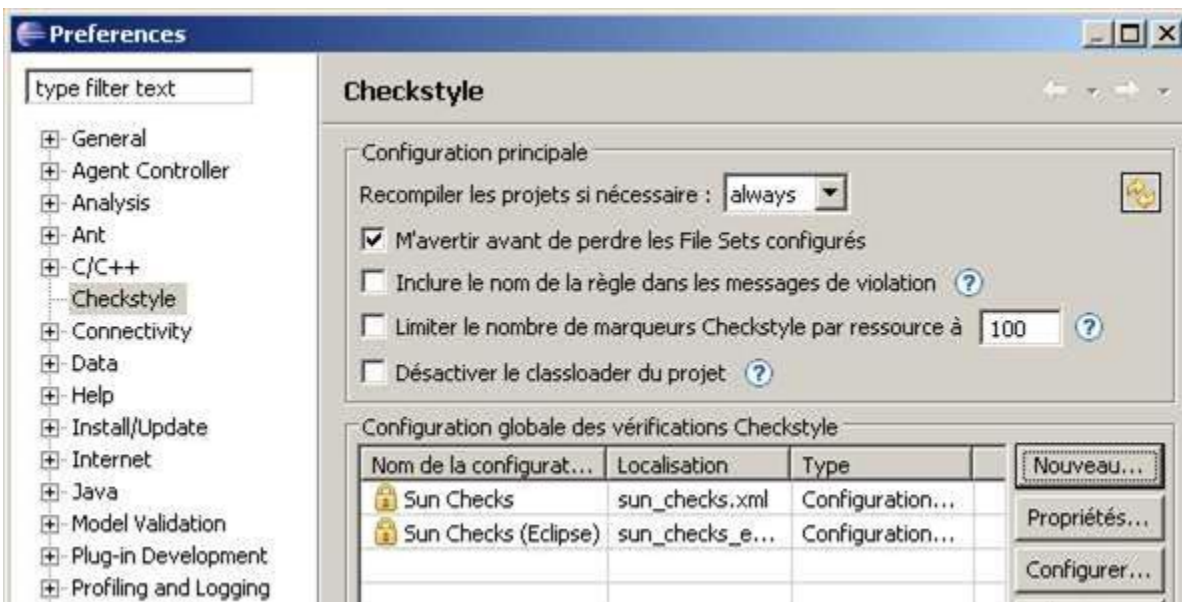
We show here how to:

- Create a *Checkstyle* configuration in *Eclipse*.
- Apply the *Checkstyle* configuration to a project.

Open the *Eclipse* preferences:



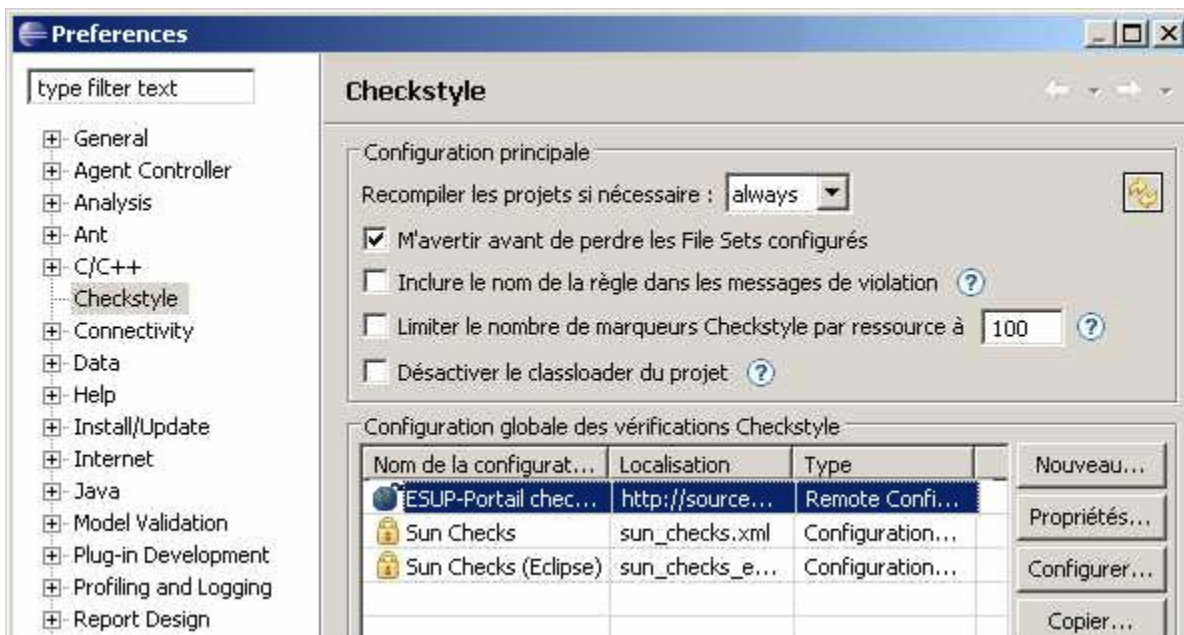
Open the *Checkstyle* preferences and click *New...* to create a new *Checkstyle* configuration:



Create a remote configuration based on the *Checkstyle* configuration file located on the *esup-commons* SVN repository (<http://sourcesup.cru.fr/cgi/viewvc.cgi/trunk/esup-commons/utills/checkstyle/checkstyle.xml?root=esup-commons&view=co>):



The ESUP-Portail checks should now appear in the list of your configurations:



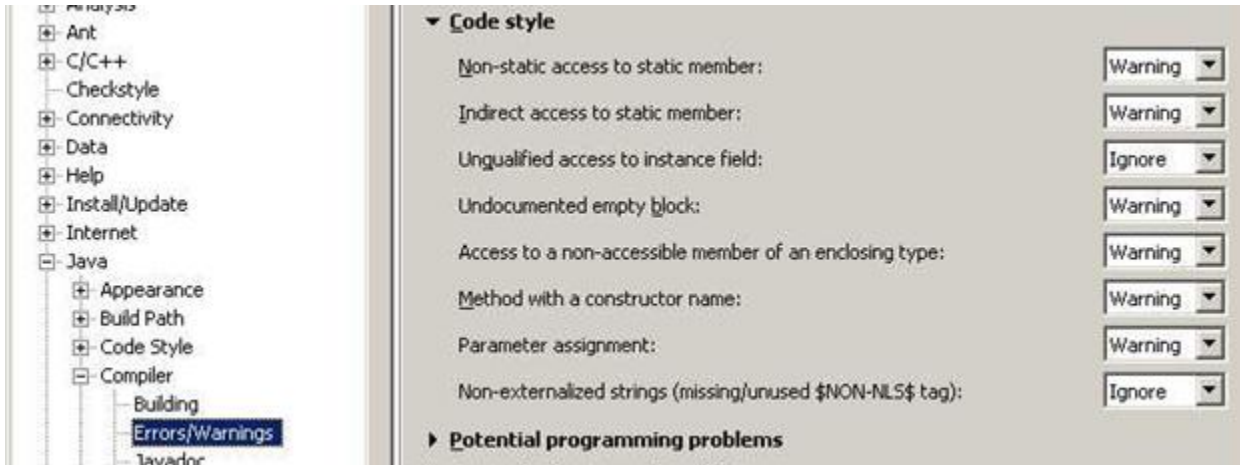
The *ESUP-Portail* checks will be later applied to the *esup-commons* project, as well as all the projects that depend on it.

Java compiler errors/warnings

esup-commons uses strict compilation options to detect code weaknesses (in addition to syntax issues detected by *Checkstyle*).

We show here how to set up these options in *Eclipse*.

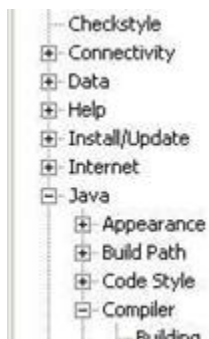
Open the *Eclipse* preferences, then *Java*, *Compiler*:





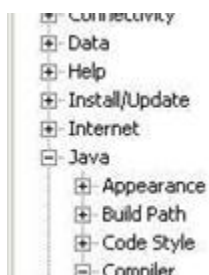
Potential programming problems

Serializable class without serialVersionUID:	Warning
Assignment has no effect (e.g. 'x = x');	Warning
Possible accidental boolean assignment (e.g. if (a = b));	Warning
'finally' does not complete normally:	Warning
Empty statement:	Warning
Using a char array in string concatenation:	Warning
Hidden catch block:	Warning
Inexact type match for vararg arguments:	Warning
Boxing and unboxing conversions:	Ignore
Enum type constant not covered on 'switch':	Warning
'switch' case fall-through:	Warning
Null reference:	Warning



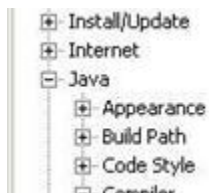
Name shadowing and conflicts

Field declaration hides another field or variable:	Ignore
Local variable declaration hides another field or variable:	Warning
<input type="checkbox"/> Include constructor or setter method parameters	
Type parameter hides another type:	Warning
Method overridden but not package visible:	Warning
Interface method conflicts with protected 'Object' method:	Warning



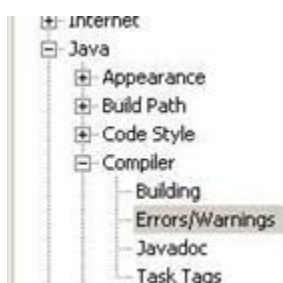
Deprecated and restricted API

Deprecated API:	Warning
<input checked="" type="checkbox"/> Signal use of deprecated API inside deprecated code	
<input checked="" type="checkbox"/> Signal overriding or implementing deprecated method	
Forbidden reference (access rules):	Error
Discouraged reference (access rules):	Warning



Generic types

Unchecked generic type operation:	Warning
Usage of a raw type:	Warning
Generic type parameter declared with a final type bound:	Warning

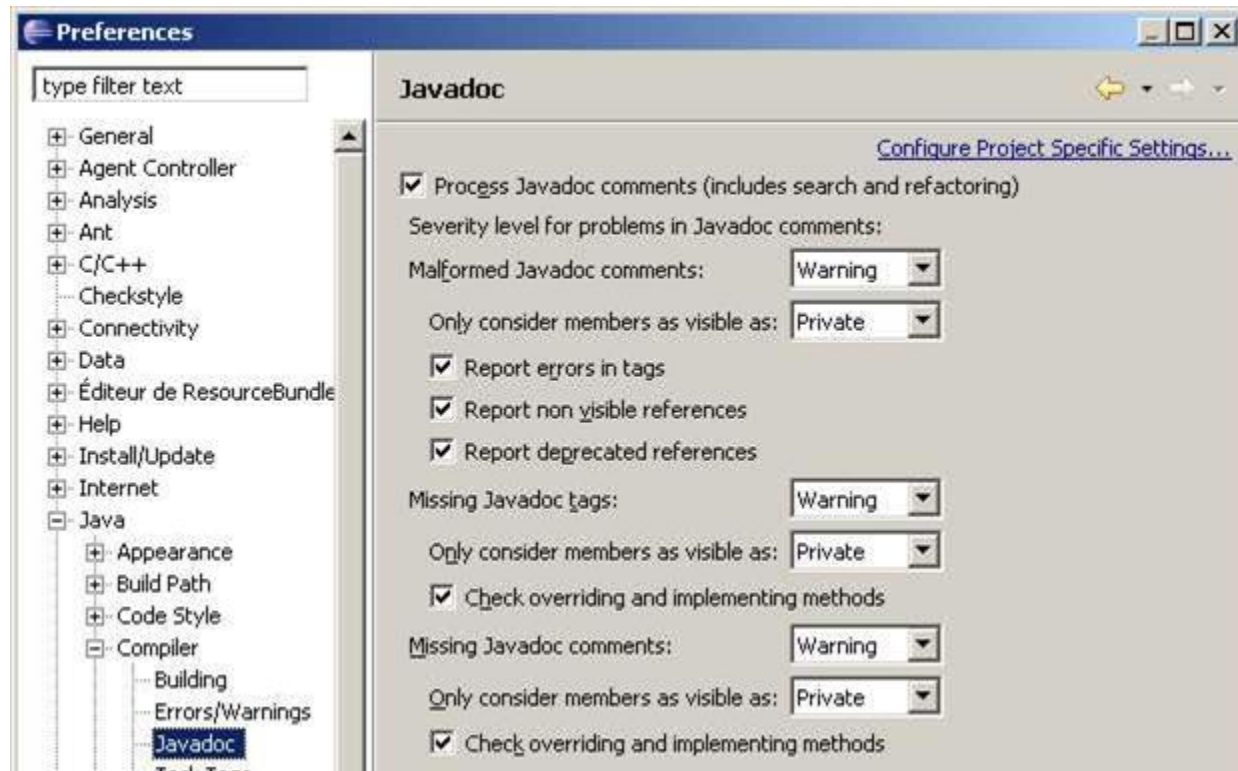


Annotations

Missing '@Override' annotation:	Warning
Missing '@Deprecated' annotation:	Warning
Annotation is used as super interface:	Warning
Unhandled warning token in '@SuppressWarnings':	Warning
<input checked="" type="checkbox"/> Enable '@SuppressWarnings' annotations	

Javadoc

esup-commons also uses strict rules for Javadoc:



RBE

RBE (Resource Bundle Editor) is used to edit i18n bundles. It must be configured the same way by all the esup-helpdesk developers to get the same bundle formatting and this way get rid of conflicts on the SVN repository.

