



## Change log for deegree 2.2 to 2.3

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# 1 Bugs critical

## 1.1 MODULE: CSW

- Fixed deadlock in generic SQL datastore when using DB quadtree.

## 1.2 MODULE: IGEOIDESKTOP

- LOCALWFS datasource did not work for WMS 1.1.1 configuration because some variables has not been initialized

## 1.3 MODULE: WFS

- Fix NPE if GetGmlObject request is not configured.
- WFS 1.1.0 is now CITE compliant
- Fixed deadlock in generic SQL datastore when using DB quadtree.
- valid handling of prefixes using WFS infilter XSL
- PropertyIsLike doesn't fail on HSQLDB any more

## 1.4 MODULE: WMPS

- Fixed deadlock in generic SQL datastore when using DB quadtree.

## 1.5 MODULE: WMS

- Fixed deadlock in generic SQL datastore when using DB quadtree.

## 2 Bugs major

### 2.1 MODULE: CRS

- Fixed memory leak since tomcat cannot delete classes properly.

### 2.2 MODULE: CSW

- wrong class reference removed

### 2.3 MODULE: ENTERPRISE

- Added some more workarounds for the dreaded class loader leaks.

### 2.4 MODULE: FRAMEWORK

- time tools now works correctly
- calculation of scale (according to WMS spec) was wrong by a factor of 1.41
- Corrected scale calculation once again.
- Reverted scale calculation for WMS 1.1.1.

### 2.5 MODULE: IGEOPORTAL

- avoid infinite regress mapping servlet request to a map

### 2.6 MODULE: IO

- using old school update mechanism if the given feature is complex

### 2.7 MODULE: OTHER

- geometry conversion has been fixed
- BoundingBox swapped min and max coordinates, so a raster layer has been draw bottom to top
- correct path's in create gazetteer tables script
- fixed spelling mistakes in wfs\_configuration.xml
- DBPool does now properly clear objects when closed

### 2.8 MODULE: OWS

- avoid infinite regress mapping servlet request to a map

## 2.9 MODULE: WCS

- Fixed painting of coverages, removing strange white lines.

## 2.10 MODULE: WCTS

- strange to explain; after checking out classes did not compile because of some invalid things in file comments

## 2.11 MODULE: WFS

- Fixed sporadical occurrence of "ERROR"
- Fixed synchronization issues. Synchronization is done on the actual resources (the db connections).
- Fixed synchronization issues. Always allow for release of resources to prevent deadlock.
- Fixed synchronization issues. Cleaned up multiple nested synchronize blocks.
- WFS 1.1.0 CITE Test fixed

## 2.12 MODULE: WMS

- calculation of scale (according to WMS spec) was wrong by a factor of 1.41
- due to issue: default behaviour broken for layer datasource definition in wms\_configuration.xml, each layer with datasource localwfs currently needs to define the online resource as "LOCALWFS\_configuration.xml"

## 2.13 MODULE: WPVS

use default value for gml

### 3 Classes added

#### 3.1 MODULE: CRS

- the resources implement typical functionality for all crs providers
- added the mercator class

#### 3.2 MODULE: CSW

- added script to detect invalid service metadatasets with unkown coupled resources

#### 3.3 MODULE: ENTERPRISE

- Added new generic tolerant request filter.
- Added initial version of owsswitch servlet.

#### 3.4 MODULE: FRAMEWORK

- Re-added time-zone aware time tools.
- SVGTranscoder which supports antialiasing

#### 3.5 MODULE: IGEOPORTAL-STD

- Added new module 'Download' for iGeoPortal-std

#### 3.6 MODULE: OTHER

- Loader class for MySQL added
- Added simple gpx reader.

#### 3.7 MODULE: TOOLS

- Added WMS tiling tool.
- Added tool to convert MapServer mapfiles to deegree WMS conf.
- Added SLD harmonizer tool.
- Added security database cleaner (initial version checking for duplicate roles).

#### 3.8 MODULE: WMS

- first implementation for supporting external data sources that are not directly known by deegree

- data access class for OSM slippy map added
- external data access class for drawing WKT geometries being part of a GetMap request

## 4 Code enhanced

### 4.1 MODULE: BASE

- improved/unified the collinearity tests. Added shifting down of points -strategy to reduce floating point errors. otherwise formatted some methods to satisfy the aforementioned changes.
- improved the shifting of the points (in order to avoid large floating point values)
- a simpler solution to the "vectorByAngle problem"

### 4.2 MODULE: COMMONS

- security db synchronization tool for generic LDAP (non-ActiveDirectory)
- added a new Projected CRS with a Mercator projection to the CRS xml configuration file. Made some tentative changes in CRSParser and Projection classes.

### 4.3 MODULE: COVERAGE

- extracted width/height calculations

### 4.4 MODULE: CRS

- made Identifiable
- the CRS.configuration property is now settable as well as configurable over the System.getProperty
- handy method for checking a single id
- the gml provider uses the common CRS provider layout
- retrieving a transformation can be done by using the api. Removed sysos
- equals ignore case
- retrieving a transformation can be done by using the api. Removed sysos
- added the parsing of mercator projections
- added mercator tests
- added test for the loading of all projections
- up casing everything is a bad idea
- added the google maps projected CRS
- upcased urn : from wgs 84

## 4.5 MODULE: CSW

- added synchronized to the create methods
- added support to couple service- with metadatasets
- externalized eMail message
- use logger to write a debug file instead of FileUtils, to avoid FileNotFoundExceptions
- support of harvesting in CSW 2.0.2
- support of correct resourceType in the harvest request
- allow CSW common queryable properties starting with lower and upper case character

## 4.6 MODULE: ENTERPRISE

- Added heuristic to set the java property context.name upon startup
- Added logging of XML parser implementation and XSLT engine in use.
- Added debugging messages.
- Outut a warning when an empty address is configured.
- Added parameter to remove credentials from proxied GET requests.
- close os

## 4.7 MODULE: FRAMEWORK

- useless synchronized statements removed
- the log.logdebug method checks if in debug mode first
- support for mysql added
- support for milliseconds added for creation of ISO 8601 compliant strings
- Calc sqrt(2) instead of hardcoding it.
- Added pretty printing for XML string fragments.
- Added TIME support for MySQL and Oracle (untested).
- method for printing current stacktrace added
- removed deprecated declaration for scale method because scale for WMS 1.1.1 and WMS 1.3.0 are not useable for WMPS
- Sometimes getTextContent returns not null as opposed to getNodeValue.

## 4.8 MODULE: IGEODESKTOP

- serial id added
- support for converting float arrays into strings added
- support for using smtp server authentication added
- fill patterns for polygon now can be colored by replacing black with color defined in Fill element of assigned style
- enabled support of opacity
- start implementing support for update/insert/delete
- implementing support for update/insert/delete
- avoid printing to much useless error messages
- methods for calculating line (not line segment) intersection and curve parallels added
- rendering quality enhanced
- function for getting a point by defining an angle and a distance to an already existing line segment

## 4.9 MODULE: IGEOPORTAL

- CSW client queries the metadata correctly and also it can now search for children datasets
- So far, the scale hint of a layer was only read from web map context document. Now, if this does not yield a result, it will be read from WMS capabilities.
- add scaleHint info from WMS to layer element in client
- enable setting a root path as parameter; enable overwriting scale calculation
- change context creation to enable proper handling of ScaleHint values
- add MetadataURL to layer info for retrieval in csw client
- add debug statement for simple search
- centralized mapping ServletRequest parameters to java.util.Map
- add application attribute to enable identification of igeoportal servlet in jsp pages
- support for layer extension element 'identifier' added
- support for layer trees initialized

- avoid api change, set old constructor to deprecated, indicating the proper new use
- support for layer trees ongoing
- download WFS data for specified WMS layers now working on linux. fixed handling of directories and files
- close os
- read geometry type name from WMC
- add email specific params (SMTP settings); add init params (default number of features returned in a WFS GetFeature request).
- Download-module enhanced with init param TEST\_MAX\_HITS

#### **4.10 MODULE: IGEOPORTAL-PORTLET**

- support for layer trees initialized
- support for layer trees ongoing
- close os
- enable setting a root path as parameter; enable overwriting scale calculation

#### **4.11 MODULE: IGEOPORTAL-STD**

- CSW client queries the metadata correctly and also it can now search for children datasets
- So far, the scale hint of a layer was only read from web map context document. Now, if this does not yield a result, it will be read from WMS capabilities.
- add scaleHint info from WMS to layer element in client
- enable setting a root path as parameter; enable overwriting scale calculation
- change context creation to enable proper handling of ScaleHint values.
- add MetadataURL to layer info for retrieval in csw client
- add debug statement for simple search
- add application attribute to enable identification of igeoportal servlet in jsp pages
- support for layer extension element 'identifier' added
- support for layer trees initialized

- avoid api change, set old constructor to deprecated, indicating the proper new use
- support for layer trees ongoing
- download WFS data for specified WMS layers now working on linux. fixed handling of directories and files
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- Download-module enhanced with init param TEST\_MAX\_HITS

#### **4.12 MODULE: MODEL**

- using Transformation class instead of CRSTransformation
- using the new Transformation Api
- buffer calculation enabled
- method added that enables more detailed control of buffering operation
- Added debugging message.
- Improved error message when segment boundaries don't match.
- read world files from streams
- Changed soundex calculation to the one from apache commons.
- second identifier GOOGLE\_MAPS added for mercator projection describing OSM slippy maps

#### **4.13 MODULE: OTHER**

- Added editing of object names.
- Unused imports deleted
- Enhanced functionality. The tests start at :00, or :15, :30 minutes exactly.  
Performance: The emails are not blocked by the spam filter
- Using predefined WGS84.
- Added a tomcat time down report. Removed unused function
- Added a tomcat time down report email. code enhanced
- Improved stability of the reader by skipping broken likes.
- Improved reader to skip broken lines.
- Added deegree ogc namespace.

- Added better debugging messages.
- LOG-Statements to database loaders added
- removed automatic image loading when setting onlineresource from ExternalGraphic. Instead a image will be loaded when it is accessed the first time
- Made everything (almost) serializable. To complete, some constructors may be missing (but this cannot be tested as my use case for serializable features just went fishing).
- Added possibility to use \$BBOX as placeholder for the missing WHERE clause part.
- Made Font constructor public, fixed type parameters.
- Added logging of stack trace.
- RasterSymbolizer should implement Marshallable to avoid exception when exporting a rule as xml
- added namespace prefix for xml exported RasterSymbolizer
- Added usage of transparency for labels.
- exception during rendering now will be thrown as RuntimeException
- made constructor public
- support for lazy feature loading added
- Made shape file API more tolerant wrt uppercase filenames.
- avoid requesting a feature collections size more than one time
- enhance message text when throwing a RuntimeExcpiton creating display element from lazy raster

#### **4.14 MODULE: OWS**

- The wcts is now able to handle requested / publish configured Transformations as well as the default source/target CRS. A new metadata definition have been created to support this feature.
- centralized mapping ServletRequest parameters to java.util.Map

#### **4.15 MODULE: OWSCOMMON\_1\_1\_0**

- The wcts is now able to handle requested / publish configured Transformations as well as the default source/target CRS. A new metadata definition have been created to support this feature.

## 4.16 MODULE: SECURITY

- Enhanced the drm-admin related portal components to handle service specific rights.
- Added capability to update services.
- Added capability to change services' title and address.
- Added encoding info when starting owsproxy.
- Added deprecation message when using old OWSProxy.
- avoid a possible nullpointer
- add debug statements for constraintsMap
- use generics
- logging enhanced

## 4.17 MODULE: TEST

- added a cached transformation test using the CRS provider
- added some accuracy test
- added the lambert 11 test

## 4.18 MODULE: TOOLS

- better output of the transformation status
- debug statements added logging pathes of created temporary files
- Starting right ahead, closing opened streams (ImageIO.read does not close streams!).
- Added another info line.
- Added capability to process several layers.
- Added better, parseable logging.
- enable overwriting internal sec.properties by putting a file with the same name into classpath root
- Added fix option to Paver.
- Added parameters for overriding srs and pkey information from command line.
- Added -f parameter, no ds + style for unnamed layers.
- Use feature type name upper case always.
- Made the tool more failsafe.

- Added exporting of scale hints.
- Added outputting of LOCALWCS data sources.
- Changed raster layers to "RasterLayer" to avoid loading non-functional layers.
- assignRoleWithUser method to DRMAccess added
- Add app : prefix for property names if none was found.
- DBSchemaToDatastoreConf has now a parameter, where it is possible to omit the creation of a property on FID fields.
- fix usage output
- Added proper CLI.
- Added checking for layers/feature types.

#### **4.19 MODULE: WASS**

- Added capability to use remote WAS for authentication.

#### **4.20 MODULE: WCS**

- first version of support for invoking external scripts as WCS datasource added
- support for timestamp for script based datasources added

#### **4.21 MODULE: WCTS**

- The wcts is now able to handle requested / publish configured Transformations as well as the default source/target CRS. A new metadata definition have been created to support this feature.
- added cache deletion

#### **4.22 MODULE: WFS**

- preparations for the integration of MySQLDatastore
- Added MySQLDatastore for MySQL spatial.
- Improved support for multiple-column feature ids. Thanks to Michiel.
- Skip identification of identical features if identityPart is set to true for the gml
- Feature disambiguation is now performed during insert validation, i.e. before the database transactions are acquired. This way, they are held for a shorter period of time.

- Added auto detection for capabilities version.
- Improved insert rows merge performance, added debug output.
- Improved interoperability with non-namespace aware WFS clients by binding default namespace in WFS GetCapabilities-responses (instead of using wfs prefix).
- Be more tolerant about properties in the GML namespace and ignore them if they are not present in the feature type declaration.
- Added option to switch EPSG 4326 coordinate axis, enabling passing of WFS 1.1.0 beta tests!
- Added GetGmlObject support for features and geometries.
- Enable resolving of xlink for GetGmlObject requests.
- Added mandatory comment when resolving links.
- Enabled xlink resolving for GetFeature requests.
- WFSCapabilitiesDocument#parseCapabilities() respects version now.
- Use local part of feature type name if no title is present.
- Added capability to configure support for external references.
- Added capability to Insert external references.
- Added GetFeature support for simple xlink'd external features.
- Moved remote xlink handling to GML framework.
- Enhanced xlink capabilities, fixed problems with nesting depth.
- Final fixes to make WFS 1.1.0 with Xlink compliant.
- Adding support for WFS Replace operation.
- Make PropertyIsLike on DATE columns work on PostGIS 8.3+.
- Fixed exporting of large coordinates strings as GML 2.
- Added Reijer's hack to work around the multi connection problem. See [http://](#)
- Improvement to Reijer's hack to work around the multi connection problem. See [http://](#)
- Evaluate ows
- Return gml

## 4.23 MODULE: WMPS

- support for png as output format
- including the option to have a jasper specific namespace in printtemplates

- assigning a worldfile to temporary map image

## 4.24 MODULE: WMS

- DATABASE backed layers can now be configured/requested with a custom SQL template.
- DATABASE backed layers can now be requested/configured with custom SQL query.
- SQLTEMPLATES parameter can also be used in conjunction with 'normal' layers.
- Using regex to check incoming SQL.
- Better error messages for cascading GetLegendGraphic requests.
- Added debugging of 1.3.0 transformed conf doc.
- Added proper parsing/output of dimension elements for WMS 1.3.0.
- Re-enabled the regex to prevent transactions in sql requests.
- Added TIME/ELEVATION support.
- Added support for image/png; mode=8bit.
- Changed the 8bit PNG support to one with better colors, but without transparency.
- Added elevation support for raster layers.
- Reworked thread handling for GetFeatureInfo.
- Removed useless inner class.
- Added possibility to generate 'shaded' images from raster data.
- Added transparency support for PNG8.
- Halved the size of PNG8 images by using ImageIO.
- Added debugging statements.
- Added DATABASE datasource type to WMS 1.3.0 configuration docs.
- Enhanced performance of WMS by up to 50% when requesting ~10 layers in a bbox other than WGS84...
- Added possibility to set brightness using se
- Added logging of errors.
- Added possibility to use files as predefined response for GetFeatureInfo requests.
- Implemented perpendicular offset for line labelling.

- Added capability to use TIME and ELEVATION for PostGIS based database layers, in a very limited manner.
- Added usage of default values for 1.1.1 dimensions.
- finished implementation for supporting external data sources that are not directly known by deegree
- make native CRS and default datetime configurable
- configuration for tile root and legend URL added
- Added TIME/ELEVATION support for GFI.
- logging statement added
- Added capability for WMS 1.1.1 configurations to use localwfs based time/elevation dimensions.
- change handling (width, height) of legend graphics in dataaccess for OSM maps
- Added capability to use sortby clauses for WFS datasources, from another patch provided by Reijer.
- Extracted another piece of the 'rendering' into a separate method.
- Updated simple filterproperty/-value VSP to use multiple values if given.

## 4.25 MODULE: WPS

- Get correct error messages(but only once)
- Get correct error messages

## 4.26 MODULE: WPVS

- enable configuration for scene antialiasing
- finer grain of texture filtering configuration
- configure lighting
- rendering attributes
- creation of heightmap
- configure aa, lighting and texture filtering