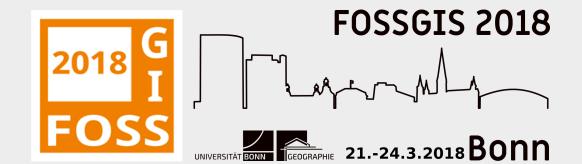


Aktuelles aus dem deegree Projekt

Neues in 3.4 und Weiterentwicklungen für INSPIRE

Torsten Friebe < friebe@lat-lon.de | @torfri >



Sprecher



- Torsten Friebe
 - Mitglied im Technical
 Management Committee (TMC)
 des OSGeo Projekt deegree
- Mitglied der Geschäftsführung lat/lon GmbH, Bonn

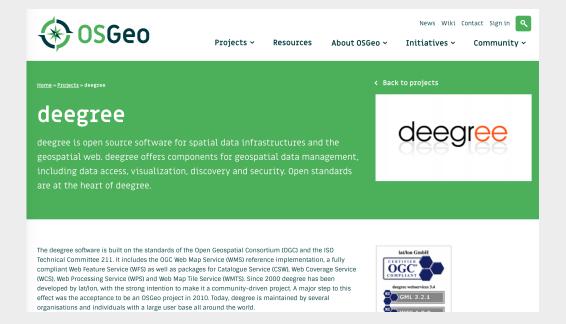




OSGeo Projekt deegree



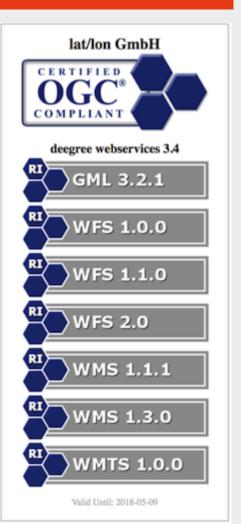
- Projektstart: 2002
- OSGeo Projekt: seit Februar 2010
- Open Source Lizenz: LGPL 2.1
- deegree bei OSGeo
 https://www.osgeo.org/projects/deegree/



deegree und OGC Standards



- Unterstützung für vollständigen INSPIRE Stack:
 - View Service (WMS 1.1.1 and WMTS 1.0)
 - Download Service (WFS 2.0)
 - Discovery Service (CSW 2.0.2 APISO)
- Support f
 ür INSPIRE Datenthemen (GML 3.2.1)
- deegree ist Referenzimplementierung
 https://github.com/opengeospatial/cite/wiki/Reference-Implementation
- deegree beim OGC
 http://www.opengeospatial.org/resource/products/details/?pid=1351



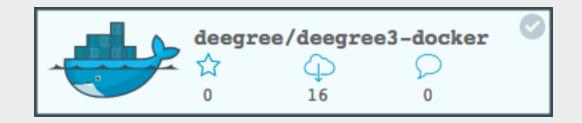
deegree auf Docker Hub





Docker Image unter http://hub.docker.com





https://hub.docker.com/r/deegree/deegree3-docker/

deegree auf GitHub



- **69** Forks
- ★ 50 Stars
- 22 Watcher
- **22** Contributors

https://github.com/deegree/deegree3







- Version 3.4-RC7 in Zahlen
- ♦ feature

- 13 neue Features
- enhancement
- **112** Verbesserungen

🛇 bug

173 behobene Fehler (*)

^{*} Im Vergleich zu Version 3.3



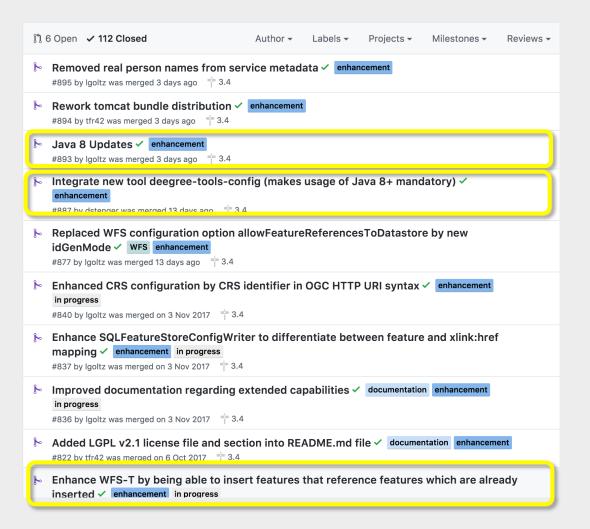
Neue Features (Auswahl) in 3.4

	Author ▼	Labels ▼	Projects ▼	Milestones 🕶	Reviews 🕶		
Implemented response paging for W #619 by Igoltz was merged on 10 Dec 2015		feature					
Implemented support of XML and SOAP encoding for WMS 1.3.0 ✓ feature #598 by dstenger was merged on 1 Oct 2015							
Supported request encodings are made configurable for WFS ✓ feature #544 by dstenger was merged on 1 Oct 2015							
% Oracle GeoRaster Support for 3.4 ✓ #520 by stephanr was merged on 30 Apr 2015							
% Add SVG support to WMS ✓ feature #469 by copierrj was merged on 6 Feb 2015 📫	3.4						
	3.4						
New feature: OWS request time-out #326 by MrSnyder was merged on 11 Nov 2014 ** 3.4							
Basic SOAP support for WFS feature #284 by versusvoid was merged on 25 Apr 2014	_						
GDAL integration and dataaccess me #249 by MrSnyder was merged on 6 Jun 2014	_	ature					
ConnectionProvider for J2EE DataSource implementations × feature #233 by MrSnyder was merged on 25 Apr 2014 † 3.4							
Add control option for linearization of WFS GML output feature #225 by MrSnyder was merged on 21 Feb 2014							
lmplementation of the autoplacemen	t for labels	feature					



OSGeo

Erweiterungen (Auswahl) in 3.4



deegree CLI Werkzeug in deegree 3.4-RC7



 https://github.com/deegree/deegree3/tree/master/deegreetools/deegree-tools-config

deegree-cli-utility

build passing

Command line utility based on deegree3 to generate DDL and deegree SQLFeatureStore from GML application schemas.

You can download the latest release here or build it yourself.

```
git clone https://github.com/lat-lon/deegree-cli-utility.git
cd deegree-cli-utility/
git checkout deegree-3.4
mvn clean package -Pjar-with-dependencies
```

Usage

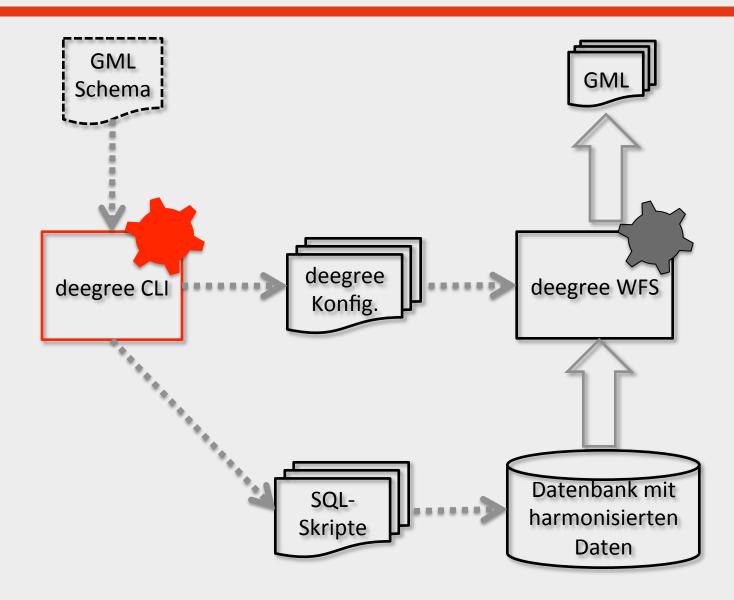
```
Usage: java -jar deegree-cli-utility.jar [options] schema_url

options:
    --format={deegree|ddl|all}, default=deegree
    --srid=<epsg_code>, default=4258
    --idtype={int|uuid}, default=int
    --mapping={relational|blob}, default=relational
    --dialect={postgis|oracle}, default=postgis
```

Bereitstellung von Daten mit deegree WFS











Relational

Tabellen sind aus GML Schema abgeleitet

GML Objekte werden auf relationales Modell gemappt

BLOB

Eine Tabelle

GML Objekt wird als BLOB gespeichert

Relationales Mapping der GML Objekte



deegree SQLFeatureStore Konfiguration

GML Objekte als Relationen

ps_protectedsite Columns (52)	4	attr_gml_id text	ps_inspireid_base_identifier_base_local text	ps_inspireid_base_identifier_base_namespacetext	ps_geometry_valu
attr_gml_id	1	024aa61e-a9	vo_ps_8089	AT.0025.PS.ProtectedSite	0106000020E61000.
gml_identifier	2	8044bccc-9d8	vo_ps_8086	AT.0025.PS.ProtectedSite	0106000020E61000.
gml_identifier_attr_codespa	3	438f81c9-094	vo_ps_8084	AT.0025.PS.ProtectedSite	0103000020E61000.
ps_geometry_attr_nilreason	4	22c6ce8b-a07	vo_ps_8015	AT.0025.PS.ProtectedSite	0103000020E61000
no goometry attr ami remy					

GML Objekte werden als BLOB abgebildet



deegree SQLFeatureStore Konfiguration

GML Objekte als BLOB





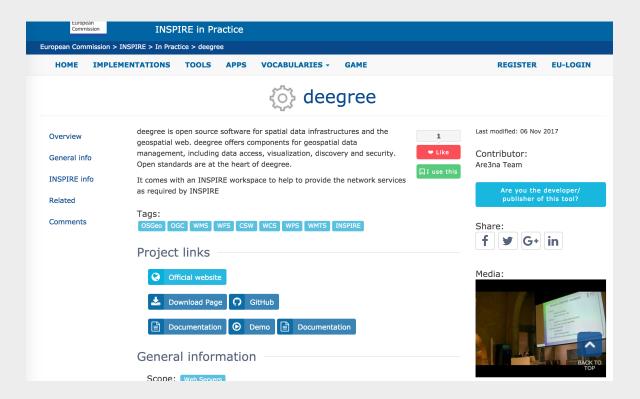


	Relational	BLOB
Storage as	Multiple Tables	Single Table
Supported Geometry types	Database Types	GML (ISO) Geometry Types
Filter Expression to Query	SQL	In-Memory on XML instance
Filter on BBox and GML ID	Using DB Spatial Functions	Using DB Spatial Functions
Response Time (for first byte)	Fair (enough for INSPIRE)	Better

INSPIRE in Practice



- INSPIRE in Practice
- Toolbeschreibung unter <u>https://inspire-reference.jrc.ec.europa.eu/tools/deegree</u>



Beispiele für INSPIRE mit deegree



- Online-Tutorial mit Beispielen für Annex 1 Themen Protected Sites und Cadastral Parcels: https://github.com/lat-lon/deegree-workshop
- Weitere INSPIRE Konfigurationen auf github: https://github.com/de-bkg/deegree-workspace-dlm250-inspire
- https://github.com/DirkThalheim/deegree-elf
- https://github.com/eENVplus/deegree-workspace-eenvplus

Support the community project



- **Solutions velcome** 49 offene Issues
 - Wir suchen Tester, Technical Writer und SW-Entwickler
- \$\infty\$ funding welcome 23 Issues
 - Wir suchen Sponsoren für die Weiterentwicklung

https://github.com/deegree/deegree3/issues



Ausblick



- Migration der Mailing Listen von Sourceforge nach OSGeo
- Neuer Release Zyklus
- Geplante Anpassungen:
 - Java 9/10 Unterstützung
 - Apache Tomcat 9 Unterstützung



Q & A

http://www.deegree.org
Twitter: @deegree_org

PR #820 - Erweiterter WFS-T



- WFS-T kann bei INSERT-Aktion Feature-Referenzen innerhalb der Datenbank auflösen
- Mehr unter:

https://github.com/deegree/deegree3/pull/820



deegree Enterprise Edition ist die Produktversion von deegree

Weitere Infos unter:

http://www.deegree-enterprise.com http://www.deegree-enterprise.de