

deegree

deegree 3 status report



Rutger Bezema / Markus Schneider
bezema|schneider@lat-lon.de
<http://www.lat-lon.de/>

Outline – deegree 3 status report

- **Organisational changes**
- Components
- Design goals
- Status
- Roadmap

Organisational changes with deegree 3

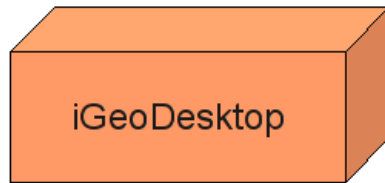
- Establishing of project steering committee (PSC)
- New technical lead
 - Rutger Bezema and Markus Schneider
- Opening the development process to community
 - OSGeo incubation
 - Documentation of activities / technical decisions
 - Weekly developer meeting protocols
 - deegree 3 wiki

Outline – deegree 3 status report

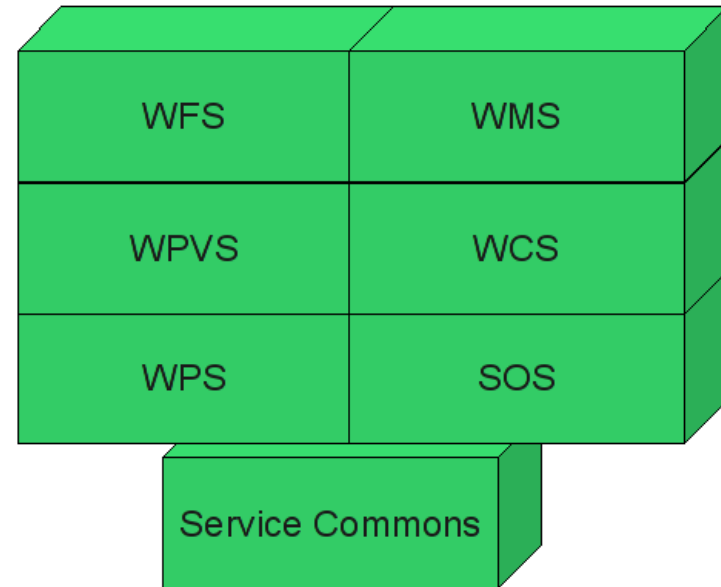
- Organisational changes
- **Components**
- Design goals
- Status
- Roadmap

Components of deegree 3

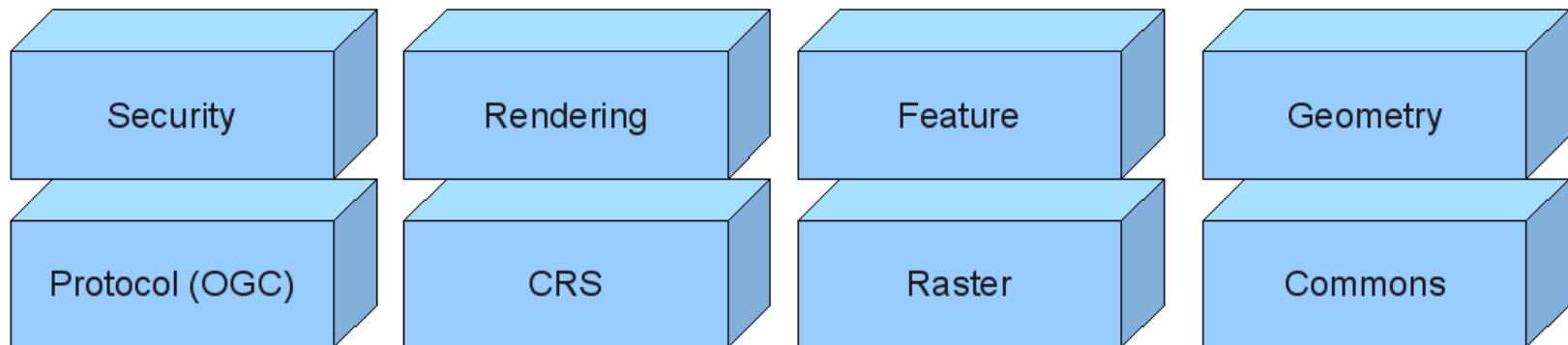
Applications



Services



Subsystems



Outline – deegree 3 status report

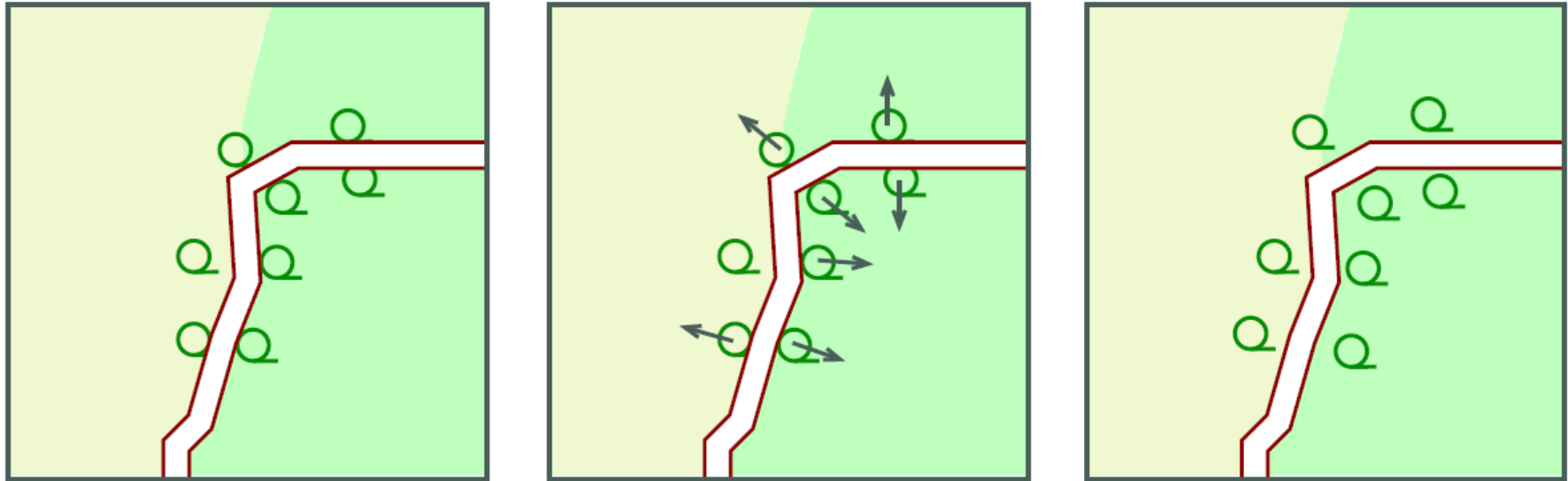
- Organisational changes
- Components
- **Design goals**
- Status
- Roadmap

General goals for deegree 3 services

- Improve speed and scalability
- Enhanced Multi-Protocol support
- Eased configuration
 - Capability-based approach is not optimal
 - Use custom-tailored XML documents
- Offer (generic) SOAP support

Goals for deegree 3 - WMS

- Speedup of map rendering
- „SLD/SE is not enough“ (e.g. ALKIS, ZVAut)



Goals for deegree 3 - WFS

- Handle huge documents more efficiently
- Better support for complex GML schemas
 - XPlanung, RO-Online, CityGML, ...
- New capabilities
 - XLink-WFS: GetGmlObject request, remote XLinks
 - Complex geometries (nonlinear curves + 3D)
 - WFS 2.0
 - GML 3.2

General technical goals

- Dependency management (JARs)
- Separation of API and implementation

Outline – deegree 3 status report

- Organisational changes
- Components
- Design goals
- **Status**
- Roadmap

Updates on the deegree 3 wiki

deegree3 - deegree Wiki - Mozilla Firefox

https://wiki.deegree.org/deegreeWiki/deegree3

deegree

Suchen: Titel Text Anmelden

RecentChanges FindPage HelpContents

deegree3 Locked History Actions

deegree in general

- > products
- deegree2
- > overview
 - > for users
 - > for developers
- > FAQ
- > HowTo
- deegree3
- > overview
 - > for users
 - > for developers
- wiki
- > FrontPage
 - > Registration
- > StartingPoints
 - > RecentChanges
 - > FrontPage/PublicNews
 - > HowToCreateNewPages
 - > WikiSandBox
- > HelpContents
 - > HelpForUsers
 - > HelpOnEditing
 - > HelpOnNavigation
 - > HelpOnSmileys

Status

Current version: alpha1

deegree 3 is the next generation of the deegree Java framework for geospatial applications and OGC service implementations. It's currently under heavy development -- the stable and recommended version is still [deegree2](#).

Last update: 2009-05-25

Service	Status	implemented OGC standards	Maintainer
CSW - CatalogueService	-		Unknown
SOS - SensorObservationService	alpha		MarkusSchneider
WCS - WebCoverageService	alpha	1.0.0	RutgerBezema
WCTS - WebCoordinateTransformationService	-		RutgerBezema
WMS - WebMapService	alpha		AndreasSchmitz
WFS - WebFeatureService	-		MarkusSchneider
WPS - WebProcessingService	beta		MarkusSchneider
WPVS - WebPerspectiveViewService	beta	0.4.0	RutgerBezema

Documentation

- Users looking for documentation or tutorials should start with the [deegree3/users](#) page.
- Development and design related information can be found on the [deegree3/development](#) page.

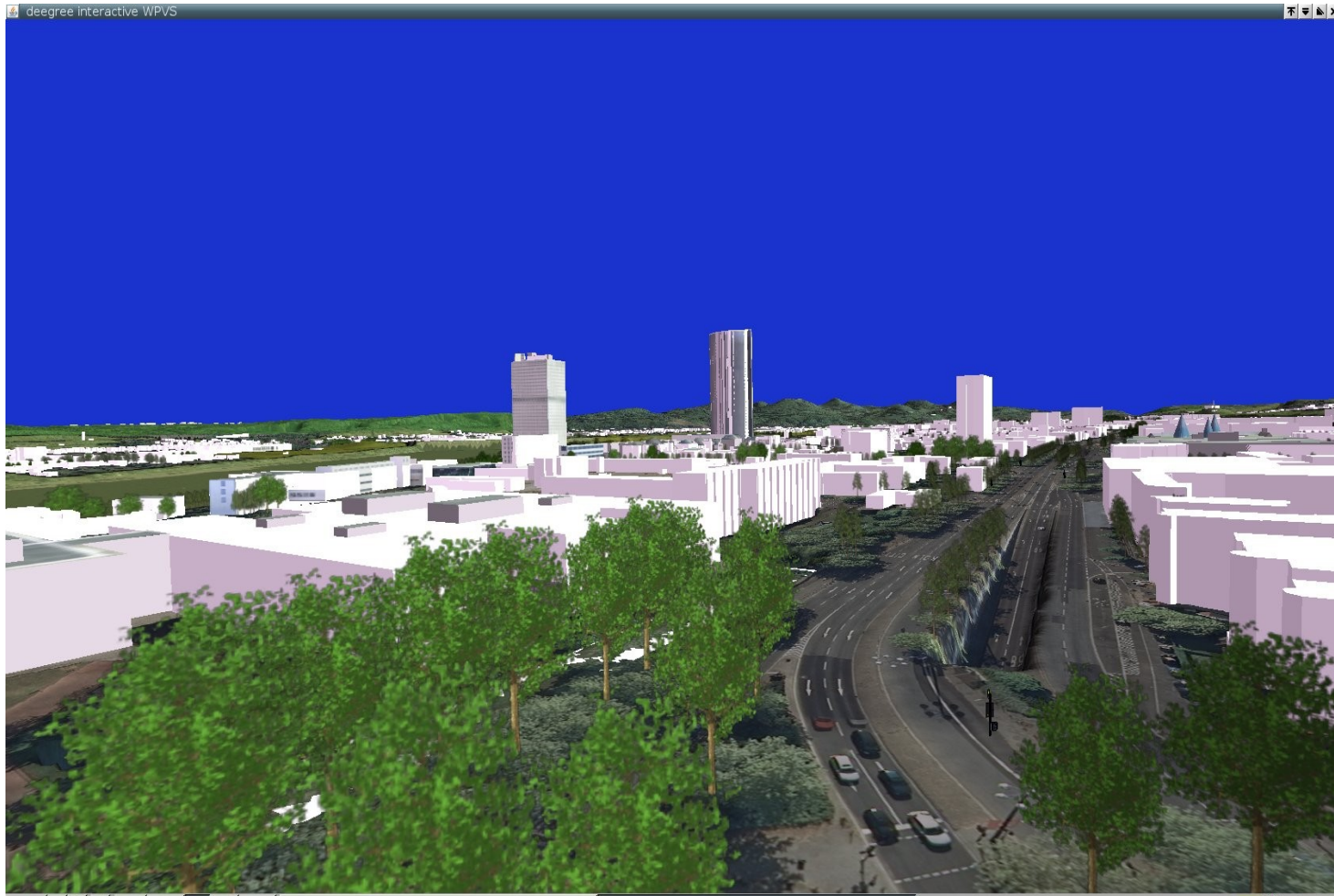
[CategoryDeegree3](#)

zuletzt geändert am 2009-05-25 14:04:50 durch [RutgerBezema](#)

Current status

- Recommended over deegree 2 counterparts
 - WPVS: beta (fully usable)
 - WPS: beta (fully usable)
- Services currently in alpha stage
 - WCS (partly usable)
 - SOS (partly usable)
 - WMS (some basic functionality)
- Not started yet: CSW, WCTS

WPVS (WebPerspectiveViewService)



WPVS features

- Improvements to deegree 2 WPVS
 - Faster (max: 8 s per picture, usually much less)
 - Better rendering quality
 - Easier to configure
- Beta, but fully usable and recommended over deegree 2 WPVS.
- Much more details + pictures: Presentation from Guido Blome, 16:15 (in german)

WPS – WebProcessingService

deegree Version: more info at <http://www.deegree.org>. Copyright by lat/lon GmbH and Bonn University

deegree Generic OGC WebService Client

Service URL:

Choose example request: Example: Request:

```

xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.opengis.net/wps/1.0.0
http://schemas.opengis.net/wps/1.0.0/wpsExecute_request.xsd">
<!--
  Executes the TestProcess with default response behaviour.

  A ResponseDocument with all available output parameters is returned.
-->
<ows:Identifier>TestProcess</ows:Identifier>
<wps>DataInputs>
  <wps:Input>

```

Mit dieser XML-Datei sind anscheinend keine Style-Informationen verknüpft. Nachfolgend wird die Baum-Ansicht des Dokuments angezeigt.

```

- <wps:ExecuteResponse service="WPS" version="1.0.0" xml:lang="en"
  xsi:schemaLocation="http://www.opengis.net/wps/1.0.0 http://schemas.opengis.net/wps/1.0.0
  /wpsExecute_response.xsd" serviceInstance="http://127.0.0.1:8080/services/services?service=WPS&
  request=GetCapabilities&version=1.0.0">
  - <wps:Process wps:processVersion="1.0.0">
    <ows:Identifier>TestProcess</ows:Identifier>
    - <ows:Title>
      Process for testing the different types of input and output parameters.
    </ows:Title>
    - <ows:Abstract>
      The purpose of this process is to provide a means for testing the correct processing of input and
      output parameter types by the deegree 3 WPS implementation.
    </ows:Abstract>

```

WPS features

- Support for almost everything from 1.0.0 spec.
 - GetCapabilities, DescribeProcess, ExecuteProcess
 - KVP, XML and SOAP communication
 - XML, Binary and BBOX input/output parameters
 - Storing of DataOutputs (outputs as references)
 - Asynchronous execution of requests, storing of response documents
 - ...

How to install the deegree 3 WPS / WPVS

- No current deegree 3 release available :-)
- For now: Download + build from SVN (see wiki)
- Just ask! (on the lists)
- Soon: automated-build process and regular releases (end of June)
- Updates on mailing lists / wiki

Outline – deegree 3 status report

- Organisational changes
- Components
- Design goals
- Status
- **Roadmap**

Service Roadmap

- Major goal: deegree 3 WMS+WFS this year (fall/winter)
- Dependencies (API-subsystems)
 - Geometry
 - Feature
 - Rendering (only WMS)

Ongoing subsystem work

- Geometry
 - Mapping of complex geometry types to simple ones (e.g. linearization) to cope with limited possibilities of spatial backends+JTS
 - Persistence
- Feature
 - Finish model and GML schema analysis
 - Persistence
- Rendering
 - Style model
 - Rendering code

deegree

deegree 3 status report



Rutger Bezema / Markus Schneider
bezema|schneider@lat-lon.de
<http://www.lat-lon.de/>