Results of the MetOcean DWG PlugFest

Held at ECMWF, Reading, UK On the 2nd October 2015

Stephan Siemen, Marie-Françoise Voidrot, Iain Russell, Sören Kalesse, Daniel Lee<u>, Alexander Bürger</u>, ... [please add your name after editing]

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Executive summary

The Met Ocean Domain Working Group (DWG) held it latest plug fest at ECMWF as part of the *Visualisation in Meteorology Week*. For the first time not only Web Map Services (WMS) clients and servers were used, but also Web Coverages (Processing) Services (WC(P)S).

The tests using the WMS services and clients shown many improvements from last years plug fest at the EGOWS 2014 in Oslo. Less problems were found in the styling and overlaying of layers. Instead some access problems were observed which are related to access restrictions and security settings.

There was limited testing for the WC(P)S, but still some retrieved data could be visualised.

Test Setup

The plug fest was held in the Council Chamber at ECMWF. Represents of clients were situated at the table while represents of services went around the table and ensured their services were tested.



Figure 1 Photos from the event held in ECMWF's Council Chamber

WMS results sorted by clients

The WMS tests during the plug fest involved nine servers and clients. Table 1 gives the matrix of which combinations were tested and their outcome. Green fields indicate success, while red indicates failure to display a map in the client. Orange is reserved to indicate where

Servers				Cli	ients				
	ADAGUC	GAIA	Diana	Metview	leafLet	ArcGIS	NinJo	IBL	QGIS
IBL	х мо	Х	X ²	X http not https	х	х	Х	Х	Х
ECMWF		х	X ²	х	х	х	х	х	Х
DWD		Х	X ²	X ¹		X ¹	X ¹	Х	Х
NOAA				Х	х				
Météo France	X ³		X ²	X ⁴		Х	Х	Х	Х
WOUDC				Х			х		
KNMI			X ²	X ⁵	х		х	Х	Х
Norway								Х	
EUMETSAT	Х			X			Х	Х	Х

Table 1: Matrix of WMS test results between servers and clients.

Notes to Figure 1

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- 1. Some clients struggled to handle the authentication of the DWD server
- 2. Diana: client side issues with bounding box calculation for some projections,
- 3. ADAGUC/MF pb to access server (ADAGUC pb?)
- 4. Display in Metview was distorted because of a not well defined bounding box
- 5. Metview could not load a particular layer because the default time dimension was invalid
- LeafLet/ECMWF : error

Ninjo/MF : pb to parse getcapabilities

NINJO/KNMI : pb dimension with observation layers

NINJO/EUMETSAT: invalid parameter

Deleted: /* : issues on Diana side?

General observations

In the following some general observations are noted.

 Users found that the naming of layers in EUMETview, the service provided by EUMETSAT, could be improved. Currently the user need expert knowledge to know what the layer contain.

Improvements triggered by the plug fest

Many issues identified during the plug fest were addressed either during or shortly after the plug fest. For example, Météo France updated their services shortly afterwards and offered them to the community for testing. Also the Diana could be improved during the plug fest. Diana

Diana is an open source meteorological workstation software developed and used mainly by MET Norway and SMHI, but also at other institutes and companies.

Since version 3.39, Diana includes an alpha version of an WMS/WMTS/SlippyMap client. The version of the WMS client that was tested at the plugfest had problems with calculating bounding boxes for requests to WMS servers if the map projections of client and server do not match. This problem was known and is under investigation.



Figure 2 - Diana workstation overlaying layers served by ECMWF/eccharts (black wind arrows), DWD (filled), and AROME MetCoop (MET Norway and SMHI, magenta wind arrows),

Deleted: layers served by ECMWF/ecCharts, DWD and France



NinJo

The NinJo forecaster workstation developed by a consortium of Germany, Switzerland, Denmark and Canada, offers since version 1.4 a WMS client.

The WMS client feels content-wise much improved since last year's plugfest. With NinJo there were no problems with the content, but there were more problems with accessing the servers at all. For example there is a need to support HTTP authentication. The client was successful in visualizing WMS data from KNMI, ECMWF and IBL. The client was not able to visualize data from DWD, Météo-France and EUMETSAT's EUMETview service.

Here's a more detailed problem report for the servers that we couldn't connect to:

DWD:

Server:

http://maps.dwd.de/geoserver/wms?request=GetCapabilities&service=WMS&version=1.3.0

We got an exception, when accessing the server. Probably because the server uses HTTP authentication and NinJo does not support that,

Météo-France

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We got an exception in the library that is used to contact the server (geo-tools library). The error happens in the parsing of the capabilities document.

During the plugfest we found out that the reason was a meta-data URL (attribute MetaDataUrl) in the French capabilities-document, which pointed to a server behind the firewall. It seems as if geo-tools library tries to resolve all URLs in the capabilities document.



KNMI:

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The observation server did send a service exception.	
	 Deleted: .
The server returned an error when we tried to access the data. (Querying the capabilities worked fine). The error was also reported by somebody else (I just don't remember who). We have until	 (
now no idea what caused this problem:	
ERROR - xml version='1.0' encoding="ISO-8859-1" standalone="no" ?	
ServiceExceptionReport SYSTEM</td <td></td>	
"http://schemas.opengis.net/wms/1.1.1/exception 1 1 1.dtd">	 Field Code Changed
<serviceexceptionreport version="1.1.1"></serviceexceptionreport>	
<serviceexception></serviceexception>	
Invalid dimension value for layer cloud_area_fraction;	
No results for query: 'hidden';	
Unable to fill in dimensions;	
WMS GetMap Request failed;	
EUMETSAT:	
Server:	
http://eumetview.eumetsat.int/geoserver/wms?service=wms&version=1.3.0&request=GetCapabi	 Field Code Changed
lities	
The server complains that the request for capabilities is invalid. We had no to time to figure out	
exactly why it didn't like the request. This was the error:	
ERROR - <ows:exceptionreport <="" td="" xmlns:xs="http://www.w3.org/2001/XMLSchema"><td> Field Code Changed</td></ows:exceptionreport>	 Field Code Changed
xmlns:ows="http://www.opengis.net/ows" xmlns:xsi="http://www.w3.org/2001/XMLSchema-	 Field Code Changed
instance" version="1.0.0" xsi:schemaLocation="http://www.opengis.net/ows	 Field Code Changed
http://eumetview.eumetsat.int:80/geoserv/schemas/ows/1.0.0/owsExceptionReport.xsd">	 Field Code Changed
 <ows:exception exceptioncode="InvalidParameterValue" locator="service"></ows:exception> 	 Field Code Changed

<ows:Exception exceptionCode= invalidParameter value locator= service >
<ows:ExceptionText>Single value expected for request parameter service but instead found:
[wms, WMS]</ows:ExceptionText>
</ows:Exception>
</ows:ExceptionReport>









ArcGIS



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Metview

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This WMS client is developed as part of ECMWF's Metview workstation. The client lets users browse the available layers retrieved from the GetCapabilities document. Meta data including the legend is displayed at a side panel on the right. An additional panel allows entry of settings for various dimensions.

Metview could not connect to DWD's service because of its use of https and user login.



Figure <u>16</u>: Metview showing the getCapabilities returned by Environment Canada. Layers are shown on the left, on the right a preview is shown. The layer we selected made it hard to check whether it was correctly geolocated, but it seemed plausible.

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Figure 25 – Metview showing a layer from Météo Franci	o's Arnege 0.5 service. The scaling seemed quite wrong	Deletede 20
rigure 22 metricw showing a layer from meteo rande	shipege of service the searing sectice quice wrong.	Deleted: 26
File View Help		
C C C http://surf.meteo.fr/inspire/api/MI04HB7h/2o5FefUp2HDSEct6HmYW	Uo_MF-NWP-HIGHRES-AROME-0025-FRANCE-WMS	
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DIM_REFERENCE_TIME : > 2015-10-02706:00:002	Abstract CRS EPSG:4326	
Time: 2015-10-02T08:00:002 G	Style Style for pressure, isolines without shading. Preview	
Generate preview		
Log		
Status: OK		
Task: Load preview Request: http://sum.rateo.fr/inspire/api/MI04HB7b2o5FefUp2HDSEct6HmYwTUo_ WMS7SERVICE=WM/S&VERSION=1.3.0&REQUEST=GefMap&LAYERS=PRESSUR	.MF-NWP-HIGHRES-AROME-0025-FRANCE- GROUND_OR_WATER_SURFACE&STYLES=PGROUNDNO_SHADING&/	
Figure 26 Metview attempting to plot a layer from Méte	o France's Arome server. The layers seemed to be blank.	Deleted: 27

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Dimensions Name Value	
Figure 27 - Matujay displaying a layor from NOAA. It sound to be located correctly	
Figure ZA - Metview displaying a layer from NOAA. It seemed to be located correctly.	Deleted: 28

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WCS results sorted by clients

This was the first WCS server and client took part in the plug fest.

Servers			Clients	
	QGIS	Rasdaman WCS Client	Rasdaman WCPS	NASA World Wind
IBL	Х			
Rasdaman		Х	Х	Х
Météo France		Х	Х	Х
	Table 1	2: Test matrix for WCS	services and clients	

WCS Rasdaman * to MF server: not directly but through rasdaman servers

Rasdaman

The rasdaman software is developed by the rasadaman GmBH in Bremen and participated through the EarthServer2 project ECMWF is part of.



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Figure <u>30</u> - Rasdaman client showing Météo France data served through WCS redirected through a rasdaman server.	Deleted: 31
QGis 2.10	
https://ogcie.iblsoft.com/ncep/gfs?VERSION=1.0.0&request=GetCapabilities	Field Code Changed
 ssl warning (self-signed cert?) Also does not get any layers to the list from get capabilities, unknown reason 	
http://surf.meteo.fr/inspire/api/MI04HB7fx2o5FefUp2HDSEct6HmYwTUo/MF-NWP	Field Code Changed
WCS?SERVICE=WCS&REQUEST=GetCapabilities&version=2.0.1	
- Because of QGIS not supporting 2.0.1?	
Could not understand the response:	
Download of capabilities failed: Error downloading	
http://incubator.eemwi.int/2d/rasdaman/ows/SERVICE=WCS&REQUES1=GetCapabilities&A cceptVersions=1.1.0,1.0.0 - server replied: Bad Request	Field Code Changed
- Because of QGIS not supporting 2,0.1 ?	
Could not understand the response:	
Download of capabilities failed: Error downloading http://flanche.com.9090/rasdaman/ows?SERVICE=WCS&REQUEST=GetCapabilities&Accept	Field Code Changed
<u>Versions=1.1.0,1.0.0</u> - server replied: Bad Request	
Leader of Koro not outporting 2.0.1	

List of participants

Name	Organisation	Involvement
Jozef Matula	IBL	VisualWeather, OnlineWeather,
		OpenWeather
Michal Weis	IBL	VisualWeather OnlineWeather
Witchar Weis	IDL	OpenWeather WMS & WCS
Martin Franek	IBL	VisualWeather OnlineWeather
		OpenWeather
Stephane Dekeyzer	IRM-KMI	
	Belgium	
Sören Kalesse	DWD	NinJo WMS client layer
Daniel Lee	DWD	QGis as WMS client
Yousef Wadi	Arabia Weather	Leaflet.js as WMS client
	Inc.	
Mikko Visa	FMI	QGis as WMS and WCS client
Iain Russell	ECMWF	Metview as WMS client
Sandor Kertesz	ECMWF	Metview as WMS client
Carlos Valiente	ECMWF	ecCharts WMS server
VI- d Martha andra	Is a ship I In incomited	Declarate W/C/D/C correct & Forth Correct
viad Merticariu	Jacobs University	Rasdaman wC(P)S server & EarthServer
Iulia Wagamann	Bremen	Cilents Desdemon WC(D)S server & EarthServer
Juna wagemann	ECIVIWF	clients
Marc Rautenhaus	Technical	chents
Marc Rautennaus	University Munich	
Ernst de Vreede	KNMI	ADAGUC as WMS client
Michal Koutek	KNMI	ADAGUC as WMS client
Alexandro Coque	Vestas	ArcGIS as WMS client
Alexander Bürger	MET Norway	Diana as a WMS client
Marie-Francoise	Météo France	Event co-ordinator
Voidrot		
Jürgen Seib	DWD	DWD WMS server
Kemy Giraud	Nieteo France	Meteo France WMS & WCS servers
Gabrielle Kaufmann	Mátáo Erance	Mátáo France WMS & WCS servers
Gabi tene Kaumann	wieteo Flance	were mance with a wesservers
Chris Little	UK Met Office	Event co-ordinator
Stephan Siemen	ECMWF	Event co-ordinator
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Appendix 1 - NinJo debug output

DEBUG INFO:

ent=true'>http://geoservices.knmi.nl/cgi-

bin/HARM_N25.cgi?SERVICE=WMS&&version=1.1.1&service=WMS&request=GetLegendGrap hic&layer=wind__at_10m&format=image/png&STYLE=Windbarbs_kts/thinbarbshaded&layers= wind__at_10m&&time=2015-10-02T03%3A00%3A00Z&DIM_reference_time=2015-10-01T12%3A00%3A00&&transparent=true

GetMap:

http://geoservices.knmi.nl/cgi-

bin/bgmaps.cgi?SERVICE=WMS&&SERVICE=WMS&VERSION=1.1.1&REQUEST=GetMap&L AYERS=naturalearth2&WIDTH=1095&HEIGHT=930&SRS=EPSG%3A32661&BBOX=1875747. 771394944,-2807085.247069953,3033107.9582088734,-

1824121.8007348347&STYLES=&FORMAT=image/gif&TRANSPARENT=TRUE&

http://geoservices.knmi.nl/cgi-

bin/HARM_N25.cgi?SERVICE=WMS&&SERVICE=WMS&VERSION=1.3.0&REQUEST=GetMa p&LAYERS=wind__at_10m&WIDTH=1095&HEIGHT=930&CRS=EPSG%3A32661&BBOX=187 5747.771394944,-2807085.247069953,3033107.9582088734,-

 $1824121.8007348347\&STYLES=Windbarbs_kts\%2Fthinbarbshaded\&FORMAT=image/png\&TR\\ ANSPARENT=TRUE\&\&time=2015-10-02T03\%3A00\%3A00Z\&DIM_reference_time=2015-10-01T12\%3A00\%3A00$

https://ogcie.iblsoft.com/metocean/wms?&SERVICE=WMS&VERSION=1.3.0&REQUEST=Get Map&LAYERS=gfs-wind-

agi&WIDTH=1095&HEIGHT=930&CRS=EPSG%3A32661&BBOX=1875747.771394944,-2807085.247069953.3033107.9582088734,-

1824121.8007348347&STYLES=default&FORMAT=image/png&TRANSPARENT=TRUE&&DI M_reference_time=2015-10-01T12%3A00%3A00Z&elevation=10&time=2015-10-02T03%3A00%3A00Z

http://geoservices.knmi.nl/cgi-

bin/worldmaps.cgi?&SERVICE=WMS&VERSION=1.1.1&REQUEST=GetMap&LAYERS=ne_10 m_admin_0_countries_simplified&WIDTH=1095&HEIGHT=930&SRS=EPSG%3A32661&BBOX =1875747.771394944,-2807085.247069953,3033107.9582088734,-18244124.900734824424257VIES=%EORMAT=imaga/mg%TBANSDADENT=TBLIE%

1824121.8007348347&STYLES=&FORMAT=image/png&TRANSPARENT=TRUE&

WMJSLayer::setStyle: Windspeed/contour

GetMap:

http://geoservices.knmi.nl/cgi-

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NT=TRUE&&time=2015-10-02T03%3A00%3A00Z&DIM_reference_time=2015-10-01T12%3A00%3A00

GetLegendGraphic:

http://geoservices.knmi.nl/cgi-

bin/HARM_N25.cgi?SERVICE=WMS&&version=1.1.1&service=WMS&request=GetLegendGrap hic&layer=wind__at_10m&format=image/png&STYLE=Windspeed/contour&layers=wind__at_1 0m&&time=2015-10-02T03%3A00%3A00Z&DIM_reference_time=2015-10-01T12%3A00%3A00&&transparent=true

WMJSLayer::setStyle: Windbarbs_kts/barbshadedcontour

GetMap:

http://geoservices.knmi.nl/cgi-

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1824121.8007348347&STYLES=Windbarbs_kts%2Fbarbshadedcontour&FORMAT=image/png &TRANSPARENT=TRUE&&time=2015-10-02T03%3A00%3A00Z&DIM_reference_time=2015-10-01T12%3A00%3A00

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1824121.8007348347&STYLES=Windbarbs_kts%2Fbarbshadedcontour&FORMAT=image/png &TRANSPARENT=TRUE&&time=2015-10-02T03%3A00%3A00Z&DIM_reference_time=2015-10-01T12%3A00%3A00&COLORSCALERANGE=0,100

GetLegendGraphic:

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GetMap:

http://geoservices.knmi.nl/cgi-

bin/bgmaps.cgi?SERVICE=WMS&&SERVICE=WMS&VERSION=1.1.1&REQUEST=GetMap&L AYERS=naturalearth2&WIDTH=1585&HEIGHT=931&SRS=EPSG%3A32661&BBOX=1617694. 7485606833,-2807085.2470699525,3291160.9810431344,-

1824121.8007348347&STYLES=&FORMAT=image/gif&TRANSPARENT=TRUE&

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1824121.8007348347&STYLES=default&FORMAT=image/png&TRANSPARENT=TRUE&&DI M_reference_time=2015-10-01T12%3A00%3A00Z&elevation=10&time=2015-10-02T03%3A00%3A00Z

http://geoservices.knmi.nl/cgi-

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1830456.6886811408&STYLES=&FORMAT=image/gif&TRANSPARENT=TRUE&

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1830456.6886811408&STYLES=Windbarbs_kts%2Fbarbshadedcontour&FORMAT=image/png &TRANSPARENT=TRUE&&time=2015-10-02T03%3A00%3A00Z&DIM_reference_time=2015-10-01T12%3A00%3A00

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agl&WIDTH=1585&HEIGHT=931&CRS=EPSG%3A32661&BBOX=1336848.0496077924,-2813420.135016259.3010314.2820902434.-

1830456.6886811408&STYLES=default&FORMAT=image/png&TRANSPARENT=TRUE&&DI M_reference_time=2015-10-01T12%3A00%3A00Z&elevation=10&time=2015-10-02T03%3A00%3A00Z

http://geoservices.knmi.nl/cgi-

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1830456.6886811408&STYLES=&FORMAT=image/png&TRANSPARENT=TRUE&

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ERROR - org.ninjoworkstation.client.wms.pac.layer.exceptions.WMSServiceException: 2015-10-02 10:09:15.861 GMT: java.lang.NullPointerException: Content type is required for org.geotools.data.wms.response.WMSGetCapabilitiesResponse

at

org.ninjoworkstation.client.wms.WmsServerSelectionDialog\$4.done(WmsServerSelectionDialog.java:216)

```
at javax.swing.SwingWorker$5.run(SwingWorker.java:737)
```

at

javax.swing.SwingWorker\$DoSubmitAccumulativeRunnable.run(SwingWorker.java:832) at sun.swing.AccumulativeRunnable.run(AccumulativeRunnable.java:112) at

javax.swing.SwingWorker\$DoSubmitAccumulativeRunnable.actionPerformed(SwingWorker .java:842)

at javax.swing.Timer.fireActionPerformed(Timer.java:312)

at javax.swing.Timer\$DoPostEvent.run(Timer.java:244)

at java.awt.event.InvocationEvent.dispatch(InvocationEvent.java:251)

at java.awt.EventQueue.dispatchEventImpl(EventQueue.java:727)

at java.awt.EventQueue.access\$200(EventQueue.java:103)

... 11 more

INFO - Load session: ninjo.session/ECMWF from context ninjo.session scope: [ninjo] user=skalesse

WARN - No servants found for request. org.ninjoworkstation.data.rule.com.RuleServiceRequest@2057f6b6

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Server:

http://surf.meteo.fr/inspire/api/ MI04HB7fx2o5FefUp2HDSEct6HmYwTUo /MF-NWP-HIGHRES-AROME-0025-FRANCE-WMS2SERVICE=WMS&REQUEST=CotCopphilition&vorgion=1.2.0

WMS?SERVICE=WMS&REQUEST=GetCapabilities&version=1.3.0

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Server: http://msgcpp-ogc-realtime.knmi.nl/msgrt.cgi? Sample request: http://msgcpp-ogcrealtime.knmi.nl/msgrt.cgi?&LAYERS=cloud_area_fraction&STYLES=cldmask/nearest&R EQUEST=GetMap&service=WMS&VERSION=1.1.1&TIME=2015-09-25T11:30:00Z&WIDTH=1566&HEIGHT=622&BBOX=-70.46118,10.610472,89.74452,78.358154&SRS=EPSG:4326&FORMAT=image/png&TRA NSPARENT=TRUE&EXCEPTIONS=XML