

# Feedback from the RESIF datacenter (France)

## Data producers : expect services from Data Centers

The data producers are those who should designate where the authoritative datacenter is for their data:

- ensure that the authoritative data reach the user
- obtain statistics on data useage
- be able to improve / correct the datasets for which they are responsible, and make sure those are the data that reach the user

***The notion of authoritative, primary, secondary ... datacenter cannot be harvested at present (not in station XML nor in DOI metadata )***

## Data centers

The Authoritative DC should always receive the requests and deliver (meta)data for the network they are in charge of, regardless of the origin of the request.

***This is not ensured at present***

## End users

- should be sure that any search plan (like f.i. the IRIS *fedcatalog ws*, or the EIDA routing service) will identify clearly the authoritative source of the products.
- should be sure that any search plan will reach all the open FDSN networks.
- should be sure that a routed request will reach the authoritative DC for the data in case of multi-hosting data. Note: This was one of the features of netdc

***This is not ensured at present***

## Examples of requests using IRIS ws-fedcatalog (Harvesting approach): Very confusing (and erroneous) responses - probably multiple causes

*Imagine I do not know anything about the internal mechanics between the datacenters. I want to request data from networks FR, XS(2010-2011), XJ (2009) (authoritative version at RESIF DC, but the user doesn't know this)*

<http://service.iris.edu/irisws/fedcatalog/1/query?net=FR>

DATACENTER=BGR, <http://eida.bgr.de> ==> all stations, locations, channels, wrong dates

DATACENTER=IRISDMC, <http://ds.iris.edu> ==> RUSF only

DATACENTER=LMU, <http://www.geophysik.uni-muenchen.de/observatory/seismology> ==> 3 stations, wrong dates

DATACENTER=RESIF, <http://www.resif.fr> ==> all stations, location, channels, dates

DATACENTER=SED, <http://www.seismo.ethz.ch> ==> 5 stations, no location code, HH channels only

**Of all these responses: only RESIF DC has the latest, corrected dataset. Not clear what data is available from BGR, LMU and SED (if any) - and the metadata is incorrect. RUSF data from IRIS are obsolete**

<http://service.iris.edu/irisws/fedcatalog/1/query?net=XS&startafter=2010-01-01>

DATACENTER=BGR, <http://eida.bgr.de/> ==> all stations

DATACENTER=IRISDMC, <http://ds.iris.edu> ==> all station

DATACENTER=LMU, <http://www.geophysik.uni-muenchen.de/observatory/seismology> ==> 2 HNZ channels

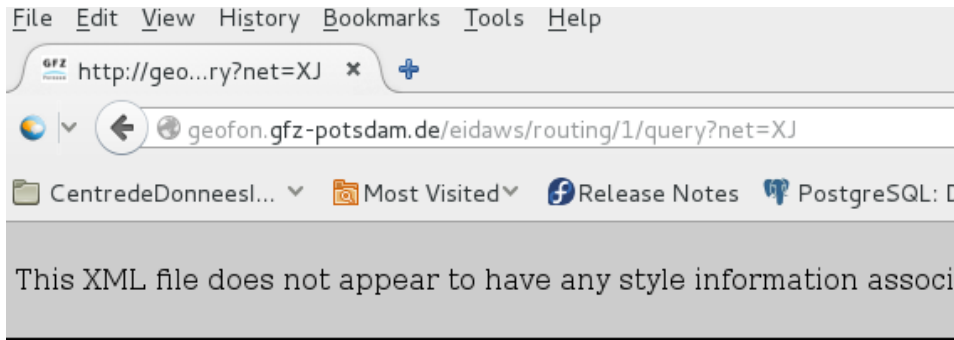
**NO RESIF-DC - even though RESIF is the authoritative DC.**

<http://service.iris.edu/irisws/fedcatalog/1/query?net=XJ&startafter=2009-01-01&endbefore=2009-12-31>

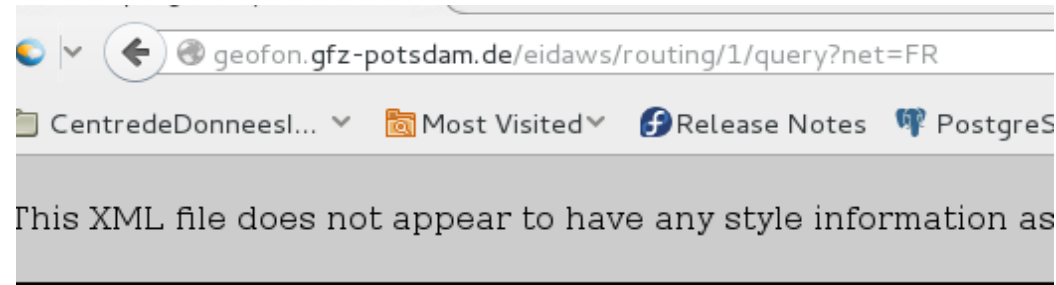
DATACENTER=IRISDMC, <http://ds.iris.edu> ==> all stations

**NO RESIF-DC - even though RESIF is the authoritative DC.**

# Getting some answers testing the proposed EIDA routing



```
-<service>
-  <datacenter>
    <url>http://ws.resif.fr/fdsnws/dataselect/1/query</url>
  -<params>
    <loc>*</loc>
    <end>2009-12-31T00:00:00</end>
    <sta>*</sta>
    <cha>*</cha>
    <priority>1</priority>
    <start>2009-01-01T00:00:00</start>
    <net>XJ</net>
  </params>
  <name>dataselect</name>
</datacenter>
</service>
```



```
-<service>
-  <datacenter>
    <url>http://ws.resif.fr/fdsnws/dataselect/1/query</url>
  -<params>
    <loc>*</loc>
    <end/>
    <sta>*</sta>
    <cha>*</cha>
    <priority>1</priority>
    <start>1994-01-01T00:00:00</start>
    <net>FR</net>
  </params>
  <name>dataselect</name>
</datacenter>
</service>
```

Those responses are correct.

**We need to urgently stabilise worldwide routing.**