WFS version 1.1.0

METAR / TAF

To get the Capabilities from my Obs as a Web Feature Service (from FSDs Vis Weather 4.0.3 Sandbox) ...

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&REQUEST=Get Capabilities

To get the Describe Feature Type (This request is used to obtain the schema of the specified feature-relation) ...

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.0.0 &REQUEST=DescribeFeatureType&TYPENAME=METAR

Demos...

This example gets Geo Ref latest Airport and TAF & METAR from London Heathrow Airport (&ICAO=EGLL) if you just wanted Exeter Airport then use (&ICAO=EGTE)

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.0.0 &REQUEST=GetFeature&TYPENAME=LatestMETAR,LatestTAF&ICAO=EGLL

This example gets Geo Ref latest Airport and TAFs & METARs from ALL UK Airports (&COUNTRY=EG) if you wanted All German Airports (&COUNTRY=ED)

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.0.0 &REQUEST=GetFeature&TYPENAME=LatestMETAR,LatestTAF&COUNTRY=EG

If you just wanted the latest METARs from the link above then cut out LatestTAF...

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.0.0 &REQUEST=GetFeature&TYPENAME=LatestMETAR&COUNTRY=EG

If you wanted Bounding Box from a range of airports, then it would look like this over the UK (&BBOX=-5,47, 4,60)...

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.0.0 &REQUEST=GetFeature&TYPENAME=LatestMETAR,LatestTAF&BBOX=-5,47,4,60

(note data has to be on DB the time of this eg) A time range of METARs from 2017-04-18 to 2017-04-19 (&ISSUE=2017-04-18T00:00:00/2017-04-19T01:00:00) would be from UK & Germany (&COUNTRY=EG,ED)

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.0.0 &REQUEST=GetFeature&TYPENAME=METAR&COUNTRY=EG,ED&ISSUE=2017-04-18T00:00:00/2017-04-19T01:00:00

IFR region selection for latest METARs and TAFs where ICAO of the FIRstarts with letter L (&ICAO~=L*)

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.0.0 &REQUEST=GetFeature&TYPENAME=LatestMETAR,LatestTAF&ICAO~=L*

Limiting the number of Features you want back to 10 METAR reports from EGLL (&MAXFEATURES=10)

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.1.0 &REQUEST=GetFeature&TYPENAME=METAR&STATION=EGLL&MAXFEATURE S=10

Also you can do thing like (&SORTBY) in this case sort by *wind* descending (+D) and *validity* from Exeter Airport with a max of five reports...

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.1.0 &REQUEST=GetFeature&TYPENAME=METAR&STATION=EGTE&SORTBY=wind +D,validity&MAXFEATURES=5

or just wind...

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.1.0 &REQUEST=GetFeature&TYPENAME=METAR&STATION=EGTE&SORTBY=wind +D&MAXFEATURES=5

or just temperature...

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.1.0 &REQUEST=GetFeature&TYPENAME=METAR&STATION=EGTE&SORTBY=temp erature&MAXFEATURES=5

or just visibility...

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.1.0 &REQUEST=GetFeature&TYPENAME=METAR&STATION=EGTE&SORTBY=visibil ity&MAXFEATURES=5

or cloud base (cloud)...

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.1.0 &REQUEST=GetFeature&TYPENAME=METAR&STATION=EGTE&SORTBY=cloud &MAXFEATURES=5

or QNH at Aberdeen Dyce Airport...

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.1.0 &REQUEST=GetFeature&TYPENAME=METAR&STATION=EGPD&SORTBY=cloud &MAXFEATURES=5

RAF Colour Code + validity for RAF Lossiemouth & Coningsby...

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&VERSION=1.1.0 &REQUEST=GetFeature&TYPENAME=METAR&STATION=EGXC,EGQS&SORTB Y=colour&MAXFEATURES=5

RAFOR

As for the RAF RAFOR reports (UK military TAF variation) from as a Web Feature Service

http://exvinnsandbxvw01:8008/

OBSERVATIONS?SERVICE=WFS&VERSION=1.0.0&REQUEST=GetFeature&TYPENAME=RAFOR

It's filtering for stations that start with 'EGT*' and filtering _out_ the ones that have a 'CAVOK...

http://exvvwxdev01:8008/MOMIDS?SERVICE=WFS&VERSION=1.0.0&REQUEST=GetFeature&TYPENAME=METAR&Filter=%3Cogc:Filter%20xmlns=%22http://www.opengis.net/ogc%22%3E%3CAnd%3E%3CPropertylsLike%20wildCard=%22*%22%20singleChar=%22?%22%20escape=%22\%22%3E%3CPropertyName%3EICAO%3C/PropertyName%3E%3CLiteral%3EEGT*%3C/Literal%3E%3C/PropertylsLike%3E%3CNot%3E%3CPropertylsLike%20wildCard=%22*%22%20singleChar=%22?%22%20escape=%22\%22%3E%3CPropertyName%3EreportText%3C/PropertyName%3E%3C/Iteral%3E%3C/PropertyName%3E%3C/Prop

From the **Filter=** of the URL above in a easer way to read...

In the GetCapabilities from the link below you'll find a range of filter operations to play with....

http://exvinnsandbxvw01:8008/OBSERVATIONS?SERVICE=WFS&REQUEST=Get Capabilities

There is a good GIS tutorial on WFS giving you ensamples (at the bottome of the page) you can play with here filtering in URL requests ...

http://mapserver.org/uk/ogc/filter encoding.html