

## 4 USING A WFS SERVER

### 4.1 SETTING UP KA-MAP

The Ka-Map application needs the following tools to work:

1. Mapserver
2. gdal

If you have already setup your server with the **MS4W** package for windows as suggested in the part about creating a web-service all these tools will be installed and you can go ahead and download the **Ka-Map** application. Un-pack the zipped folder and move the folder to the htdocs folder on your web-server.

You need to change a couple of setting in include/config.php:

1. Make sure the mapscript settings fit you setup. If you are using windows use the module php\_gd2 but if you are using linux change this to php\_gd:

```
$szPHPMapScriptModule = 'php_mapscript.'.PHP_SHLIB_SUFFIX;
$szPHPGDModule = 'php_gd2.'.PHP_SHLIB_SUFFIX;
```

2. Change the title to your title and the path must be the path to your map-file. You can change the scales to fit the ones you think you are likely to use.

```
$aszT = array (
    'title' => 'WFS Heritage',
    'path' => '../include/wfs_heritage.map',
    'scales' => array( 20000, 10000, 5000, 2500, 1500, 1000, 500, 100, 50, 20
),
    'format' => 'PNG'
);

$szMapFiles = array( 'wfs_heritage' => $aszT
$szMap = 'wfs_heritage';
```

3. One of the most important parts in the **Ka-Map** setup is to specify a tmp folder which is actually writable for anyone. Otherwise the tile cache will not have anywhere to save the tiles and they will not be created:

```
$szBaseCacheDir = "/ms4w/tmp/ms_tmp/kacache/";
```

### 4.2 CREATING A MAP-FILE TO USE WFS SERVICES

This is done in a similar manner to any other map-file creation except that the connection is not a static map on the server but instead points to the getFeature request on the **WFS** server.

1. Set the connection to the **WFS** server:

```
CONNECTION "http://ark.1parchaeology.com/examples/sintana/sintana_wfs.php?"
```

2. Also the connection type must be changed to **WFS**:

```
CONNECTIONTYPE WFS
```

3. To the metadata of each layer the following must be added setting the type name to the one you would use if you wanted to access the **GML**. The version is 1.0.0, the request method is GET and you can set a connection timeout if you want:

```
"wfs_ttypename"      "Europe"
"wfs_version"        "1.0.0"
"wfs_request_method" "GET"
"wfs_connectiontimeout" "120"
```

Finally, call your **ka-Map** application in a browser. You can of course add other **WFS** services to your map-file in a similar manner as explained above. You just need to know the **WFS** server and call it with REQUEST=getcapabilities and you will get the feature names you need to call each feature layer.

If instead you want to add a **WMS** server this will need some different setting which are all available on **Mapservers** web-site.