

# The use of OGC standards in mobile applications for meteorology

## Discussion items

- Which OGC standards are relevant, e.g. GeoPackage?
- Experiences and existing apps in met services
- Performance issues, scalability, cloud computing
- Cooperation with CDN (content delivery network) companies
- **Mobile optimized web site (HTML5) versus native app**

## Which OGC standards are relevant, e.g. GeoPackage?

- JSON more efficient than XML
- consequence: WMS (for the GetFeatureInfo) and download services (WFS , WCS, SOS) should support JSON output format
- GeoPackage is an extension to SQLite database; reference implementation by Luciad
- Will be interesting to investigate GeoPackage and to find out whether this works well for meteorological data
- May help to minimize the number of requests to a master server. Has impact on contract conditions if you host the server externally

## Experiences and existing apps in met services

- Security is a big issue
- DWD provides two apps on its web site, one of them uses WMS
- ZAMG has a discussion whether they can have one app for all data or specific apps for specific themes. Offers one app but no use of OGC standards
- Some freely available apps and some for dedicated groups which need authentication at Meteo France.
- No decision whether app development should be done inhouse at DWD and Meteo France
- Earth server project provides open source app for geological and climatological data. Based on WMS and WCS

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## Performance issues, scalability, cloud computing

- Concept of Akamai is relevant if you have a big number of users
- Caching on internet servers is a solution to performance issues. Problem is when the cache will/should be updated.
- Big differences in pricing when you are using CDNs