Browser-based Visualization Tool for Weather Radar Data

Webview is the latest software application developed by GAMIC. This lightweight tool enables flexible and hardware independent display of weather radar data in any web browser – desktop or mobile. Webview provides data from single radar sites up to multi-radar networks and serves data in real-time or archive mode.

FLEXIBLE CONTEMPORARY APPLICATION

With GAMIC’s Webview, radar data and products can be displayed from everywhere. The only preconditions are an up-to-date web browser and network access. This enables various and flexible application scenarios, from in-office product monitoring to on-site data inspection and on-the-go weather checkup.

VECTOR MAP UNDERLAY

To allow a detailed geographical assignment of weather radar data, Webview includes an extensive vector map underlay, based on OpenStreetMaps. The level of detail is set dynamically depending on the current zoom level. Webview comes with a basic background map and can be configured to display vector maps with various styles or even satellite image data.

WEBVIEW COMPONENTS

The final visualization in a client’s web browser is the core feature of GAMIC’s Webview. However, its basis is the Webview server which serves radar products from a central database. This is fed by the weather radar product generation on a FROG-MURAN workstation. Instead a basic background map, vector maps or satellite underlays are possible with an optional external cloud map service. Another option is a local map server and can be set up to provide vector tiles for the underlay map which is thereby independent from internet access.