

Next generation communications for your road weather station

— Faster information, just when you need it most



The key to successful and efficient data transfer from your road weather station to display software is quick, resilient communications. Vaisala is introducing secure, broadband communications to roadside weather stations, which will significantly enhance the performance of data management for all Vaisala Bureau Data Service customers.

With the rapid advancement of communication technology, regular methods of communicating with the internet are quickly becoming obsolete. Already, dial-up accounts are being phased out by many suppliers.

MPLS — Releasing the power of communications

To respond to this challenge Vaisala has invested in a business grade private network, which in effect is an internet that will only be accessible for use by our customers and us. MPLS (multi-packet label switching) delivers many benefits, especially in the area of data security as our data will be completely hidden from the rest of the internet.

Critical Event monitoring in a secure, flexible, reliable environment

These are the first steps in realising the benefits of an MPLS enabled weather station. There are many future exciting possibilities one of which may be the ability to have polling regimes automatically changed to match the situation. This means that the system could be configured to deliver higher frequency observations just when you need them most.

Sustainability

- Private communication network only leading to a highly secure broadband method of data transfer
- Resilient system with backup keeping outages to a minimum
- Remote diagnostic testing ensures faster response hence improving operational efficiency and reducing down-time.

Data quality

- Cost efficient higher polling frequencies — no barrier to more up to date data, more of the time
- Reduced lapse time from data collection to display — keeps you up to date in near real time

Operational environment

- Near-real time streaming road weather camera images so you can keep a close eye on developing situations just when you need it most
- User controlled road weather camera pan and zoom, making the most of your installed equipment to enable closer scrutiny of the road conditions.