

IRIS™ Remote rail monitoring solution

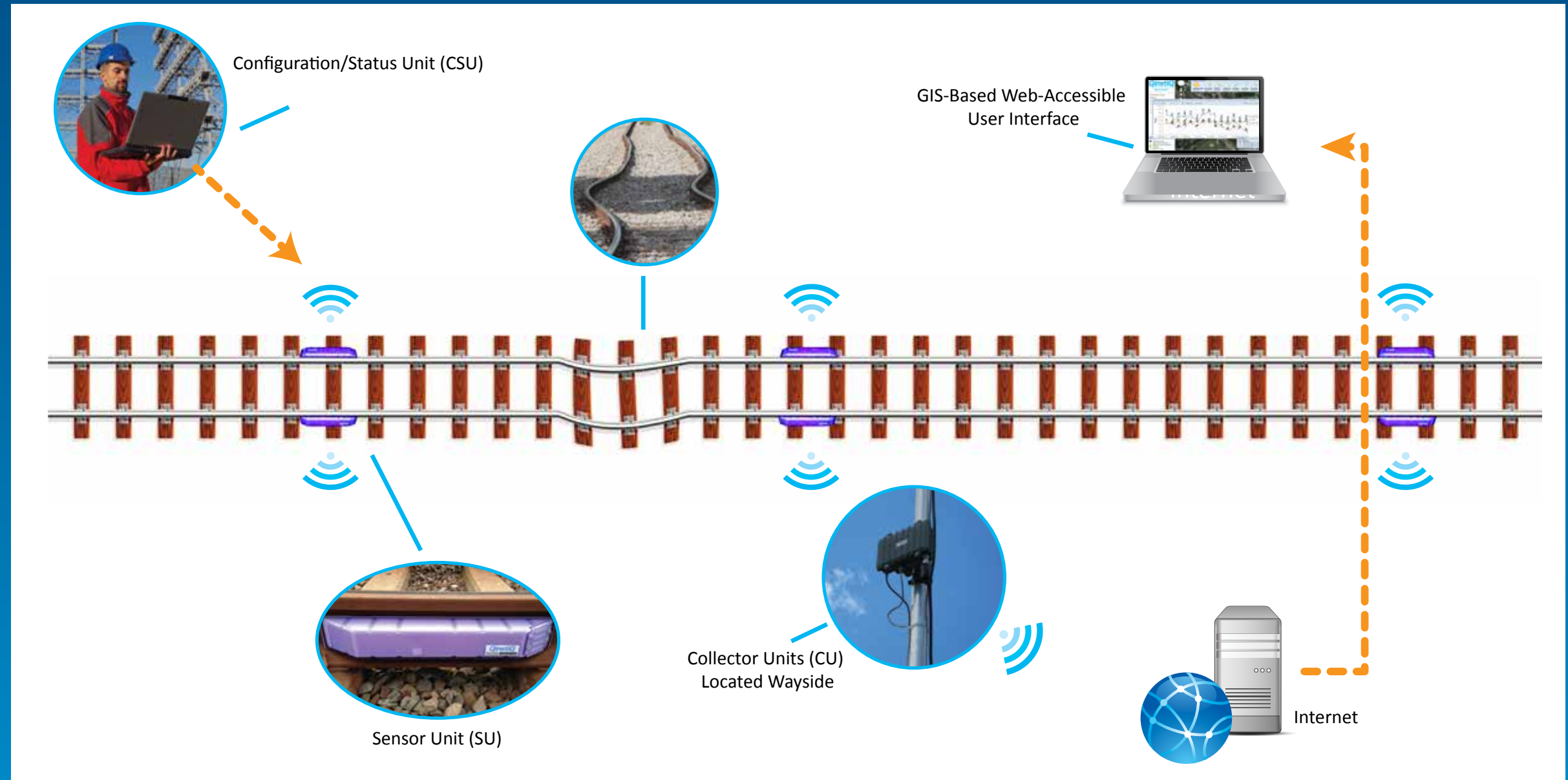
Network of wireless sensors that monitors rail temperature and rail neutral temperature (RNT)

Fully integrated web-accessible system that uses advanced data analysis algorithms to identify hazardous rail conditions

Emergency notification of broken or buckled rail

Rail status alerts via e-mail/text

- Rail Temperature Alerts (RTA) when rail temperature exceeds pre-set thresholds
- Thermal Load Alert (TLA) via when difference between rail temperature and RNT exceeds pre-set thresholds



The IRIS Sensor Unit (SU) is the cornerstone of the rail monitoring system. Installed along CWR, SUs continually track changes in rail temperature and rail neutral temperature to monitor the track's integrity. Collector Units (CUs) mounted on wayside towers collect SU data and broadcast information to a GIS-based web-accessible database. The application sends RTAs and TLAs to maintenance personnel when unsafe rail conditions arise. The intuitive user interface provides maintenance personnel with powerful geospatial overlays and query functions to identify high-risk rail conditions and their locations. The Configuration/Status Unit (CSU), a USB dongle that enables wireless communications with SUs, is used to configure system settings, query SU status, and download data.

Solving Today's Transportation Challenges with Tomorrow's Technology