

Weather Radar Networks

Performance that can be relied on to protect people,
property



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Weather Radar Networks

We can't stop severe weather; but, with proper advance notice, we can ready ourselves to minimize the damage that can result. Accurate and timely information delivered by weather radar networks helps national meteorological services disseminate forecasts and warnings of heavy rain, severe winds, and other severe weather phenomena. This information helps the state's population, public services, and weather-sensitive businesses make the preparations that can help mitigate adverse effects on people and property.

Meteorological services are relying on Schneider Electric to install, network, and maintain the radar observation systems that are of strategic importance to their countries.

Schneider Electric's decades of expertise in information control systems and experience in weather data projects allow it to implement radar observation networks that provide a complete solution. They include not only data acquisition and management technology but also the control center visualization and analysis tools that enhance communication of the radar-based information.

This comprehensive solution allows the meteorological service to be highly effective in:

- Generating and broadcasting forecasts and warnings to the general public for dangerous weather conditions
- Targeting weather predictions specific for sectors such as aviation, energy, and hydrology
- Supporting decision making for emergency processes and public safety services.

Comprehensive network

Schneider Electric weather radar networks comprise advanced radar system hardware and software:

- antenna-pedestal subsystem,
- transmitter subsystem
- receiver subsystem
- processor subsystems.



Schneider Electric offers decades of experience in securely operating and managing networks that receive weather stations data

Each radar system operates automatically and as part of a coordinated network. Each system detects and tracks weather phenomena in its designated area and continuously transmits data to regional and central processing centers equipped with workstations installed by Schneider Electric. There, mosaic images are generated that display comprehensive, near-real-time results of all parameters observed in all key locations.

Further, the information provided by Schneider Electric radar observation networks can be integrated with satellite images and with data originating from other-source networks. The radar network centers also allow remote control and monitoring of the local radar system.

This highly integrated weather information solution assures complete data acquisition and rapid information processing. Many clients also retain Schneider Electric for thorough preventive and corrective maintenance of their valued radar observation networks, to assure minimal downtime and continuing optimal functionality and reliability.

Why Schneider Electric?

Weather radar observation networks are national mission-critical systems in many countries, and meteorological services need to count on the efficiency and effectiveness of those systems when the safety of people, property, and water resources are on the line. Schneider Electric solutions apply open architecture platforms and integrate with



existing infrastructure and other standardized platforms that might be added — making them extensible, durable, and dependable today and tomorrow. Meteorological services trust Schneider Electric's proven solutions and can count on them to provide the best performance — and investment return — possible.

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