

General Information:

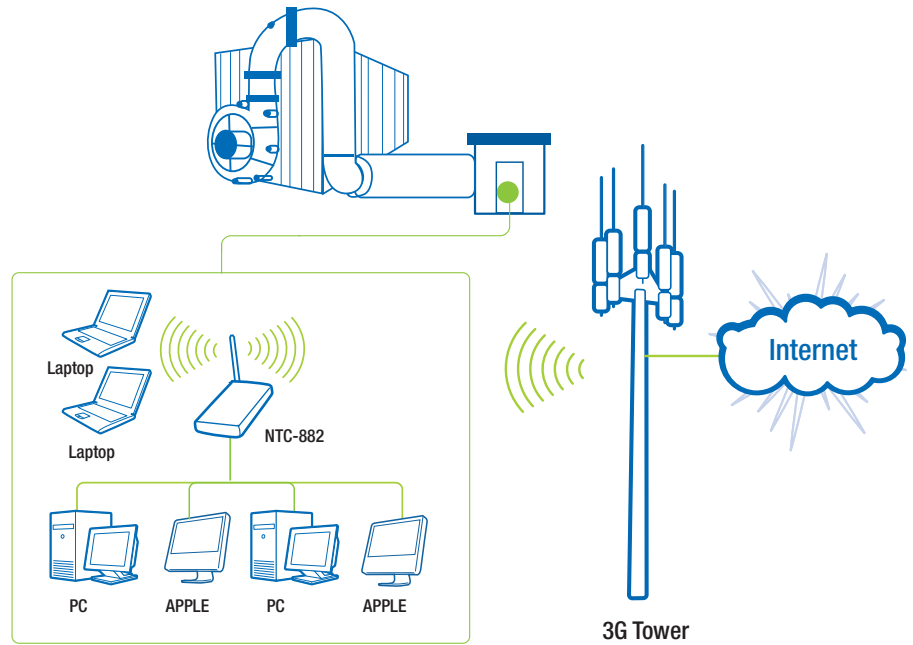
Issue: Provide a constant Internet connection for monitoring critical infrastructure.

Solution: Utilise 3G wireless Internet connection

Benefits:

- Provides an effective connection independent of ADSL footprint
- Designed for adverse and unmanned environments
- Internal processing capacity

Hardware: NetComm NTC-882seu



In critical infrastructure such as water or gas pipelines, remote monitoring of elements like pumping stations and valves needs to be undertaken constantly. However these sites are usually unmanned and are very often built in remote or geographically dispersed locations. The sorts of operating environments that can be experienced by electronic equipment at these sites can also be extreme in terms of temperature, vibration and humidity.

Furthermore, installing dedicated communication lines to such infrastructure is not always possible or economically feasible. Even if a telephone line is available, the site may be too far from an exchange to make an ADSL connection worthwhile.

The solution is to use a 3G network accessed through a robust and dependable router. Connecting via a 3G network avoids the need for phone lines to be installed at a site or any concerns about being located away from the optimal ADSL footprint. The portability of 3G routers also means that they can be easily moved from site to site at need, or located within a site according to equipment layout, rather than phone line location.

Being designed for adverse environments, the NetComm NTC-882seu is an ideal solution for this sort of deployment. Contained within a metal case and utilizing industrial strength components, its rugged build and its ability to operate in a wide temperature range (from -30°C to 70 °C) make it perfect for installation on critical infrastructure sites.

The NetComm NTC-882seu contains the processing capabilities to have tailor-made software incorporated. In the above scenario, this means that authorities can have a monitoring and communications device all in one.

The unit also has an integrated 'Keep Alive' system monitor that periodically checks the full status of the network connection by pinging an IP address. Should the unit determine that the connection has been lost, it automatically restarts itself to re-establish connection. No need to have a technician visit the unit and re-boot it. This feature is vital in unmanned, hazardous or remote locations, especially those where gaps in monitoring could potentially have disastrous consequences.

Whatever the environment and wherever it is, the NetComm NTC-882seu is ready to maintain the link between vital infrastructure and those who watch it.