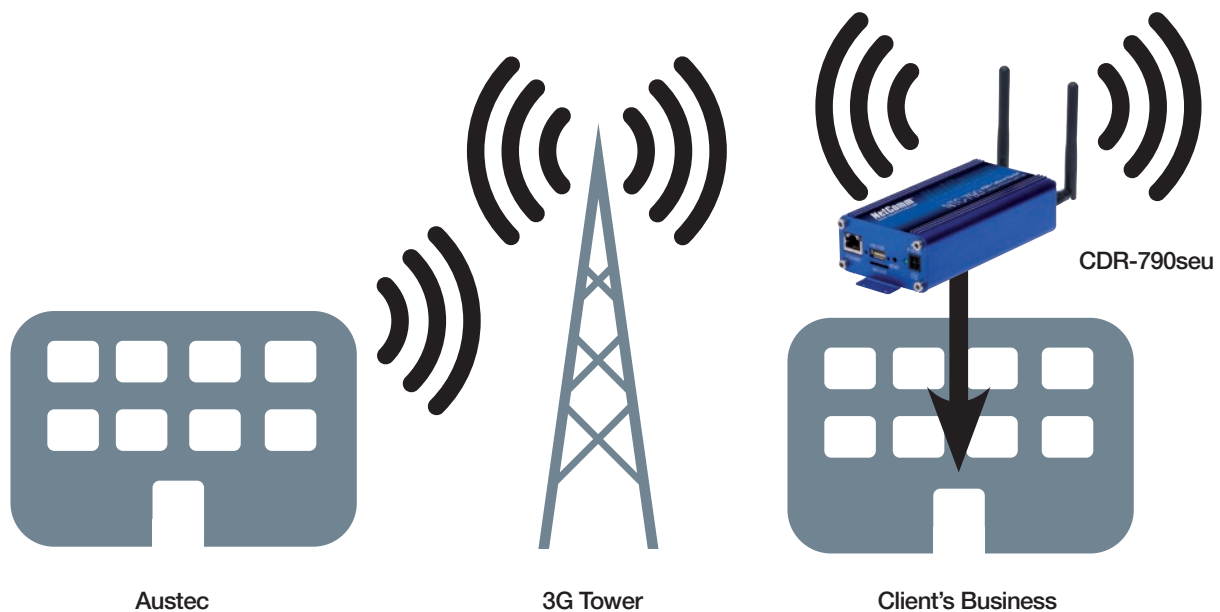


# NETCOMM CALLDIRECT SERIES

## Real Time Over the Air Condition

NTC-790



### GENERAL INFORMATION

- Challenge:** To be able to remotely real time monitor newly installed air conditioning systems at customer sites
- Solution:** To use an IP based data acquisition application running over an existing cellular based network. Allowing for ease of installation and reliable real time data collection
- Equipment:** Call Direct CDR-790 3G cellular router.
- 3G cellular network
  - Dedicated Digital Controller from Reliable Controls Corporation
- Benefits:** Speed of installation
- Cost effective solution
  - Large operational cost savings
  - No requirements for proprietary radio network to be installed

Austec is a leading provider of Building Automation Solutions, based in Brisbane and Adelaide. The firm specialises in air-conditioning systems and works on major installations in the commercial, retail and defence sectors.

During the defects liability period of a new installation, Austec needs to keep a constant watch on the air-conditioning system and carry out many fine-tuning and updating tasks. Data obtained from temperature sensors and other metering devices, as well as feedback from occupants, must be scrutinised and responded to. Upgrading software or firmware is also a regular duty. In the past, much of this work involved technicians visiting the premises to download the data, change settings or install the upgrades. Dial-up modems were also used, but the cost of line installation and rental was not economical given the limited data speeds.

The solution was 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.

By using a Call Direct industrial 3G router Austec now has access to their equipment remotely. The router is connected to the control panel of the plant, usually on the roof of the premises.

From their own office the technicians can then log into the system and extract the data they require, as well as uploading firmware and other upgrades. The use of a 3G device greatly speeds the exchange of data and saves the firm thousands of dollars in technician site visits over the course of a typical liability period.

Being designed for demanding environments, the Call Direct family of routers are ideal for this sort of deployment. Contained within a metal case and utilizing industrial strength components, their rugged build and its ability to operate in a wide temperature range (from -30°C to 70 °C) make them perfect for installation on outdoor sites. The routers also contain on-board processing capabilities enabling tailor-made software to be incorporated, turning them into monitoring and communications devices all in one unit.

For Austec and their air-conditioning scenario, Call Direct proved to be a cool solution.



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