

WATER DISTRIBUTION NETWORK MONITORING AND CONTROL

THE CUSTOMER

A water supplying company in the south west of England (SWW) is responsible for the supply of water services to the whole of Devon and Cornwall plus some small areas of Dorset and Somerset in the UK.

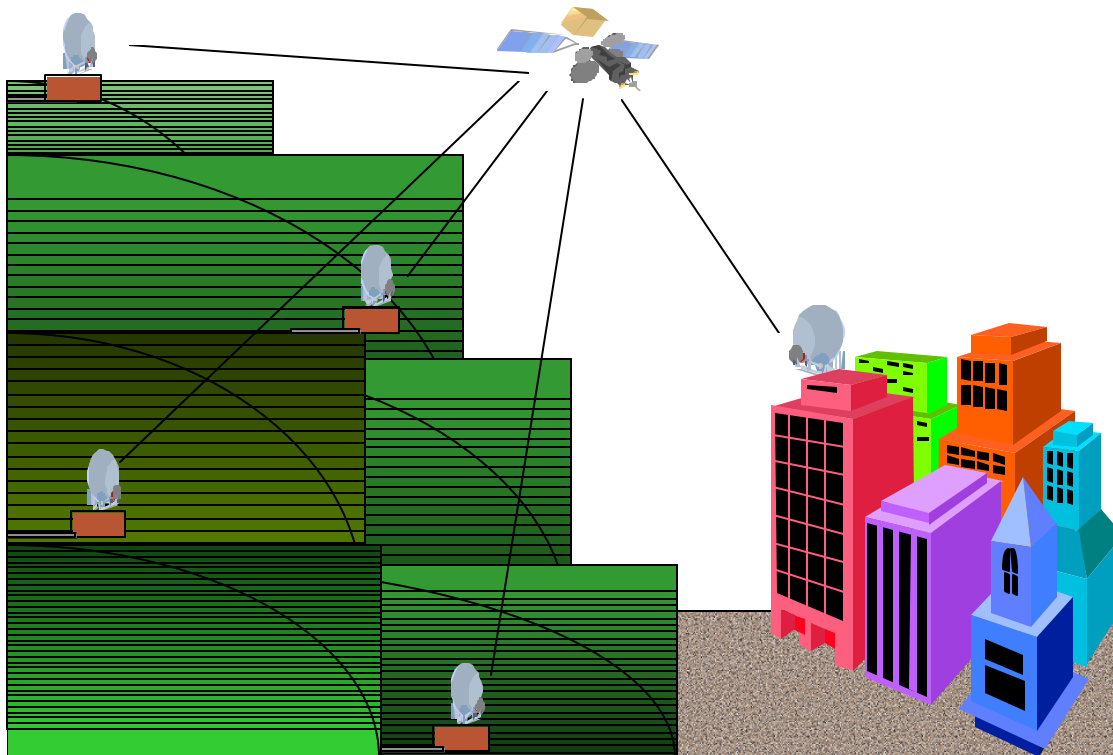
THE NETWORK

The network consists of 18 remote TSAT stations and 1 Hub located in the HQ building in Exeter.

THE APPLICATION

The regional SCADA system is a telemetry and computer system that is used throughout the company to gather and display information about the state of all of SWW's operational plant and equipment. This includes reservoir levels, pump conditions, flows, water quality parameters etc., it also includes alarms that are generated on these sites to inform standby personnel of plant/equipment /quality failure.

NETWORK SCHEMATIC



THE INTERFACE AND THE EQUIPMENT

FACT SUMMARY

Application	Remote monitoring and control of water and waste water works
Network	1 Hub and 18 Remote Stations
Interface	RS 232
Application protocol	Byte Stream
Application interface	1200,N,8,1
Speed Satellite Link	1200
Average package size	100
Message size	100
Response time requirement	
Uptime per day	24 hours
Antenna mount	Hub standard, all RTs wall or roof mount
Temperature environment	Summer: up to +30 ⁰ Centigrade Winter: down to -15 ⁰ Centigrade
Wind environment	Normal
Humidity environment	5 - 60%
Implementation	Summer 1996
Location	South West England
Satellite	Eutelsat II-F2
Service Provider	Radiocommunications Agency