

AQ Web

Next Generation
Air Quality Monitoring
& Data Management Technology

AQ Web - A New Way!



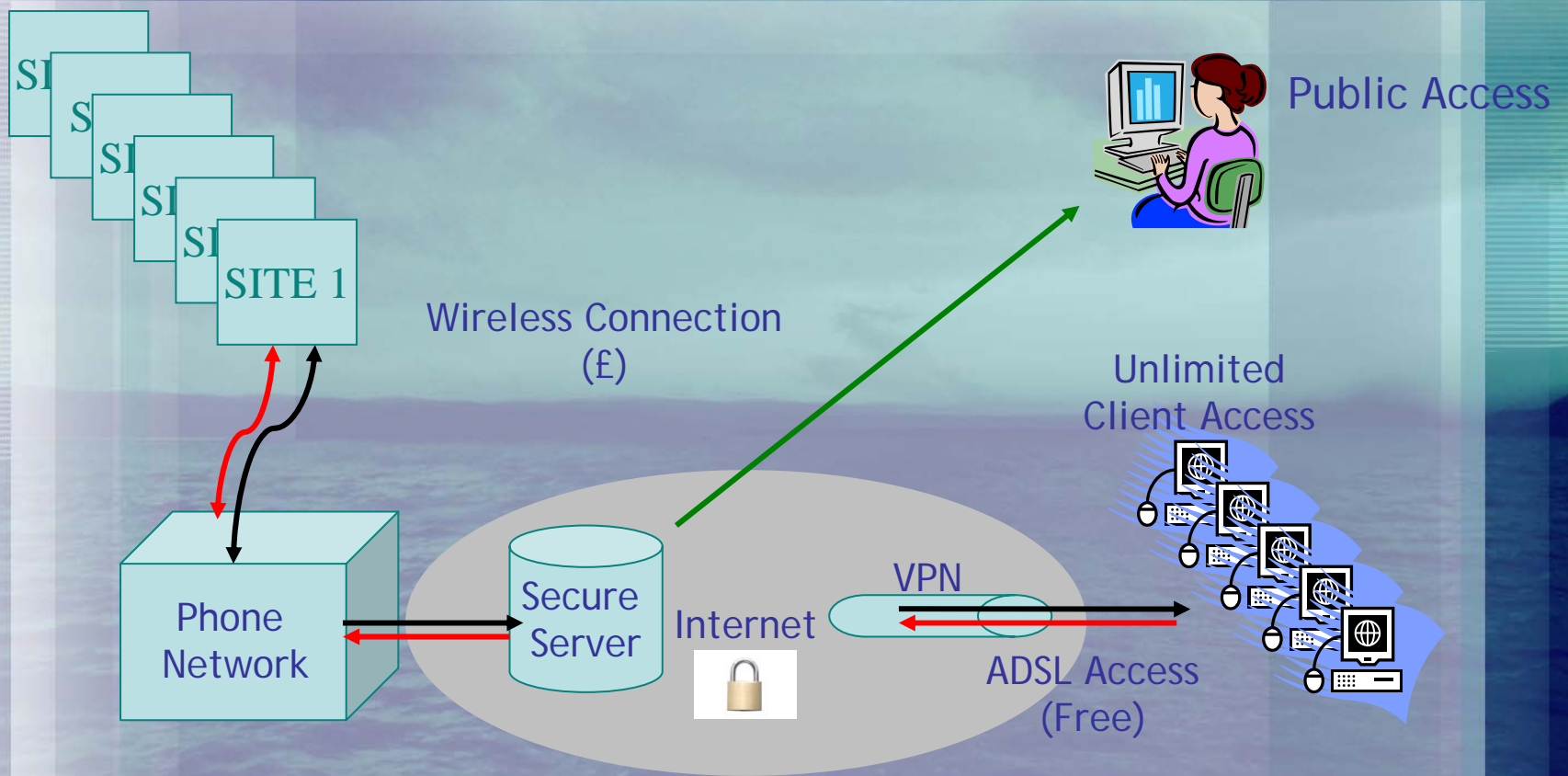
- AQ Web allows **existing** AQ stations to be updated to internet capability.
- Web Logger takes analogue or digital from **ANY** monitor
- Transmits data to **Web Server**
- Client access to web server at **Internet speed**
- **WEB Publication** engine on server

How Does It Work ?

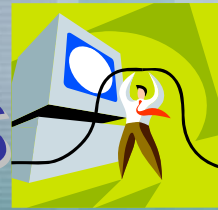


- AQ Web Logger communicates with station monitors and transmits to web server using GPRS or 3G (UMTS)
- Web server stores and backs up data in SQL database
- Client PC(s) are updated automatically with data at regular intervals (15 minutes)
- Web pages update automatically
- Optional reports package provides “on demand” reports as required

Schematic



AQ Web - Pilot Limitations



- Many sites were limited to analogue connections to existing logging systems in place;
 - No calibration control possible
 - No diagnostics or alerts possible
 - Less elegant connection wiring at site
- Prototype Webloggers used in pilot
 - Limited user interface
 - No service switches
 - No local calibration control
 - Commercial versions now available

Reliability

- Some data lost last week due to central server change over.
 - Dundee 1 day
 - Glasgow, Aberdeen 3 days
 - Grangemouth < 1day
- Otherwise >99% capture during pilot
- No hardware failures
- No communications failures
 - After initial network choices

AQ Web - Server Database



- AQ Web server manages communication with all AQ Web loggers in the network
- Routes remote control and diagnostics commands to each site
- Central database of all AQ data
 - Available as CSV over email or FTP server
- Handles AQ Web Reporter queries
- Serves AQ Web Website Pages
- Provides long term archive of AQ Data
- Daily back up of ALL network data



Live Demo

Cupar, Bonnygate



AQ Web - Web Pages



- ✓ Configurable web publication of air quality data for local authorities
- ✓ Compliments the national archive site
- ✓ No special skills required
- ✓ YOU have editorial control
- ✓ Safeguards against 'bad' data
- ✓ Automatic and low cost
 - ✓ (time and money)

Pilot Sites - Feedback

- Opening communication ports
 - IT issues mostly resolved
- Client Software
 - LA's should note that pilot software had limited functionality in comparison to full product
- Reports Software
 - Not made available during pilot to LA's
- Web Page Publisher
 - Not fully utilised by many LA's YET!

AQ Web



Today's
wireless communications
and internet technology
for
Tomorrows
Air Quality Monitoring

Thank You !

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