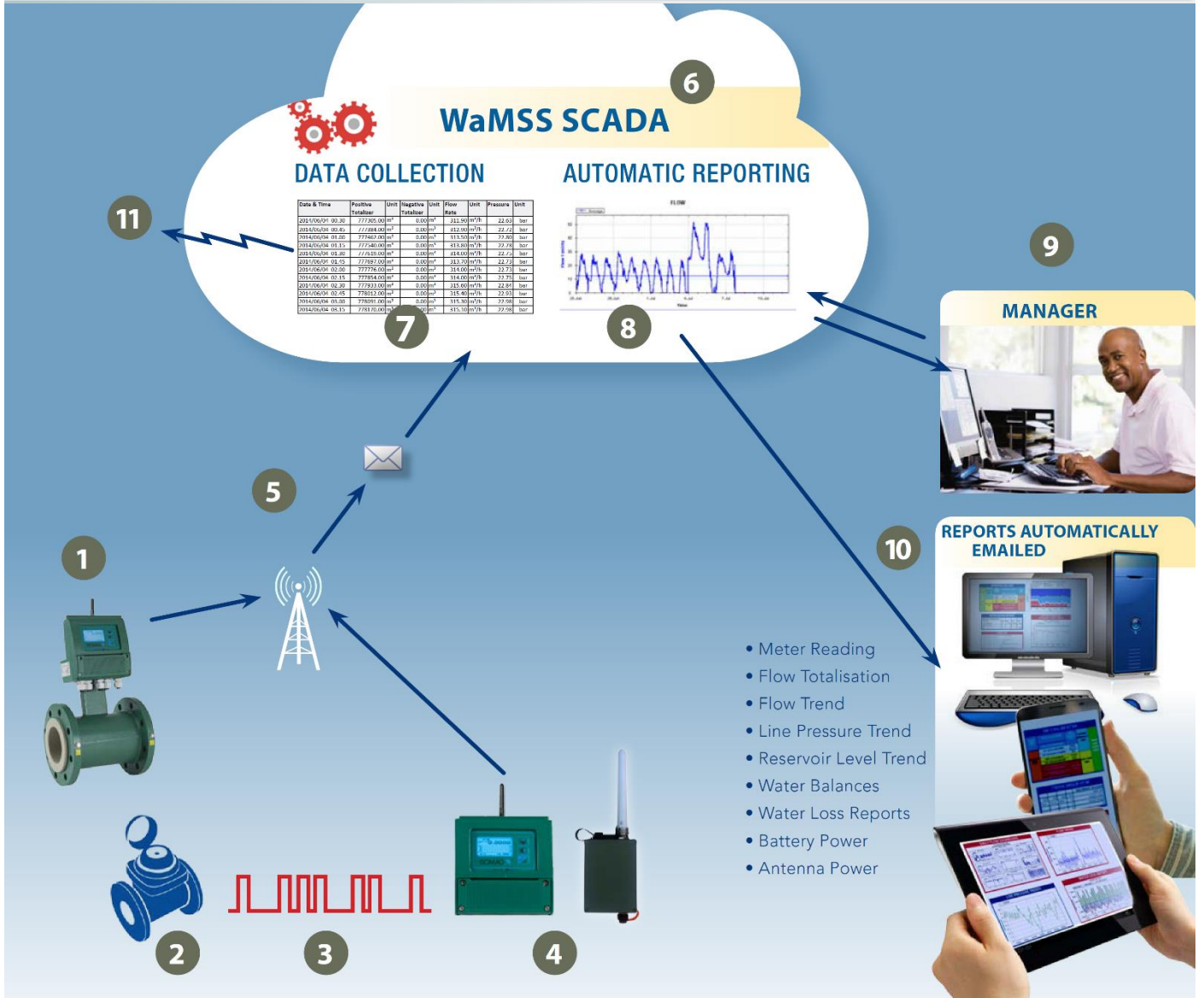


Water Management System Architecture - including AMR (Automatic Meter Reading)



- 1 Isoil battery powered magnetic flow meter with built-in GPRS data transmission.
- 2 Mechanical flow meter.
- 3 Pulses from mechanical flow meter.
- 4 Smart loggers with built-in GPRS data transmission for:
 - Mechanical Flow Meters
 - Line Pressure
 - Reservoir Level
 - Analyzers
 - Other sensors
- 5 Data transmission via GPRS on the GSM network.
- 6 WaMSS Scada system. Web based.
- 7 Data from field sensors are imported into an SQL database.
- 8 Reports are automatically compiled and emailed according to user's schedule.
- 9 Management has key information at their finertips and can compile adhoc reports.
- 10 Users receive regular alarms and regular reports so they can take action quickly.
- 11 Data Relay to other applications.

A reliable and comprehensive Water Management System is required to optimize our Water resources for municipalities and Water Boards. Focus areas are: Flow Monitoring; AMR (Automatic Meter Reading); Water Quality Monitoring; Water Loss Management; Leak Detection; Leak Prevention; Smart Loggers including Flow Logging; Reservoir Level Monitoring and Management; Water Balances.

The N&Z Water Management System provides a fully integrated turnkey solution. There are many local components and the system is tried and tested in South African conditions, operating at more than 30 different clients throughout Southern Africa.

The central point is the locally developed WaMSS Scada. This web-based software system has two components. The data collection application harvests the data from remote sensors and packs it into a SQL database. The reporting system automatically compiles reports to user specification to the user's email list. Management can also open these adhoc reports at any time.

The WaMSS is a standard structure for Water Management Applications but is extremely flexible within that structure. In that way we achieve a very fast to deploy low-cost system which is easily customised within the standard environment.

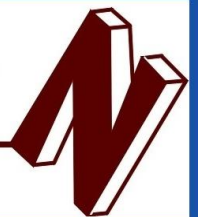
Functions available are:

- Meter reading
- Flow Totalization
- Flow Trend
- Line Pressure Trend
- Reservoir Level Trend
- Water Balances
- Water Loss Reports
- Battery Power
- Antenna Power

Virtually any sensor can be integrated into the automated Management System. This includes conventional flow meters and water quality monitors when partnered with Smart loggers; battery powered mag flow meters with Smart capability; reservoir level sensors with Smart loggers, etc.

The N&Z Water Management System delivers a very economical and flexible system which can be rolled out within days.

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