# Municipal SCADA System

This software provides functionality to monitor the water system via Scadapack RTUs, have ability to manage the process, checking for alarm conditions, ability to view real time data and archived data on the Trending screen, printing various reports. The software shall be developed and configured using Parijat SCADA development system which is Microsoft VB6 based non-proprietary system.
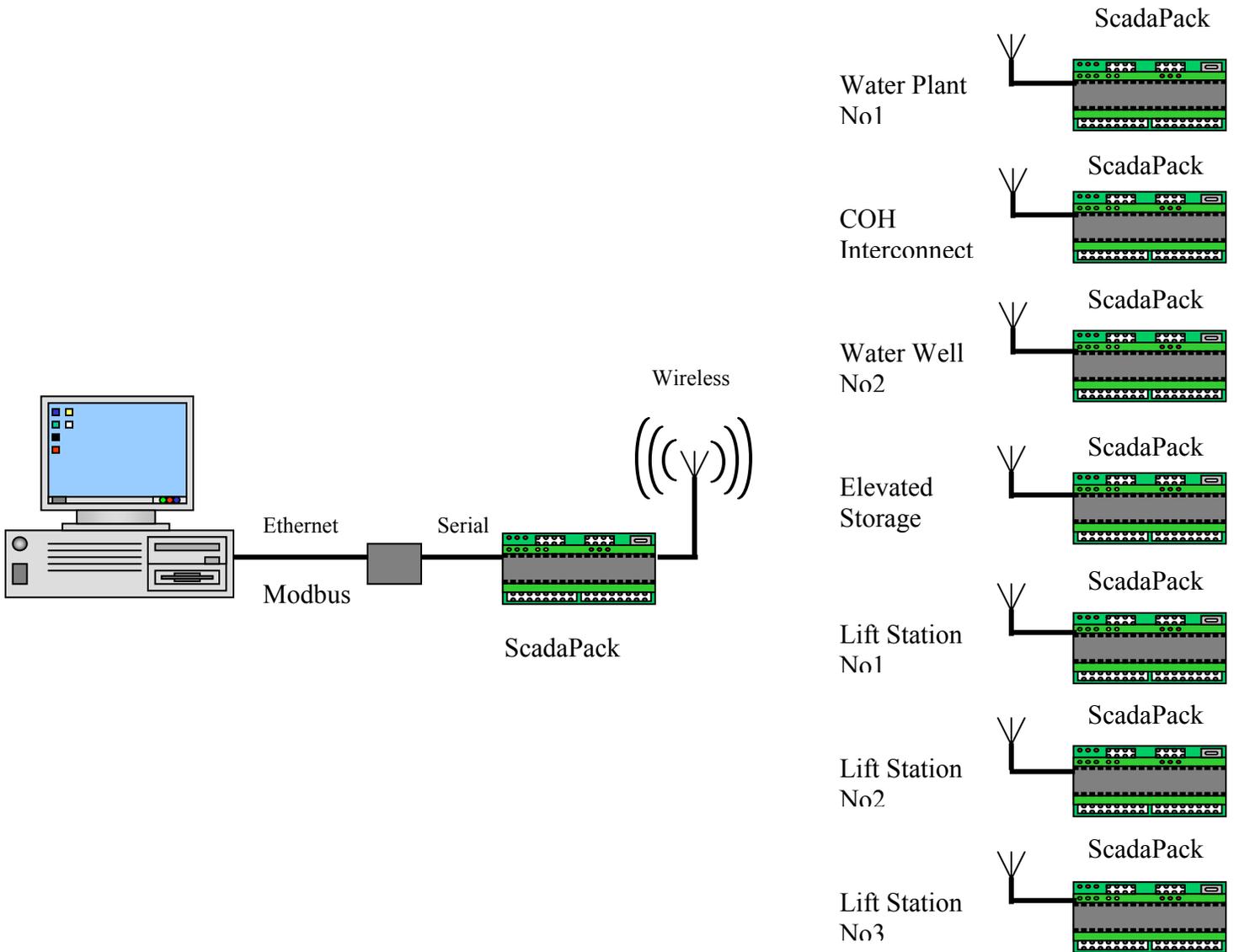
SYSTEM ARCHITECHTURE

The system includes a stand alone PC with Ethernet communication card, which will be connected to the SCADAPACK Ethernet gateway. The Ethernet gateway will be connected to ScadaPack controller with serial connection. The Scadapack controller is attached to antenna which will transmit and receive data to/from all 7 Scadapack non-intelligent controllers.

GRAPHIC DISPLAYS

Water Plan 1 and Water Plant 2

This display provide overall picture of clean water system which includes Ground Storage Tanks, Booster Pumps, Water Well #1, Water Well #2, Hydro Pressure Tank, Elevated Tank, Various Valves. Shown labels represent actual values for System Pressure, Flow Rates, Chlorine Values, Levels, and bit statuses for variety of alarm conditions.
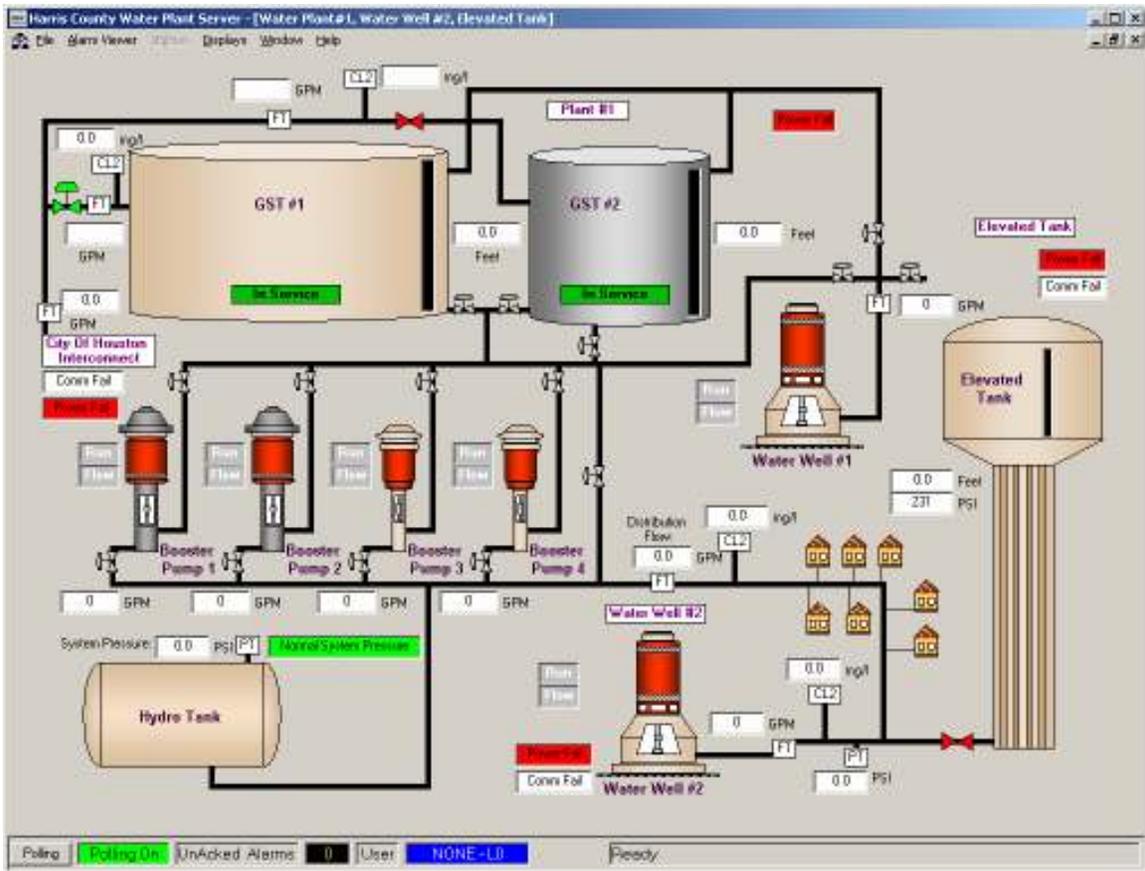
Lift Station Plan 1 and Water Plant 2

This display provide overall picture of Lift Stations water system which includes Pumps, Check Valves, Ground Storage Tanks, Booster Pumps, Water Well #1, Water Well #2, Hydro Pressure Tank, Elevated Tank, Various Valves. Shown labels represent actual values for System Pressure, Flow Rates, Chlorine Values, Levels, and bit statuses for variety of alarm conditions.
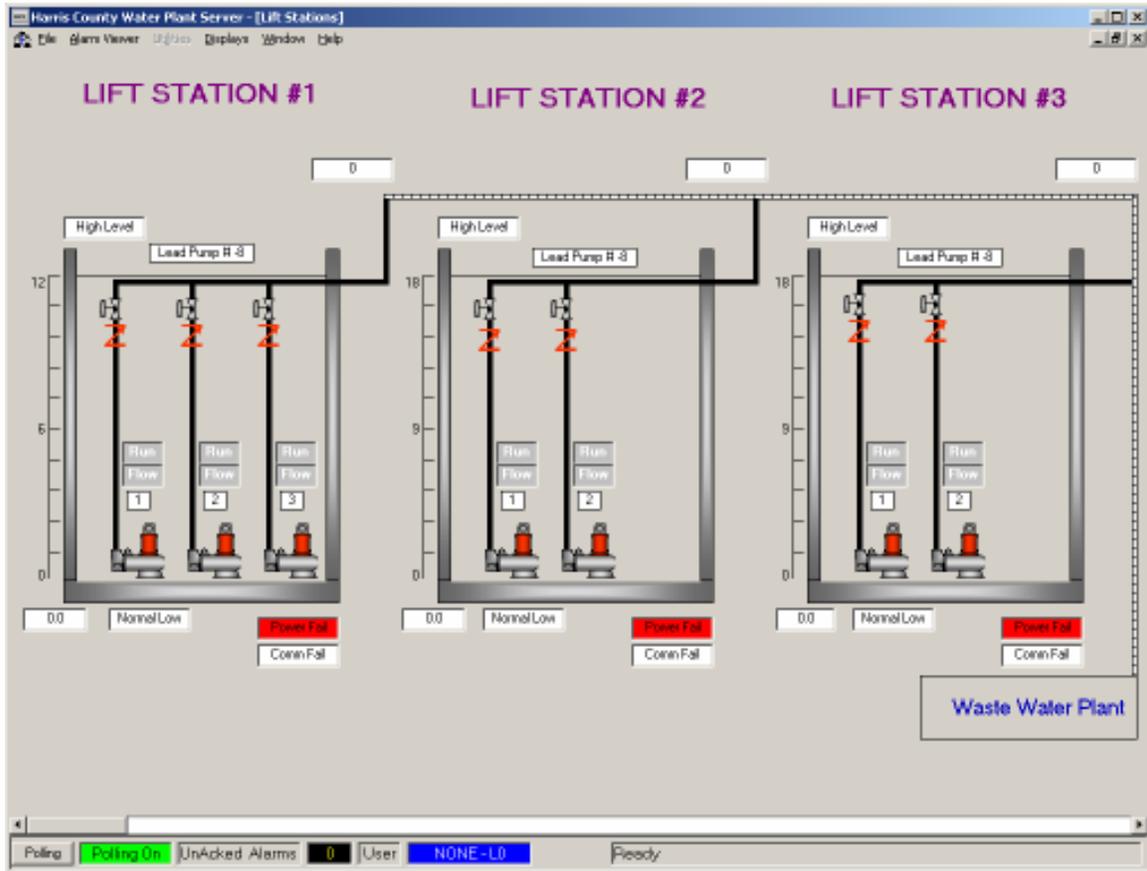
Lift Station Plan 1 and Water Plant 2

Communication Display provides you with communication information for every PLC. Also, it provides you some details for every RTU such as Clock time, Parameters, Comm Diagnostics.

Equipment Details

This screen provide more details on Pumps and valves such as Run times, Set points, Alarm conditions, Run status, and ability to control equipment.

Communication Information Display

This display shows current comm. settings and status.

Error Messenger

This window display errors that occurred during the process. For example:
Communication Error.
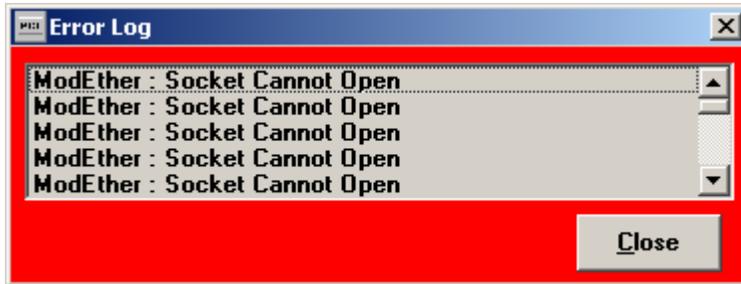
Report Configuration

This screen provides you select data you want to put on report. You can select different
locations and different period of time to retrieve data.

<u>Report</u>

Report displaying data selected from report configuration screen. This report can be printed or saved as .html or .txt file.

<u>Alarm Viwer</u>

This screen will show all alarm conditions which are active or happened before. You can acknowledge alarms.
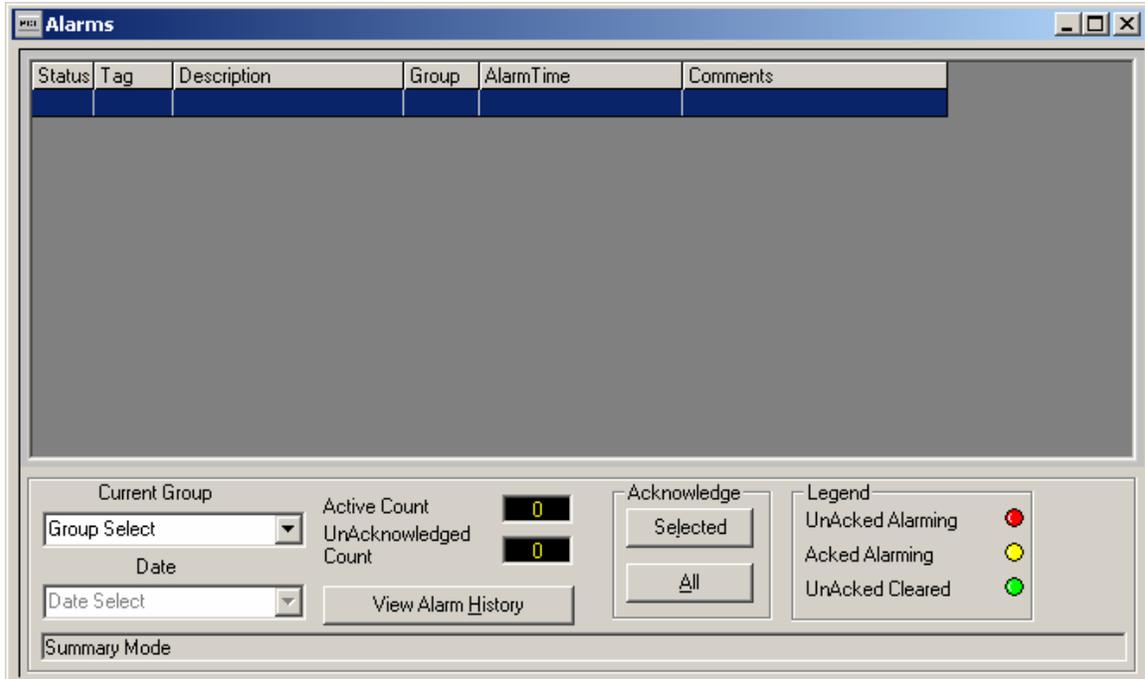
Trending

Trending screen will show real time or historic data for selected points. You can specify specific points from the list to monitor, and assign different colors to the points. You can resize scaling.