PLUS Automatic Meter Reading

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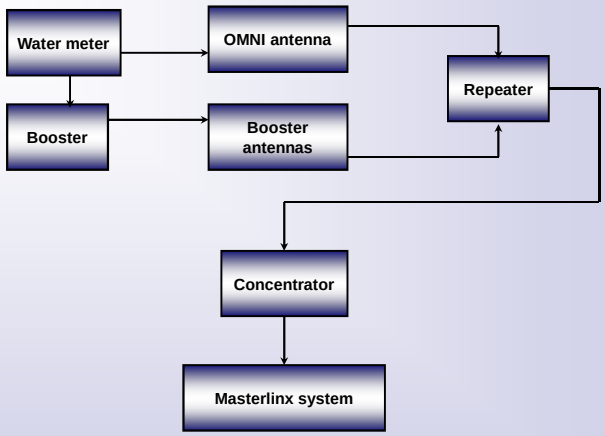


Overview of the PLUS AMR System

Radio Meters

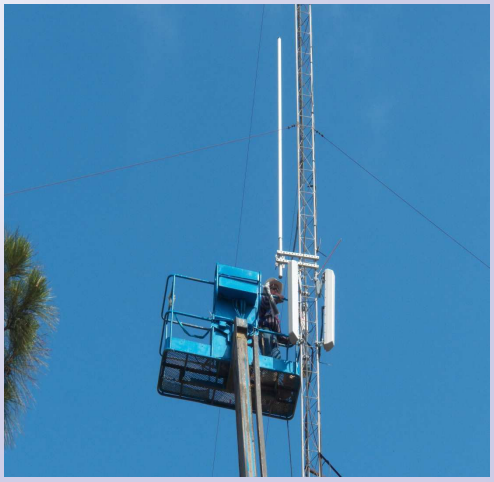
- Majority installed in 2006
- Vendor: Municipal Water Works
  Supplier: Master Meter
- Meters are installed in a pit serving either one home or two homes.
- Has a 10 year 100% warranty
- The pit lids are often damaged and must be replaced promptly to avoid homeowners covering the box with cooking woks or other improvisations.
- Transmits meter register data to the OMNI antenna at a set time interval.

Boosters (FixedLinx Booster)

- The first 10 installed in June, 2012.
- Vendor: Municipal Water Works
  Supplier: Master Meter
- Installed on top of pit and can serve a second meter located within 6.5 feet.
- Must be activated on the spot by a special device, and can be reinstalled somewhere else using the same activation procedure.
- They have a 10 year 100% battery warranty if default settings are kept.
- Default settings: transmission to booster antennas every
  4 hours if connected to 1 meter,
  6 hours if connected to 2 meters.

OMNI Antenna (10017-8 Super StationMaster)

- Installed May 9th, 2012
- Vendor: Municipal Water Works Installer: Master Meter Supplier: Radio Frequency Systems
- Installed on existing tower next to PLUS wastewater treatment plant.
- Horizontal beam width 360˚, operates within the frequency band 900-935 MHz
- As of July 2012, approximately 287 meters could be received daily by this antenna.



Booster Antennas (WPA-800120-4CF-EDIN-X)

- Three booster antennas were installed May 7th,2012.
- Vendor: Municipal Water Works
  Installer: Master Meter
  Supplier: Amphenol Antenna Solutions
- Installed on the same antenna tower as the OMNI antenna.
- They have a horizontal beam width of 120˚ and operate in the frequency band 806-960 MHz

Repeater System

- Installed May 11, 2012
- Vendor: Municipal Water Works Installer: Master Meter Components Supplier: Several
- Collects data from the four antennas, encrypts the data and sends it to the concentrator
- Installed in the shed under the antenna tower
- Ports for the booster antennas are named mcmmr # 1-3, the OMNI is named mcmmr # 4
- It has a range of 1-2 miles and the IP-address: 166.130.5.242.

Concentrator

- Installed August, 2012
- Vendor: Municipal Water Works Supplier: Master Meter
- Collects data received by the repeater(s)
- Resides at the MasterLinx server facility

MasterLinx Software

- Software set-up and training accomplished August 8-10, 2012
- Vendor: Municipal Water Works
  Supplier: Master Meter
- Sessions video recorded by Southern DataStream.
- Trainer: John Lewis
  Trainees: Yvonne Cayce, Michal Fidler, &
  John Capece

Contact Persons

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