IQ Server/Client Satellite Radio Configuration & Installation

1 Required Equipment
   1. Two models of radios can be used for IQ Server/Client Satellite secondary communication:
      a. 120VAC Metal Case Radio
      b. 120VAC Plastic Case Radio

2 Rain+Bird
   Low Power Mode Settings Not Available
   Hope Time Not Available
   CTS 1 ms
   MODE X
   Receive Data Holdover RXD 0 ms
   Alarm Sense Alarm active HI
   Alarm Mask MASK: FFFF FFFF
   BAUD 38400 8N1
   Power Level PWR 30 dBm

3 MDS TransNET Radio Configuration Utility
   (1) Download, extract, and install MDS-Toolbox installation software
   a. Download from www.rainbird.com/IQ6x
   b. Extract all files
   c. Double click on the Setup file to launch the Toolbox installer
   d. Select MDS TransNET Configuration option only from the menu, then install
   e. Start the TransNET Configuration Program
   f. Click on CommPort drop down menu and select Setup
   g. Select the COM Port the Programming Cable is connect to, then press OK
   h. A connection to the radio will be attempted automatically

4 The current radio configuration will be displayed on the six tabs
   Click on the tab and individual settings field to open a dialog box where you can change the displayed values to match those shown in the following settings table
   Example: Click on the Radio Mode field in the Radio Settings 1 tab and enter the radio Mode based on the type of IQ Satellite, then press OK
   M: Master Radio of the IQ Server Satellite
   R: Remote Radio of an IQ Satellites communicating directly with the Master Radio
   X: Extension (Repeater) Radio at IQ Client Satellites repeating the network signal to downstream Client Satellites that cannot communicate directly with the Master Radio

5 Master Radio Settings for the IQ Server Satellite
   Radio Network Addressing
   XADDR: Extension Address:
   A unique radio network address (0-31) assigned to the Master Radio and all Extension (Repeater) Radios in this network.
   XPRI: Primary Extension Address:
   The radio network address of the upstream Master or Extension (Repeater) Radio to which this radio should communicate. XPRI is the XADDR of the upstream radio.

6 Remote Radio Settings for IQ Client Satellites
   Radio Network Addressing
   XADDR: Extension Address:
   A unique radio network address (0-31) assigned to the Master Radio and all Extension (Repeater) Radios in this network.
   XPRI: Primary Extension Address:
   The radio network address of the upstream Master or Extension (Repeater) Radio to which this radio should communicate. XPRI is the XADDR of the upstream radio.

7 Extension Radio Configuration for IQ Client Satellites
   Radio Network Addressing
   XADDR: Extension Address:
   A unique radio network address (0-31) assigned to the Master Radio and all Extension (Repeater) Radios in this network.
   XPRI: Primary Extension Address:
   The radio network address of the upstream Master or Extension (Repeater) Radio to which this radio should communicate. XPRI is the XADDR of the upstream radio.

8 Extension Radio Settings for IQ Client Satellites
   NOTE: Highlighted settings are different than the default settings

9 Check Radio Signal Strength
   Signal strength can be displayed for a Remote Radio or Extension Radio by clicking on the RSSI (Receive Signal Strength Indicator) tab. RSSI cannot be read at the Master Radio.
   In the MDS TransNET Radio Configuration window, click on the RSSI button. A dialog box showing RSSI value will be displayed.
   • The scale should display a minimum of -90 dBm and a maximum of -5 dBm.
   • To increase signal strength, use an antenna with a higher dB gain and/or increase the height.
   • To decrease signal strength, use an attenuator or decrease the power setting in the radio.

10 Radio Installation
   Mount the radio in the pedestal for permanent installation. Use the GSP-xxFT-LMR400 Antenna Cable; Specify cable length and connectors (N-M or -F x TNC-M)
   GSP-ODA2 23" Pole Mount 3 N Female
   GSP-FM2 96" Antenna Clamp, Double
   GSP-xxFT-LMR400 50W Coaxial Cable with connectors
   Owner’s Name
   Telephone
   (800) 254-0692
   Email
   Install the radio with the connectors facing down. Include a dip loop on all cables.