



# XetaWave Data Concentrator

The XetaWave Data Concentrator (**XetaDC**) is a Modbus polling engine and aggregator that also supports MQ Telemetry Transport (**MQTT**). The **XetaDC** is a free firmware application that is available for all XetaWave software defined radios (SDR) as well as the I/O Expander and **XetaTS** Terminal Server.

The **XetaDC** allows for wired or wireless polling of serial and Ethernet/IP fielded devices using Modbus RTU or Modbus TCP. The **XetaDC** can also poll the internal IO and statistics of a XetaWave software defined radio (SDR). Operational and diagnostics data is supplied using either Modbus or MQTT resulting in less network traffic and dramatically simpler SCADA polling system configuration.

RS-232/422/485 are still commonly used. The **XetaDC** adds serial communication interfaces and provides Ethernet/IP communications for management.

**Reduce Network Traffic & Simplify SCADA Communications** Natural gas compressors and batteries are common points where communication networks converge in oil and gas. A backhaul network connects the gas compressor or battery to the SCADA polling system. A field network connects the compressor or battery to field equipment. For each compressor or battery there may be hundreds of field equipment including I/O radios, PLCs, RTUs, flow meters, and various sensors that must be monitored.

A **XetaDC** located at the compressor simplifies SCADA communications by acting as a proxy for field devices. It collects important data from field devices over wired or wireless links by Ethernet, serial, or both. The **XetaDC** then organizes the data and distributes it to the SCADA polling host by Modbus or MQTT. The SCADA system connects to just the device running the **XetaDC**. It is no longer necessary for the SCADA polling system to query every device individually by IP address, TCP/UDP port, terminal server, serial port, and/or Modbus address. *The result...* the **XetaDC** significantly reduces network traffic and dramatically simplifies SCADA polling system configuration.

**Contact XetaWave for additional information & to download the firmware.**