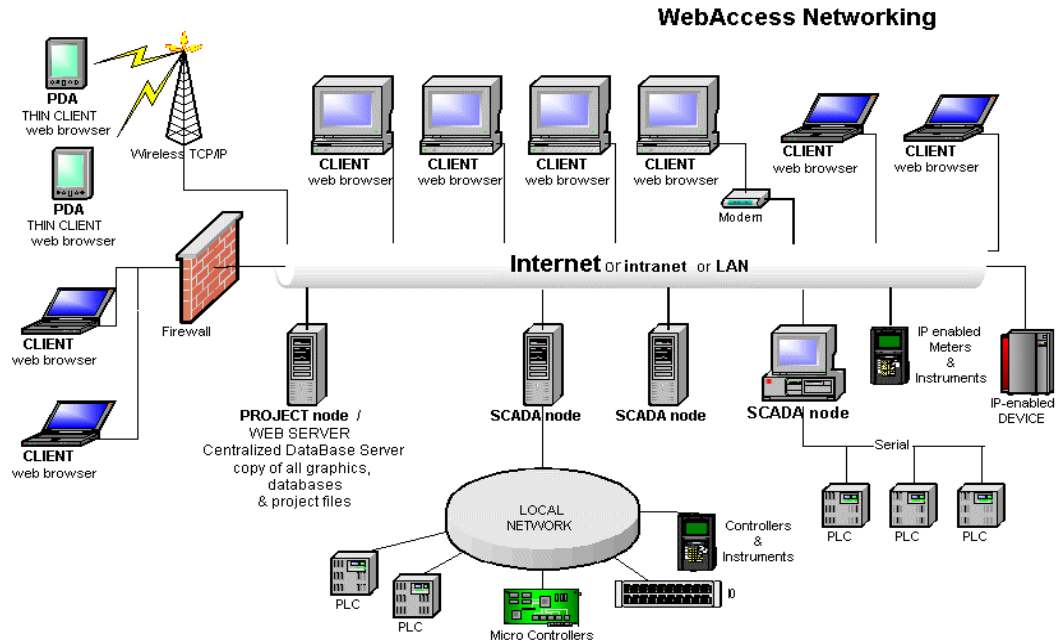


WebAccess Network Architecture

The first fully Web browser-based software package for HMI and SCADA.

Using a standard Web browser, operators and users can view and control manufacturing facilities, industrial process plants, and building automation systems.

View, Control, Configure and Administer Software Remotely - WebAccess enables engineers, integrators and vendors with the ability to support their systems remotely over an intranet or the Internet using an ordinary web browser.



The **SCADA Nodes** communicate with Programmable Logic Controllers (PLC), Controllers, IO, Direct Digital Control systems (DDC) and Distributed Control Systems (DCS) via Serial, Ethernet, OPC and proprietary communications. Each SCADA node has its own run-time database, communication drivers and graphics. SCADA nodes run independently of any other node. Redundant SCADA Nodes and redundant communications paths are easily implemented.

The **Project Node** is a centralized database server. It can be combined with the SCADA node in a stand-alone system. Remote Database Configuration and Graphics Building using a web browser occur first on the Project Node. The runtime database and graphics are then downloaded to the SCADA Node(s). The Project Node is also a Web Server.

The full-animation **Client** uses an ActiveX control with Internet Explorer 6.0 Web browser to view and change real-time data. Clients connect first to the Project

Node to get the address of the SCADA node. Clients then communicate directly with the SCADA node using proprietary communications using TCP/IP.

The **Thin Client** interface supplies static snapshots of graphics as GIFs and JPEGs. No plug-in or ActiveX control is required. The Thin Client is intended for PDAs, and Pocket PCs, but all ASP enabled Web browsers can view graphics. A text-type interface is used to view and change real-time data. Thin Clients communicate directly to the Project Node only.

There is no limit to the number of SCADA nodes or Clients in a network. Typically there is only one Project Node. A TCP/IP based **Network** supplies the connection between the Nodes and Clients including Local Area Networks, Ethernet LANs, corporate intranets, the Internet, and dial-up connections. WebAccess supports connections via firewalls, VPNs, Proxy Servers, public and private networks.

BroadWin Technology, Inc.
San Ramon, California USA